

Lasco de Gama:

10-95

THE

# PERIPLUS



OF THE

# $E R \Upsilon T H R E A N S E A.$

PART THE FIRST.

CONTAINING,
AN ACCOUNT OF

### THE NAVIGATION OF THE ANCIENTS,

FROM THE SEA OF SUEZ TO THE COAST OF ZANGUEBAR.

WITH DISSERTATIONS.

By WILLIAM VINCENT, D.D.

The touther

Բաշրջանաձ que inflitteram magnum opus eft, et hercule res funt difficiles ad explicandum et կատմել, nec tam poffunt ա՛ժ-գայանիանակ այաստեցիան այաստեցիան Cic. ao Arricus, ib. ii. ep. 6.

LONDON:

Printed by A. Straham, Printers Serger; FOR T. CADELL JUN. AND W. DAVIES IN THE STRAND. 1800.



# THE KING.

SIR,

 $\mathbf{W}_{ ext{HILE}}$  we contemplate the maritime power of Great Britain, raifed under the aupices of Your Majesty to a pro-eminence unexampled in the annals of mankind; we view with equal pleafure those not less useful though ess splendid efforts, which, under Your Maesty's immediate patronage and direction, have advanced the limits of discovery to that

A boundary boundary which Nature has fixed as a barrier to the enterprize of man.

IT is due to the confummate abilities of the most experienced commanders, exercised under this patronage and direction, that a folution has been given to three of the greatest problems that concern the world which we inhabit; for it is now determined by a fuccession of voyages commenced and profecuted by Your Majesty's command, that the Entrance into the Pacifick Ocean by a paffage either on the North West or North East is impracticable, and that the Existence of a great Southern Continent had nothing but theory for its fupport. It has likewise been ascertained that the longest voyages are not detrimental to

life or health; and it has been proved by the execution of Your Majesty's commands, that distant nations may be visited, not for the purpose of subjugation, but for the interchange of mutual benefits, and for promoting the general intercourse of mankind.

In the profecution of these great designs, if we have seen science advancing to perfection, it is still an object of interesting curiosity to turn our view back from the result to the origin, to trace navigation to its source, and discovery to its commencement.

This is the defign of the Work which I have now the honour to present to Your

A 2 Majesty

Majesty for protection; its merits must be left to future decision; but it is at least a tribute of gratitude offered to the patron of every science, in which the interests of navigation and geography are concerned. I have the honour to subscribe myself.

YOUR MAJESTY's

Moft faithful

and most devoted : Subject and Servant,

WILLIAM VINCENT.

## PREFACE.

Much disquisition upon a brief narrative is the professed design of the following work; a work which has encreased under my hands far beyond my calculation or design, and which I now publish incomplete, because, from the various interruptions of an active life, whatever may be my wish and object, I cannot pledge myself to bring it to a conclusion.

SUCH encouragement as I had reason to expect has not been wanting to my former Labours. Popular reputation I neither courted or declined; emolument I neither coveted or disclaimed; but if the approbation of many excellent and learned men be an object of ambition, I have had my reward.

To the censures which I incurred, I am not insensible; but if censure be not illiberal it is the part of prudence to turn it rather to the purpose of correction than offence. One charge only I shall notice; and that.

that, not because it was unjust, but because it originated in a misapprehension of my design. In the few inftances where I ventured upon etymology, I did not expect the feverity which I have experienced. I had disclaimed all pretensions to oriental learning; I had hazarded my own conjectures, in order to excite attention and curiofity in others; I had never refted a fingle deduction of importance on any imaginary interpretation of my own, and still I have had the mortification to find that all my precautions were ineffectual. I thought that in treating of oriental questions, the conjectures of a classical man, even if erroneous, might have been pardonable; but I was miftaken: I have feen my error, and I shall avoid a repetition of the offence. Nothing etymological will occur in the following pages, but what will be proposed merely as matter of inquiry, or what can be referred to oriental authority for fupport.

In the Voyage of Nearchus I traced the intercourse with India to its source, a subject, as it has been called, "barren, but important:" and I now prosecute the same inquiry down to its completion, by the discoveries

of Gama, under difficulties still more discouraging to an Author. A work, relieved neither by the incidents of a voyage, or the occurrences of a journal, varied by no personal dangers or escapes, animated by no personal exertion or ability, however it may abound in information, can presume but little upon its powers of attraction. Fidelity, labour, and research, it is true, have their share of merit; but the approbation which they elaim must be derived from those who can appreciate the value of talents which, though common to all, are exercised only by the sew.

Refearch, indeed, affords a pleasure peculiar to itself; it presents an idea of discovery to the imagination of the inquirer; an intellectual pleasure, in which he flatters himself others will be desirous to participate; and which, if he can communicate with fatisfaction proportionate to his own, publication is not merely the indulgence of a propensity, but the exercise of a social duty.

T HAVE to return my thanks a fecond time to Mr. Dalrymple, for his kindness in suffering me to copy two

of his chafts; to Sir William Oufeley, for favouring me with the sheets of Ebn Haukel as they came from the press; to Dr. Charles Burney of Greenwich, and to Captain Francklin of the Bengal Establishment. I have likewise been again more particularly obliged to the Bishop of Rochester for his assistance in correcting the position of Meroè; on which subject, more probably will appear upon a future occasion.

### PERIPLUS

OF THE

### ERYTHREAN SEA.

### BOOK I.

### PRELIMINARY DISQUISITIONS.

- Introduction. II. Account of the Periplus. III. Homer. —
   IV. Herdotus. V. Cilfias. VI. Iambilus. VII. Agastarchides:
   — VIII. Hippalus. IX. Age of the Periplus. X. Intercourse with India.
- I. AVIGATION, perfected as it is at the prefent hour, opens all the maritime regions of the world to the knowledge of mankind; but in the early ages, personal intercourse was impracticable: the communication by sea was unexplored, and travelling by land was precluded by infecurity. The native commodities of one climate passed into another by intermediate agents, who were interested in little beyond the profits of the transit; and nations in a different hemisphere were known respectively, not by their history, but their produce.

### PRELIMINARY DISQUISITIONS.

Such was the fituation of Europe in regard to India; the produce of each was conveyed to the other by channels which were unknown to both; and the communication by land through Tattary or Perfia, was as little understood, as the intercourse by the Indian Ocean. That both existed in some sense or other is undensable; for the most ancient of all histories mentions commodities which are the native produce of India, and which if they were known, of necessity must have been conveyed. What the means of conveyance were by land, or on the north, is a subject which does not enter into the plan of the following work; but the transport by sea is a consideration of all others the most important; it is dependent on a discovery common to all the nations of the world: the dominion of the sea may pass from one people to another, but the communication itself is opened once for all; it can never be that.

That the Arabians were the first navigators of the Indian Ocean, and the first carriers of Indian produce, is evident from all history, as far as history goes back; and antecedent to history, from analogy, from necessity, and from local situation; out of their hands this commerce was transferred to the Greeks of Egypt, and to the Romans' when masters of that country; upon the decline of the Roman power it reverted to the Arabians, and with them it would have remained, if no Gama had arisen to effect a change in the whole commercial system of the world at large.

It is the interval between the voyage of Nearchus and the difcoveries of the Portuguese which I intend to examine in the follow-

Perhaps never to the Romans, but to the Greeks of Egypt under the power of the Romans.

ing work; the basis which I assume is the Periplûs of the Erythrêan Sea; and in commenting on this work, an opportunity will be given to introduce all the particulars connected with the general subject.

### ACCOUNT OF THE PERIPLUS.

II. THE Periplûs of the Erythrêan Sea is the title prefixed to a work which contains the beft account of the commerce carried on from the Red Sea and the coaft of Africa to the Eaft Indies, during the time that Egypt was a province of the Roman empire.

This work was first edited from the press of Froben at falle, in 1533, with a presstory epistle by Gelenius; but from what manuscript I have never been able to discover; neither is it known whether any manuscript of it is now in existence. The edition of Stuckius at Zurich, in 1577, and Hudson in 1698, at Oxford, are both from the printed copy, which is notoriously incorrect, and their emendations remove few of the material difficulties 's besides these, there is a translation in the collection of Ramusio, saithful indeed, as all his translations are, but without any attempt to amend the text, or any comment to explain it; he has prefixed a discourse however of considerable merit and much learning, which I have made use of wherever it could be of service, as I have also of the commentaries of Stuckius, Hudson, and Dodwell; but the author with whom I am most in harmony upon the whole,

a The two inexplicable difficulties are, Egrindoquenebrine, p. 9. and and Ordine be stree nigo-

is Vossius, who in his edition of Pomponius Mela has touched upon fome of these points, and I wish we had the ground of his opinion in detail.

The Erythrêan Sea is an appellation given in the age of the author to the whole expanse of ocean reaching from the coast of Africa to the utmost boundary of ancient knowledge on the east: an appellation, in all appearance, deduced from their entranceinto it by the ftraits of the Red Sea, styled Erythra' by the Greeks, and not excluding the gulph of Persia, to which the fabulous history of a king Erythras is more peculiarly appropriate.

Who the author was, is by no means evident, but certainly not Arrin of Nicomedia, who wrote the hiftory of Alexander, whose writings have been the fubject of my meditations for many years. and whose name I should have been happy to prefix to the present work; HE was a man of eminence by birth, rank, talents, and education, while the author before us has none of these qualities to boaft: but veracity is a recommendation which will compensate for deficiency in any other respect: this praise is indisputably hisdue, and to display this in all its parts is the principal merit of the commentary I have undertaken.

pofing Edom, Red, to be the true etymology, worthy of notice. the fea of Edom, or Efau, the Idumean Sea.

3 We are warned against the connection of Agatharchides fays, it is not from the colour Erythra with Erythreau by Agatharchides, of the lea, for it is not red, to who and to wellp. 4. Geog. Min. Hudion, Saharras Egobja's, parte res ancon annagentales, blibe (a' yas irn he fave, fignifies the Red Sea; Sakarras Egeles, iguiça); this is well known, but it ought to be the fea of Erythras, is the ocean which takes gemembered that Im Suph of the Hebrews is its name from king Erythra, according to the the weedy fea; and Lobo afferts, that Sufo Perfian account. Salmanus and Hudfon give is a name fill applied to a weed in this fea ufed little credit to Agatharchides for this intel- for dyeing red; this is probably indeed not ligence. See note, ibid: both agree in fup- the fource of the ctymology, but it is not un-

Arrian of Nicomedia has left us the Paraplus of Nearchus, and the Periplûs of the Euxine Sea, and was a name of celebrity to the early editors of Greek manufcripts, long before the work now under contemplation was known; it is not impossible, therefore, if the Periplûs of the Erythrêan Sea was found anonymous, that it was attributed to an author whose name on fimilar subjects was familiar. But if Arrian be the real name of the author now under contemplation, and not fictitious, he appears from internal evidence to have been a Greek, a native of Egypt, or a relident in that country, and a merchant of Alexandria: he manifeltly failed on board the fleet from Egypt, as far as the gulph of Cambay, if not farther; and, from circumstances that will appear hereafter, is prior to Arrian of Nicomêdia by little less than a century. "His work has long been appreciated by geographers, and is worthy of high estimation as far as the author can be supposed personally to have vifited the countries he defcribes; fome fcattered lights also occur even in regard to the most distant regions of the east, which are valuable as exhibiting the first dawn of information upon the fubiect.

Of this work no adequate idea could be formed by a translation; but a comparison of its contents with the knowledge of India, which we have obtained since Gama burst the barrier of discovery, cannot but be acceptable to those who value geography as a science, or delight in it as a picture of the world.

The Periplûs itself is divided into two diffinet parts, one comprehending the coast of Africa from Myos Hormus to Rhapta; the other, commencing from the fame point, includes the coast of Arabia, both within the Red Sea and on the ocean; and then

paffing

maffing over to Guzerat runs down the coast of Malabar to Cevlon, It is the first part, containing the account of Africa, which I now present to the public; a work which, perhaps, I ought never to have undertaken, but which I hope to complete with the addition of the oriental part, (if bleffed with a continuance of life and health.) by devoting to this purpose the few intervals which can be spared from the more important duties in which I am engaged. The whole will be comprehended in four books; the first confisting of preliminary matter, and the other three allotted respectively to Africa, Arabia, and India, the three different countries which form the subject matter of the Periplus itself. In the execution of this defign I shall encroach but little on the ground already occupied by Doctor Robertson; but to Harris, and his learned editor Doctor Campbell, I have many obligations. I follow the fame arrangement in my confideration of the Greek authors, borrowing fometimes from their materials, but never bound by their decisions: where I am indebted I shall not be sparing of my acknowledgments: and where I diffent, fufficient reasons will be affigued. I could have wished for the company of such able guides farther on my journey; but I foon diverge from their track, and must explore my way like an Arab in the defert, by a few flight marks which have escaped the ravages of time and the defolation of war.

To a nation now mittress of those Indian territories which were known to Alexander only by report, and to the Greeks of Egypt only by the intervention of a commerce redricted to the coaft, it may be deemed an object of high curiofity at leaft, if not of attility, to trace back the origin and progress of discovery, and to examine

examine the minute and accidental causes which have led to all our knowledge of the east; causes, which have by flow and imperceptible degrees weakened all the great powers of Afia, which have diffolved the empires of Persia and Hindostan, and have reduced the Othmans to a fecondary rank: while Europe has swifen paramount in arts. and arms, and Britain is the ruling power in India, from Cevlon. to the Ganges :- a fupremacy this, envied undoubtedly by our enemies, and reprobated by the advocates of our enemies, Anquetil du Perron and Bernoulli\*, exclaim at the injustice of our conquefts; but who ever afferted that conqueft was founded upon justice? The Portuguese, the Hollanders, and the French were all intruders upon the natives, to the extent of their ability, as well as the British. India in no age fince the irruptions of the Tartars and Mahomedans has known any power, but the power of the fword; and great as the usurpation of the Europeans may have been, it was originally founded in necessity. It is not my wish to justify the excess; but there are nations, with whom there can be no intercourse without a pledge for the security of the merchant. The Portuguese, upon their first arrival at Calicut, could not trade but by force; it was in confequence of this necessity, that all the Europeans demanded or extorted the liberty of erecting forts for their factories; and this privilege, once granted, led the way to every encroachment which enfued. I notice this, because the same danger produced the same effects from the beginning. It will appear from the Periplûs, that the Arabians in that age had fortified their factories on the coast of Africa, and the Portuguese historians.

<sup>\*</sup> See Description de l'Inde, in three vols by Bernoulli, Berlin 1787, vol. ii.

mention the fame precaution used in the same country by the Atabs in the age of Gama. From this slender origin all the conquests of the Europeans in India have taken their rife, till they have grown into a confequence which it was impossible to foresee, and which it is now impossible to fontrol. No nation can abandon its conquests without ruin; for it is not only positive subtraction from one scale, but preponderancy accumulated in the other. No power can be withdrawn from a single province, but that it would be occupied by a rival upon the instant. Nothing remains but to moderate an evil which cannot be removed, and to regulate the government by the interests of the governed. This imports the conquerors as much as the conquered; for it is a maxim never to be forgotten, that the Portuguese loft by their avarice the empire they had acquired by their valour; but of this too much:—our present business is not with the result of discovery, but its origin.

Voyages are now performed to the most distant regions of the world without any intervening difficulties but the ordinary hazard of the fea. In the ancient world the case was very different: a voyage from Thessally to the Phasis was an atchievement which confectated the same of the adventurers by a memorial in the Heavens, and the passage from the Mediterranean into the Atlantic Ocean was to the Phenicians a secret of state.

The reality of the Argonautic expedition has been queftioned; but if the primordial hiftory of every nation but one is thefured with the fabulous, and if from among the reft a choice is neceffary to be made, it must be allowed that the traditions of Grecce are less inconsistent than those of the more distant regions of the earth. Oriental learning is now employed in unravelling the mythology of

India, and recommending it as containing the feeds of primeval history; but hitherto we have feen nothing that should induce us to relinquish the authorities we have been used to respect, or to make us prefer the fables of the Hindoos or Guebres to the fables of the Greeks. Whatever difficulties may occur in the return of the Argonauts, their paffage to Colchis is confiftent; it contains more real geography than has yet been discovered in any record of the Bramins or the Zendavesta, and is truth itself, both geographical and historical when compared with the portentous expedition of Ram' to Cevlon: it is from confiderations of this fort that we must still refer our first knowledge of India to Grecian fources, rather than to any other: for whatever the contents of the Indian records may finally be found to have preferved, the first mention of India that we have is from Greece, and to the historians of Greece we must still refer for the commencement of our inquiries; their knowledge of the country was indeed imperfect, even in their latest accounts, but ftill their very earliest shew that India had been heard of, or some country like India in the east; a glimmering towards day is difcoverable in Homer, Heródotus, and Ctêfias; obscure indeed, as all knowledge of this fort was, previous to Alexander, but yet fufficient to prove that India was always an object of curiofity and inquiry.

#### HOMER.

III. THE father of poetry is naturally the first object of our regard, his writings contain the history, the manners, and antiquities

5 See Maurice's Hiftory of Hindoftan, vol. ii. p. 243.

of his country; and though his information upon the point proposed may be problematical, still nothing that he has touched is unworthy of attention. When he conducts Neptune into Ethiopia, he feems to place him in the centre between two nations both black, but both perfectly diffinguished from each other; and he adds, that they lived at the opposite extremities of the world east and west: let us then place the deity in Ethiopia above the Cataracts of Syênè, and let a line be drawn east and west, at right angles with the Nile; will it not immediately appear that this line cuts the coast of Nigritiz on the west, and the peninsula of India on the eaft? and though it may be deemed tenthuliaim to affert, that Homer confidered these as his two extremities, and placed his two Ethiopick nations in these tracts, which are their actual refidence at prefent, still it is not too much to fay, that the centre he has affumed is the most proper of all others, that the distant Ethiopians to the east of it, are Indians, and to the west, Negroes, These two species are perfectly distinguished by their make, by their features, and above all by their hair; whether Homer knew this characteristick difference does not admit of proof, but that he

Out & Diango dwarte,
North Hortdaine, d'actregit suitaire,
'Artilly' Obrett, mage to palar hid-dia.
'And du hidware present to the locat,
'And du hidware present to the locat,
'Allower vi diglid deducta, forgare, adellin,
'Ou hid bereits' "Victions, i d'airres,' Od. A. 19,

Ou hid bereits' "Victions, i d'airres,' Od. A. 19,

See the note upon this passage in Pope's translation of the Odylfey, where he adduces with great propriety the tellimony of Straba, to prove that all those nations were accounted Ethiopians by the early Greeks, who lived upon the Southern Ocean from cast to well, and the authority of Prolemy to shew, "that "under the zodiack from east to west, in"habit the Ethiopians black of colour."
The whole passage in Strabo, and the verious
reading of Aristarchus and Crates, are well
worth consulting. Lib. i. p. 30.

Bexases.

knew they were of a feparate race is undeniable, and that he placed them east and west at the extent of his knowledge, is an approximation to truth, and confiftent with their actual polition at the prefent hour.

#### HERODOTUS.

IV. THE distinction which Homer has not marked, is the first circumstance that occurred to Heródotus; he mentions the eastern Ethiopians confidered as Indians, and differing from those of Africa expressly by the characteristick, of long hair, as opposed to the woolly head of the Cafre. We may collect also, with the affiftance of a little imagination, the diffinct notice of three forts of natives, which correspond in some degree with the different fpecies which have inhabited this country in all ages. The Padêi on the north ", who are a favage people refembling the tribes which are still found in the northern mountains, mixed with Tartars perhaps, and approaching to their manners; a fecond race living far to the fouth, not subject to the Persian empire", and who abstain from all animal food; under this description we plainly

<sup>9</sup> Lib. vii. p. 541.

<sup>1</sup>d If the situation of the Padéi were ascertained we might inquire about the manners attributed to them by the historian; but he mentions only fome tribes that live upon the marshes formed by the river (that is, probably the Indus), and then the Padei to the east of thefe: this places them on the north of India; as to all appearance the marihes noticed are those formed by the rains in the Panjeab, but how far east beyond this province we are to fix

the Padei is indefinite. I cannot suppose that Heródotus had received any report of the nations north of the Himmalu Mountains. or elfe I should offer a conjecture to the Orientalifis, whether Padei, converted into Pudei, might not allude to Budtan; for a and in are convertible, as is evident in Multan, which is only another form of reading Mul-tan for Mal-tan or Malliftan, the country of the Malli. 12 Lib, iii, p. 248.

discover the real Hindoos: and a third inhabiting Pactivia and Cafpatyrus, who refemble the Bactrians in their manners, drefs, and arms, who are fubject to Persia, and pay their tribute in gold: thefe, whether we can discover Caspatyrus or not, are evidently the fame as those tribes which inhabit at the sources west of the Indus; who never were Hindoos, but possess a wild mountainous country, where their fastnesses qualify them for a predatory life, and where they were equally formidable to Alexander, to Timour, and Nadir Shah's: they refemble to this day the Bactrians, as much as in the time of Heródotus, or rather the Agwhans in their neighbourhood; and are as brave as the one, and as ferocious as the other. These tribes it is more necessary to mark, because it will prove that the Persians never were masters of India properly fo called, but of that country only which is at the fource of the Indus. Whether they penetrated beyond the main ftream, that is the Indus or the Attock itself, must be left in doubt; but Pactyla, according to major Rennell, is Peukeli; and if Caspatyrus be the same as the Caspira of Ptólemy, there is some ground for supposing that city correspondent to Multan. Should these conjectures be confirmed by future inquiry, it would prove that the Persians did pass the Attock, and were really masters of the Panjeab and Multan; and the tribute which they received, equal to half the revenues of the empire, affords fome reason for suppoling this to be the fact. Much depends upon the iffue of this inquiry, because the Attock, or forbidden river, has been the western boundary of Hindostan in all ages; if the Persians passed it, India

Nadir was glad to compound with these tribes, to let him pass unmolested with the plunder of the unbappy Mahomed Shah.

was tributary to them; if they did not, the tribes west of the Attock only were fubjected, and they were never Hindoos, however efteemed fo by the Perfians. Another circumstance dependent on this inquiry, is the voyage of Scylax, faid to have commenced from Pactyia and Caspatýrus, and to have terminated in the Gulph of Arabia. There are two inconfiftencies in the report of this voyage by Heródotus; the first, that he mentions the course of the Indus to the cast 13, which is in reality to the fouth-west: the second, that he supposes Darius to have made use of the discoveries of Scylax for the invafion of India. Now if Darius was mafter of the Attock, Peukeli, and Multan, he wanted no information concerning the entrance into India, for this has been the route of every conqueror; or if he obtained any intelligence from Scylax it is certain that neither he, nor his fucceffors ever availed themselves of it, for any naval expedition. The Persians were never a maritime people. History no where speaks of a Persian sleet in the Indian ocean, or even in the Gulph" of Persia; and in the Mediterranean, their fea forces always confifted of Phenicians, Cyprians, or Egyptians.

Far is it from my wish wantonly to discredit any historical fact supported on the testimony of such a writer as Herodotus; but there

<sup>&</sup>lt;sup>12</sup> See Hyde Rel. Vet. Perfarum, cap xxiiitwho is half difpofed to make Seylax navigate the Ganges on account of its eaftern direction. He hefitates only because Seylax mutt have returned to the north again from C. Comorin to furrey the mouths of the Indus. See Weifelings d Herod. lib. iv. p. 300. note 34.

<sup>4</sup> Hystaspes father of Darius is the Gushtasp of the Zendavesta, and king of Balk or

Bathria, but I have never been able to different, that the Perlian Darian of the Greeks, or his father Hylfafpes, can be identified with the Bathrian Guthafp of the Zende or Oriental writers; and I fee Richardton in the preface to his Perlian Dictionary affigas no real autiquity to the Ziende of Anguetid and Perno.

<sup>15</sup> I speak of a navy, not ships for trade.

are infuperable difficulties in admitting this voyage of Scylax, or that of the Phenicians round the continent of Africa; the greatest of all is, that no confequences accrued from either. That Heródotus received the account of both from Perfians or Egyptians, is undeniable; that they were performed is a very different confideration. I do not dwell upon the fabulous 16 part of his account of India: because even his fables have a foundation in fact "; but I cannot believe from the state of navigation in that age, that Scylax could perform a voyage round Arabia, from which the bravest officers of Alexander shrunk; or that men who had explored the defert coaft of Gadrofia, should be less daring than an unexperienced. native of Carvanda. They returned with amazement from the fight of Muffendon and Ras-al-had, while Scylax succeeded without a difficulty upon record. But the obftacles to fuch a voyage are numerous, first, whether Pactvia be Peukeli, and Cafpatvrus, Multan: fecondly, if Darius were mafter of Multan, whether he could fend a ship, or a fleet, down the Indus to the sea, through tribes

25 What the fable is of the ants which turned up gold, and the manner of collecting it by the natives, I cannot determine; but it is possible, that as our knowledge of India increases, it will be traced to its fource; and one thing is certain, that it is a tale exifting from the time of Heródotus to the age of De Thou; it is countenanced likewife in the Letters of Busbequins, who saw one of these ants [ficins ] fent as a prefent from the king of Perfia to the Porte. Sec Larcher, tom. iii. p. 339. Another fable, totally diffonant to the ordinary manners of the Hindoos, I shall give in the words of the hiltorian, Mike & reres Tav libin Tin narihifa martin indanis iri naranis Herod. lib. iv. p. 283. ed. Weff.

Til westerne, lib. fil. 248, quod populo universo nequaquam objiciendum ett, sed originem ducit ex illo spurcissimo commercio forminarum prolis defiderio laborantium, cum Hylobiis et Heautontimorcumenis. I can, upon fimilar principles, account for the greatest part of the fables imputed to Megashenes, Daimachus, Onesicritus, Lt. Wilford explains Ctéfias's fable of the Martichers.

17 Not all indeed, for his voyage of Herculës to Scythia is mere mythology. 1 do not use this to differedit the voyage of Scylax ; my object is to mark fable as fable, and to felect the truths mixed with it for observation, See

where Alexander fought his way at every ftep: thirdly, whether Scylax " had any knowledge of the Indian Ocean, the coaft, or the monfoon: fourthly, if the coast of Gadrosia were friendly, which is doubtful, whether he could proceed along the coast of Arabia, which must be hostile from port to port. These and a variety of other difficulties '2, which Nearchus experienced, from famine, from want of water, from the built of his veffels, and from the manners of the natives, must induce an incredulity in regard to the Persian account, whatever respect we may have to the fidelity of Heródotus.

#### CTESTAS

V. NEXT to Heródotus, at the diffance of little more than fixty vears, fucceeds Ctêfias. He refided a confiderable time in the court of Persia, and was physician to Artaxerxès Mnemon. What opportunities he had of obtaining a knowledge of India must have been accidental, as his fables are almost proverbial, and his truths very few; his abbreviator Photius, from whose extracts only we have

18 That there was fuch a person as Scylax, that he was in India, and that his account of that country was extant, appears from Ariftotle's Politicks, lib. vii. in Dr. Gillies's translation, book iv. p. 240. I learn likewife from Larthe work which now bears the name of Scylax as genuine, in a differtation read before the Academy of Inferiptions ; but I know not whether that differtation be published. See Larcher's Herod, tom. iii. p. 407. I have one obicction to its anthenticity, which is his mention Africa. See lib. i. p. 22. of Dardenus, Rheigum, and Iliumin the Troad,

p. 35. for there is great doubt whether Rhêthum way in existence in the time of the real Scylax : and of India, he fays nothing in the treatife now extant.

19 Strabo fays, Pofidonius difbelieved this cher, that the Baron de Sainte Croix defends whole history of Scylax, though he believed the voyage of Endoxus, lib. ii. p. 100. The fact is, there were fo many of these voyages pretended, and fo few performed, that the best judges did not know what to believe; Strabo believed nothing of the circumpavigation of

an account of his works, feems to have paffed over all that he faid of Indian manners; and to have preferved only his tales of the marvellous. The editor 10, however, is very defirous of preferving the credit of his author, and that part of the work which relates to Perfia is worthy of the estimation he assigns it; but we are not bound to admit his fable of the martichora, his pygmies, his men with the heads of dogs and feet reverfed, his griffins and his fourfooted birds as big as wolves. - These sictions of imagination indeed are still represented on the walls of the Pagodas; they are fymbols of mythology, which the Bramins pointed out to the early vifitors of India, and became history by transmission.

The few particulars appropriate to India, and confiftent with truth, obtained by Ctêfias ", are almost confined to fomething resembling a description of the cochineal plant, the fly, and the beautiful tint obtained from it, with a genuine picture of the

was, that when fixed in the ground they averted clouds, hail, and tempefts; he faw the king make the experiment, and it succeeded.

Now whatever a traveller fays he faw with his own eyes, Junicis there are other reasons for doubting his veracity,) is deferving of credit, but when he fees things that imply there was some supershitious practice in Persia I have tonsined myself to his own work. of fixing fwords in the ground for this pur-

20 Ctéfias fays, there is a pool which is pofe, may be believed, but that thefe fwords annually filled with liquid gold; that an hun- must be wrought of metal from the golden dred measures (measures) of this are collected, fountain, or that they had this effect, is a difeach measure weighing a talent; at the bot- ferent consideration; the words are, of 1865, tom of this pool is found iron, and of this dores rated ones, Santhay die vindoarrog - Why iron he had two fwords, one prefented to him does Welfeling tell me to believe this? nay I by the king, and the other by Parysatis the would have believed it, if he had not afferted king's mother. The property of these swords the success of the experiment, but only that the king tried it. Perhaps fome ingenious modern may hereafter quote nearthean a nursimatus to prove that iron was known to be a conductor in that age, and that electricity was concerned in this experiment. See p. 827.

Weffeling's ed. of Herod: and Ctefias. \*\* Some other circumstances recorded by an impossibility, all faith is at an end .- That Cteffas may be collected from Diodorus, but

monkey and the parrot; the-two animals he had doubtless seen in Persa, and slowered cottons emblazoned with the glowing colours of the modern chintz, were probably as much coveted by the fair Persans in the Harams of Susa and Ecbatana, as they still are by the ladies of our own country.

Créfias is contemporary with Xenophon, and Xenophon is prior to Alexander by about feventy years; during all which period, little intelligence concerning India was brought into Greece; and if the Macedonian conquefts had not penetrated beyond the Indus, it does not appear what other means might have occurred of diffpelling the cloud of obfcurity in which the eaftern world was enveloped.

The Macedonians, as it has been shown in a former work, obtained a knowledge both of the Indus and the Ganges; they heard that the seat of empire was, where it always has been, on the Ganges, or the Junna. They acquired intelligence of all the grand and leading seatures of Indian manners, policy, and religion: they discovered all this by penetrating through countries where possibly no Greek had previously set his soot; and they explored the passage by sea, which first opeaed the commercial intercourse with India to the Greeks and Romans, through the medium of Egypt and the Red Sea; and finally to the Europeans by the Cape of Good Hope.

It matters not that the title of fabulifts is conferred upon Megafthenes, Nearchus, and Onesicritus, by the ancients; they publifted more truths than falfehoods, and many of their imputed falfehoods are daily becoming truths, as our knowledge of the country is improved. The progress of information from this origin is materially connected with the object we have proposed, and it cannot be deemed superfluous to pursue it through the chain of authors, who maintain the connection till the discovery of the passage across the coean by means of the monstoon.

Megasthenes and Daimachus \*\* had been fent as embassadors from the kings of Syria to Sandrocottus and his fuccessor Allitróchades; the capital of India was in that age at Palibothra, the fituation of which, fo long disputed, is finally fixed, by Sir William Jones, at the junction of the Saone and the Ganges. These embassadors, therefore, were refident at a court in the very heart of India, and it is to Megafthenes in particular that the Greeks are indebted for the best account of that country. But what is most peculiarly remarkable is, that the fables of Ctesias were still retained in his work; the Cynocéphali, the Pigmies, and fimilar fables were still afferted as truths. It is for this reason that Strabo 29 prefers the testimony of Eratosthenes and Patrócles, though Eratosthenes was refident at Alexandria, and never vifited India at all; and though Patrócles never faw any part of that country beyond the Panicab. still their intelligence he thinks is preferable, because Eratosthenes had the command of all the information treasured in the library of Alexandria; and Patrocles was possessed of the materials which were collected by Alexander himfelf, and which had been communicated to him by Xeno the keeper of the archives.

It is inconceivable how men could live and negotiate in a camp on the Ganges, and bring home impossibilities as truth; how

<sup>&</sup>lt;sup>30</sup> Bruce fays, Megafthenes and Denis, which milled him; he is not in the habit of from Folemy king of Egypt; vol. i. p. 461. citing his authorities. This feems as 48 file followed Trench authority. <sup>32</sup> Lib. ii. in initio, p. 70.

Megafthenes could report that the Hindoos had no use of letters ", when Nearchus had previously noticed the beautiful appearance of their writing, and the elegance of character, which we still discover in the Shanskreet "; but the fabulous accounts of Citefias were repeated by Megasthenes, professed from the authority of the Bramins; and whatever reason we have to complain of his judgment or discretion, we ought to acknowledge our obligations to him as the first author who spoke with precision of Indian manners, or gave a true idea of the people.

It is not possible to enter into the particulars of all that we derive from this author, but the whole account of India, collected in the fifteenth book of Strabo, and the introduction to the eighth book of Arrian, may justly be attributed to him as the principal source of information. His picture is, in fact, a faithful representation of the Indian character and Indian manners; and modern observation contributes to establish the extent of his intelligence, and the fidelity of his report.

This fource of intelligence, commencing with Alexander and concluding with Megafthenes and Daimachus, may be claffed under the title of Macedonian, as derived from Alexander and his fucceffors, and fuch knowledge of the country as could be acquired by a hafty invafion, by the inspection of travellers and embaftadors, or by the voyage down the Indus, the Macedonians feem to have

Strabo, lib. xv. p. 709. an imputation on Megafibenes, which the good father Paolino is very unwilling flould attach to him. See his Differtation De veteribus Indis, in answer to Augustious Georgius, zuthor of the Thibet Alphabet. p. 12.

Shanfkreet, or Sanferit, is the mode of writing this word, which has prevailed among our English writers. I always prefer the most popular, but Paolino writes Sams Crda, lingua perfecta, p. 258. or Krds = perfects, Sam = simul, coëval with creation.

attained with fingular attention, and, notwithstanding particular errors, to have conveyed into Europe with much greater accuracy than might have been expected.

The voyage of Nearchus opened the paffage into India by fea, and obviated the difficulties of penetrating into the east by land, which had previously been an insurmountable barrier to knowledge and communication. But it is to Onesicritus " we trace the first mention of Tapróbana, or Cevlon, and what is extraordinary, the dimensions he has assigned to it, are more conformable to truth.", than Ptolemy had acquired four hundred years later, and at a time when it was visited annually by the fleets from Egypt; but on this subject more will be said in its proper place.

### LAMBÚLUS.

VI. The mention of Ceylon naturally introduces us to the yovage . of Iambúlus ", because, fabulous as his account is, it is still most

elfewhere, a truth to this day. Megasthenes notices a river, gold and pearls, and that the it by Opesicritus, for inflead of 625 miles, he fays it is 875 miles long, 625 broad. In Pliny's age the north eaftern fide was grown to 1250 miles, and the error was always on the increase till the time of Ptolemy. Pliny adds, that Rachia [Rajah] was the head of the embaffy to Rome, and that Rachia's father had visited the Seres. One incidental circumstance feeins to mark Arabian inter- lemy extends it to more than 966 miles from course previous to the voyage of Annius Plo- north to fouth, 750 from west to east. camus's freed man. Regi, cultum Liberi Pa-

26 To Onesicritus only, if we follow Strabo tris, cateris, Arabam, the king worthipped or Pliny, vi. 24. who, he fays, mentions ele- Baechus, the people on the coast followed the phants there larger and more fit for war than rites of the Arabians. The king wore the garment of India, the people (on the coast) that of the Arabians. He adds also, that Herpeople are called Palcogoni. Eratofthenes cules was worshipped, that is, Bali, the dafeems to have enlarged upon the fize given disn Hercules. Whence both Paleogoni, and Palénmoondus. This, however, ought not to be afferted without giving due weight to Paolino, who derives Palefimoondus from Parafleri mandals, the kingdom of Parafhri, and Parashri is the Indian Bacchus.

17 He makes it 625 miles, without mentioning length or breadth; it is in reality near 280 miles long, and 138 broad; but Pto-28 See Harris, vol. i. 383, and Ramufio.

probably founded on fact, and because Diodôrus has ranked it as history.

Lucian ", perhaps, formed a better judgment when he classed him with the writers of fiction; for his account of the Fortunate Islands and of Ceylon stand almost on the same ground; the circumference of the Island he feems to give at five thousand stadia from Onesicritus, and the navigation across the ocean from Ethiopia he derived from the general knowledge that this voyage had been performed, or imputed, from a very early age; his departure from Ceylon to the Ganges, his arrival at Palibóthra, and his intercourse with the king, who was an admirer " of the Greeks, may be referred to Megasthenes and Daimachus, while his fictions of impoffibilities are all his own. Notwithstanding all this there are some allufions to characteriftick truths, which though they do not befpeak the testimony of an eye-witness, prove that some knowledge of the ifland had reached Egypt, and this at a time previous to the discovery of the monsoon; for Iambúlus must be antecedent to Diodôrus, and Diodôrus is contemporary with Augustus. It is this

title of \$\int\_{0.05}\$\text{Aug}\$, and this term is \$4\text{II}\$ found inclined in Greek letters upon the coins of the first shupers of the Parthian dynasty. See Bayer, p. 79, I ferems, therefore, highly probable, that the fivenent of this tale of Innibials knew that Gone of the eacher potentates were slighted lovers of the Greeks; and the has ignorantly applied this first to a foreveign of India, which appertained properly to those only who reigned in the cort of Fortis. This

fovereignty, is hard to determine,) affumed the

<sup>&</sup>lt;sup>39</sup> Luc. de vera historia, i. cap. 3. γνάφιμου μὲ ἄναστ τὰ ὑΙκδος π'νασύμενε ὑκ ἀντροπ δ ὅμως συθώς τὰν ὑκοθωνω, Wesseling in lib. ii. 167. Diod.

<sup>20</sup> opalom, though there he nothing in this word to raife duminton in general, but at the finsippents of the circumfance, how a king of Paliabethar found know enough of Greeks to be found of the nation: there is full a forcet allafon or much carriothy, which be this, the native chiefs who raifed themselves to independence on the raise of Syrian monarchy, (whether from the number of Greeks in the early or the propharity of the Greeks and, or from the popularity of the Greeks.

fingle circumstance that makes it requisite to notice such an author. The truths alluded to are, I. The stature of the natives, and the sexibility of their joints. II. The length of their ears, bored and pendent. III. The perpetual verdure of the trees. IV. The attachment of the natives to astronomy. V. Their worship of the elements, and particularly the fun and moon. VI. Their cotton agaments. VII. The custom of many men having one wise in common, and the children being entitled to the protection of the partnership. (This practice is said by Paolino "to exist faill on the coast of Ceylon, and is apparently conformable to the manners of the Nayres on the continent.) VIII. Equality of day and night. IX. The Calamus or Maiz. And it is submitted to future inquiry, whether the particulars of the alphabet may not have some allusion to truth; for he says, the characters are originally only seven, but by four varying forms or combinations they become twenty-eight.

The chief reason to induce a belief, that Iambúlus never really visited Ceylon, is, that he should affert he was there seven years, and yet that he should not mention the production of cinnamon. There is no one circumstance that a Greek would have noticed with more oftentation than a discovery of the coast where this spice grew; but Iambúlus, like the rest of his countrymen, if he knew the produce, adjudged it to Arabia, and never thought of this leading truth, as a sanction to the construction of his fable; he is described by Diodôrus as the son of a merchant, and a merchant himself, but possessed in the relation to the restance of the restance of the same production. In trading to Arabia

<sup>&</sup>lt;sup>24</sup> Faolino was a Romúh miffionary in Travencore, for thirteen or fourteen years; his learned and infructive work, p. 378. work was publified at Rome; he is formetimes

for fpices, he was taken prifoner and reduced to flavery; he was carried off from Arabia by the Ethiopians, and by them committed to the ocean, to be driven wherever the winds might carry him; and in this case his reaching Cevlon would be the least improbable and part of his parrative. No means occur to fettle the date of this hiftory. but the allufion to known truths makes it curious, even if it be a novel. These truths could have been obtained only from report in the age of Diodôrus12, and the wonder is, that it contains a circumftance dependent on the monfoon, of which Diodôrus was himfelf ignorant, and which was not known to the Greeks and Romans till near a century later. I dare not claim it as a proof, that the Arabians failed by the monfoon at this time, but the fcene is laid in Arabia, and the paffage is made from the coast of Africa. as that of the Arabians really was; and it is natural to conclude. that the Arabians did really fail to Ceylon in that age, though the Greeks and Romans did not. The embaffy from Pandion to . Augustus cannot be a fiction, and the embaffadors must have failed from India, either on board Arabian ships, which frequented their harbours, or in Indian vessels which followed the same course. All this is previous to Hippalus, and the whole taken together is a

3º P. Luigi Maria de Gefu, a Carmeline, afterwarda Bp. of Ufula, and Apotholick View of the coast of Malshar, coming round Oage Comorin in a native refiel, was carried over to the Middives, and thence to the coast of Africa. Fandin. p. 83. Annius Pleasmus was carried in a contrary direction from Azahia to Ceybon; and in fact, whenever a veffel, on either coast, is by accident forced out of the limit of the land and fee herees,

fhe will be caught by the monfoon, and earried over to the opposite continent. To accidents of this fort we may impute a very early difcovery of the monfoons by Arabians or Ethiopians, long before Hippalus imparted it to the Greeks and Romans.

35 Harris or Dr. Campbell are my preenfors in this examination of Iambúlus and Agatharchides. They gave credit to Iambúlus. I here give the reasons for my diffent. confirmation of an Arabian navigation previous to that from Egypt. That a novel should contain historical facts and truths is natural, and will not be denied by those who are acquainted with Heliodorus. Many Ethiopick customs " are noticed in that work. which are true to this day. After all, the novel of Iambúlus is not fo furprizing in itself, as its existence in the page of Diodôrus.

#### A C. A THAR CHIDES

VII. AGATHARCHIDES35, the next object of our confideration, is an author of far different estimation; he was president of the Alexandrian library, and is always mentioned with respect by Strabo. Pliny, and Diodôrus 26. His work on the Erythrêan or Red Sea, is preferved in an extract of Photius, and copied almost in the same terms, but not without intermixture 37, by Diodôrus, Diodôrus indeed professes to derive his information from the royal commentaries, and original visitors of the countries he describes; but that he copies Agatharchides is evident, by a comparison of this part of his work with the extract of Photius; or, perhaps, con-

34 The Nagarest drums, fo often noticed by Bruce, are discoverable in this work. 35 It is with much regret that I confess my

37 In confirmation of this affertion, we may mention a paffage, lib. iii. p. 208. Diod. where

an allufion is evidently made to the feparation of the waters of the Red Sea, as recorded by Mofes; it is received in this fense by Grotius, Bochart, and Weffeling; and if this was in Agatharchides, it could hardly have been was not in Agatharchides, it is plain that Diodôrus joined other authorities to his.

This is given as a conjecture, but it is of weight.

neglect of this author, from whom I might have corroborated many circumftances in the voyage of Nearchus. A curfory perufal had induced me to view his errors in too ffrong a light; if juffice be done to him on the prefent omitted by Photius, a christian bishop; if it review, it is no more than he merits.

<sup>35</sup> Diodôrus speaks of Agatharchides and Artemidôrus, as the only authors who have written truth concerning Egypt and Ethiopia, Lib. iii. 181.

fidering Agatharchides as librarian, he conceived that his work was founded on the commentaries or archives of the Alexandrian depository. Strabo<sup>1</sup> likewife follows Agatharchides in almost all that relates to Ethiopia, the countries fouth of Egypt, and the weftern coast of Arabia<sup>2</sup>, or rather, as Wesselling has observed, with his usual accuracy, both copy Artemidorus<sup>2</sup> of Ephesus<sup>4</sup>, who is the copysit of Agatharcides.

It is necessary to pay more attention to this author, as he is apparently the original source from whence all the historians drew, previous to the discovery of the monston; his work forms an epoch in the science, and when Pliny comes to speak of the discoveries on the coast of Malabar in his own age, and adds, that the names he mentions are new, and not to be sound in previous writers; we ought to consider him as speaking of all those, who had followed the authority of the Macedonians, or the school of Alexandria, of which, in this branch of science, Eratosthenes and Agatharchides were the leaders.

Eratofthenes was librarian of Alexandria under Ptolemy Euergetes I. and died at the age of eighty-one, 194, A.C. He was rather an aftronomer and mathematician than a geographer, and is honoured with the title of furveyor of the earth\*, as the first aftronomer who measured a degree of a great circle \*, and drew the first parallel of latitude, the sublime attempt on which all the accuracy of the science depends.

æ.

<sup>38</sup> Lib. xvi. p. 769.

<sup>&</sup>lt;sup>29</sup> Diod. lib. iii. p. 205. not. καλυμένη, &c., but Strabo cites both, p. 769.

<sup>4</sup>º Id. 774.

<sup>4</sup> There are two Artemidorus's of Ephelus. See Hoffman in voce. This Artemidorus

lived in the reign of Ptolemy Lathyrus, anno 169, A. C.

<sup>43</sup> See his eulogium in Pliny, lib. ii. c. 112. 43 Hipparchus is later than Eratofthenes ;

he is supposed to have lived to 129, A. C.

It appears from Strabo and Pliny, that Eratofthenes speaks of Meroe, India, and the Thina, and of the latter as placed incorrectly in the more ancient maps; how this nation, which was the boundary of knowledge in the age of Ptolemy, (and which, if it does not intimate China, is at least as distant as the golden Chersonese of Malacca,) found its way into charts more early than Eratofthenes, will be confidered in its proper place; but his knowledge of Meroe or Abyffinia is derived from Dalion, Aristocreon, and Bion, who had been fent by Philadelphus, or his fuccessors, into that country, or from Timosthenes", who sailed down the coast of Africa as low as Cerne ". This information concerning India must be deduced from the Macedonians, but his information is confined on the fubject of Oriental commerce: the foherical figure of the earth feems to be the grand truth he was desirous to establish, and his geographical inquiries were perhaps rather the basis of a system, than a delineation of the habitable world

Agatharchides, according to Blair, must, though younger, have been contemporary with Eratosthenes; he was a native of Cnidus in Caria, and sourished 177, A. C. But Dodwell" brings him down much lower, to 104, A. C. which can hardly be true, if Artemidorus" copied his work, for the date of Artemidorus is attributed to 104, A. C. also, the same year which Dodwell gives to Agatharchides.

<sup>44</sup> What credit Timosthenes defevers is due to the state of the state o

<sup>45</sup> Sometimes supposed to be Madagascar.

Thefe dates are of importance, if we affiume the work of Agatharchides as an epoch, which in fact it feems to be, and the principal authority for the fubfequent hiftorians, previous to the difcovery of Hippalus; his work it is by no means neceffary to vindicate in all its parts, but it contains many peculiar truths of confirmed by modern experience, and the first genuine characteristicks of Abylafinia that occur in history.

Some of these circumstances, though not connected with the purpose before us, cannot be supershuous, as they contribute to establish the credit of the work; these are, I. The gold mines worked by the Prolemies on the coast of the Red Sea; the process; the sufferings of the miners; the tools of copper found in them, supposed to have been used by the native Egyptians, prior to the Persian conquest. II. In Merce, or Abystinia, the hunting of eleptiants, and hamstringing them; the sless cut out of the animal alive.". III. The sty, described as the scourge of the country in

48 Great moderation is due in judging all writers who speak of a country in the first inflance. Things are not falle because they are firange, and an example occurs in this author, which ought to fet rash judgment on its guard. Agatharchides mentions the worm which is engendered in the legs, and is wound out by degrees. Plutarch ridicules the affertion, and fays, it never has bappened and never will. In our days every mariner in the Red Sea can youch the truth of the fact; and if Plutarch had lived to be acquainted with our illustrious Bruce, he would have shewn him that he carried with him the marks and effects of this attack to the grave. See Testimonia. Agathar. De Rub. Mari. Hudson, p. 1. See also Diodôrus, lib. iii. p. 100.

Πολλά δἱ τὰ ἄλλα τέντει παραδίζοτερα συντιλείται, τεῖς μὰ αγκεδειν ἄπινα, τοῖς δὶ ατέραι ἐιλοφόσει, ανπομένητα

49 A very extraordinary fact, and fimilar to what has happened in our own age. According to Col. Vallancy, inflruments have been found in the mines in Ireland which he fupposes to be Phenician; and others have been found in the mines in Wales, which are certainly Roman.

1º Strabo alio mentions the Kaninony, which perhaps intimates caters of roso fich, and the excitio forminarum, in a paffage where he ferms to be copying Agatharchides or Arternidorus. The original here does not fight the fielh from living oxen, but elephants. Sze Strabo, lib. xvi. p. 771.

the fame manner as by Bruce. IV. Something like the enfete tree of Bruce. V. Locusts described as food. VI. Troglodytes. VII. The thinoceros, the camelopard, apes." strangely called sphinxes.", the crocotta " or hyena; several other minute particulars might be enumerated, but not without a tincture of the fabulous.

His account of the coaft is our more immediate concern; this commences at Arsinoè, or Suez, and goes down the weftern coaft of the Red Sea to Ptolemáis Thèrôn', it mentions Myos Hormus, but takes no notice of Berenícè. The particulars of this navigation are very fcanty, but ftill one fact is fubftantiated, that the ordinary course of trade carried on, went no lower than Ptolemáis, and was confined more especially to the importation of elephants.

Prolemáis is the Ras Ahchaz of d'Anville, the Ras Ageeg of Bruce, in latitude 18. Tot. " and full three hundred and fifty miles thort of the straits of Bab-el-Mandeb. A proof that whatever Ptolemy Philadelphus had discovered of the coast of Africa, it was now little visited by the fleets from Egypt, but that there was some fort of commerce is certain; Strabo cites Eratosthenes." to prove that the passage of the straits was open, and Artemidorus, to shew the extension of this commerce to the Southern Horn; of this there will be

and without hair. Ad Plin lib. vi. See the Krokotas on the Paleftrine marble, which I am not naturalift fufficient to appropriate.

<sup>3\*</sup> The fightimes are fuppoided to be apes by Welfelling, and from their tamends it is probable. The crecount I translate hyens, became it is faint to be between a wolf and as dog from the mention of its initiating the human voice, it may be the shackall. I cannot help nothing that the animals enumerated by the author are all named in the finne manner on the electrated Pathrine Modales. Hardonin thinks that the diffinction of their sphuse that the theory are possible to the probability of the probabi

<sup>&</sup>lt;sup>32</sup> So called from Ocaw, becaufe the elephants were here hunted and taken; they are fo fill according to Bruce, and below this cape, de la Rochette places the commencement of a valt forels, feen by all veffels which keep this coath.

<sup>53 18° 7&#</sup>x27; de la Rochette. 54 Lib. xvi. p. 769.

frequent occasion to speak hereafter, neither ought it to be omitted, that perhaps Agatharchides knew the inclination of the African coast beyond the straits, for he notices its curvature "to the east, [which terminates at Gardesan,] and which is apparently the boundary of his knowledge in this quarter; but our immediate business is with the coast between Myos Hormus and Ptolemáis, and here the first place mentioned is the Sinus Impurus", which admits of identification with the Foul Bay of our modern charts, from the circumstances mentioned by Strabo, who says, it is full of shoals and breakers, and exposed to violent winds, and that Berensce lies in the interior of the bay".

Below this, Agatharchides, or his abbreviator, afford little information, for we are carried almost at once to two mountains, called the Bulls and Ptolemáis Thêrên, without any intervening circumstance but the danger of shoals, to which the elephant ships from Ptolemáis are exposed to these shoals there are many about Suakem in de la Rochette, though Bruce denies the existence of a single one on the whole western coast of the Red Sea. The geographer, however, is more to be depended on than the traveller, as is proved by the misfortunes to which some of our English vessels have been exposed, which verify the affertions of Eratosthenes, Artemidorus, and Agatharchides.

At Ptolemáis the account closes, as if there were no regular commerce below that point; but its existence has been evinced by what is here said, and will be farther confirmed from the Adulitick:

<sup>55</sup> I am not certain whether this relates to the coast within the gulph or without, but he mentions the illands at the straits and the 55 Khwas assessers. Strabo, p. 770...

marble in its proper place; but the total filence of Agatharchides. in regard to Berenice, unless it be an omission of his abbreviator, is still more unaccountable; it appears, indeed, as if the caravan road from Coptus to this place, was a much greater object of attention under the Roman government than under the Ptolemies. accounts extant are all Roman; from Pliny, from the Itinerary, and from the Peutingerian tables; but the Greek authorities may have perished, and Strabo mentions two different states of these roads; one from Coptus to Berenice as it was first opened by Philadelphus, and another from Coptus to Myos Hormus, after it was furnished with wells and refervoirs, and protected by a guard. Are we then to think that this, after being opened, was neglected again, when Agatharchides wrote? or are we to suppose that Berenicè is comprehended in the mention of Myos Hormus 58? for Berenícè is no harbour 59, but an open bay, and the ships which lade there, lie at Myos Hormus till their cargo is ready. However this may be, the account of Agatharchides returns again from Ptolemáis to Myos Hormus, and then, after passing the gulph of Arsínoè, or Suez, crosses over to Phenicôn o in the Elanitick Gulph, and runs down the coast of Arabia to Sabêa. In this course of great obscurity, there is no occasion at present to pursue the tract throughout, as it will be refumed in the third book, when the account of the Periplûs is to be examined, and fuch light as is to

mires.

เรา แม้ , รถียี ใบหล่งยุ่น รถี โอยินมี ผลรสงุนๆ ค่ะ โพรรครั้งเยอ

<sup>58</sup> It should rather feem from this that the road from Coptus to Myos Hormus (which was the nearest) was more frequented than that to Berenice, and that the latter was never materially in use, till the time of the Romans. 59 Strabo, lib. xvii. p. 815. Beguiem anique-

treous and infra de ander de enc Begwinne fre Μολς "Ορμος πόλης έχεισα κάνεφθμον των πλυιζο" 00 De la Rochette places Phenicôn at Tor, but this will be confidered hereafter.

be collected from other geographers will be adduced, in order to clucidate the narrative, which is the first genuine account of Arabia that is extant. Neither is it unworthy of notice, that the Periplüs itself is constructed upon the plan of Agatharchides; it goes down the western coast of the gulph in the same manner, then returns back to Myos Hormus, and crosses over to the eastern side, and pursues that line to its conclusion; the difference between the two consists in the difference of knowledge in the respective ages. Agatharchides describes the trade as it stood in the age of Philometor. The Periplüs carries it to the extent it had obtained under the protection of the Roman emperors; but both set out from the same point for both voyages and it is only the extension of the line which consistents the distinction.

But it is our immediate business to proceed to the country of the Sabéans, called Arabia the Happy, from its wealth, its commerce, and its produce, either native or imputed. This province answers generally to the modern Yemen, and the Sabéans of our author's age possessed to the Lordian commerce, and stood as the intermediate agents between Egypt and the East. This is a most valuable fact, which we obtain from this work, and clouded as it may be with much that is dark and marvellous, the truth appears upon the whole incontestably. Certain it is that the wealth assigned to this nation is a proof of the existence of a commerce, which has enriched all who have stood in this situation; and equally certain is it that the information of the author ceases at the succeeding step.

Sabêa, fays Agatharchides, abounds with every production tomake life happy in the extreme, its very air is fo perfumed with odours, that the natives are obliged to mitigate the fragrance by scents that have an opposite tendency, as if nature could not support even pleasure in the extreme. Myrrh, frankincense, balsam, cinnamon, and cafia are here produced from trees of extraordinary magnitude. The king, as he is on the one hand entitled to supreme honour, on the other is obliged to fubmit to confinement in his palace, but the people are robust ", warlike, and able mariners, they fail in very large veffels to the country where the odoriferous commodities are produced, they plant colonies there, and import from thence the larimna 64, an odour no where elfe to be found; in fact there is no nation upon earth fo wealthy as the Gerrhei and Sabei. as being in the centre of all the commerce which paffes 52 between Afia and Europe. These are the nations which have enriched the Syria 64 of Ptolemy; these are the nations that furnish the most profitable agencies to the industry of the Phenicians, and a variety of advantages which are incalculable. They poffers themfelves every profusion of luxury, in articles of plate and sculpture, in furniture of beds, tripods, and other household embellishments, far superior in degree to any thing that is feen in Europe. Their expence of

60 So Bruce, vol. i.p. 408. quotes (faish, xiv. 4. The merchandif of Edisiphs and of the Sakean, mm of fature, as curious, for according with this pallage, in our author, as with the tellimony of their mercantil percenimence, MNDIN Schaim. The term for Ethiopia, in this pallage, is Cufb, which means some tribe of Arthin. and not the Ethiopian of Africa.

<sup>61</sup> Strabo makes Larimous an odour, inchfaror θυμίαμα. xvi, 778.

<sup>63</sup> The fragment of Agatharchides preferves a most valuable record in Photius which is lost in Diodorus and Strabo. Strabo ends with

the riches of Sabéa, and does not go to the White Sea, and the particulars of the fun mentioned by Diodôrus and Photius. In the former part Diodôrus is more expansive and intelligible than Photius.

<sup>68</sup> See Harris, i. 419. Jofephus, lib. viii. c. 2. where mention is made by Harris of Ptolemy's building Philadelphia on the fite of Rahab of the Ammonites, which might have fome relation to Syria. But I cannot help supposing that Espian in here a falle reading, It ought to be the hingdom of Ptolemy, and not the Syria of Ptolemy.

living rivals the magnificence of princes 65. Their houses are decorated with pillars gliftening with gold and filver. Their doors are crowned with vafes and befet with jewels; the interior of their houses corresponds in the beauty of their outward appearance, and all the riches of other countries are here exhibited in a variety of profusion 66. Such a nation, and so abounding in superfluity, owes its independence to its distance from Europe; for their luxurious manners would foon render them a prey to the European fovereigns, who have always troops on foot prepared for any conquest, and who, if they could find the means of invasion, would foon reduce the Sabeans to the condition of their agents and factors, whereas they are now obliged to deal with them as principals.

From this narrative, reported almost in the words of the author, a variety of confiderations arife, all worthy of attention. It is, as far as I can discover, the first contemporary account of the commerce opened between Egypt and India, by the medium of Arabia; it proves that in the reign of Ptolemy Philometor, in the year 177, A. C. and 146 years after the death of Alexander, the Greek fovereigns in Egypt had not yet traded directly to India, but imported the commodities of India from Saba the capital of Yemen: that the port of Berenice was not used for this commerce, but that

<sup>65</sup> Strabo from Eratosthenes and Artemi- manifest from the whole of this account bedorus, confirms all this fplendour, and almost repeats the words of Agatharchides, lib, xvi.

p. 778. 66 Harris, or Dr. Campbell, after talking magnificently of the commerce of the Ptotain date of a vifit to that country. It is turn to the whole Ode.

fore us, that the Sabéans did go to India, and that the subjects of Ptolemy did not. It is this monopoly that made the riches of Arabia proverbial.-Icci beatis nunc Arabum invides gazis. Hor. Ode 20. lib. i, where my excellent lemies with India, at last confesses, vol. i. p. 432. friend and patron the archibishop of York, that the discovery of Hippalus is the first cer- reads, beatus nune, which gives a beautiful

Myos Hormus, or Arsínoè, was ftill the emporium. It proves that there was no trade down the coaft of Africa (an intercourse afterwards of great importance) except for elephants, and that no lower than Ptolemáis Thèrôn. It thews that the voyage down the Arabian coaft of the Red Sea was ftill very obfeure, and above all it demonstrates incontestably by the wealth conflantly attendant on all who have monopolifed the Indian commerce, that the monopoly in the author's age was in Sabèa. The Sabèans of Yemen appear connected with the Gerhèans on the Gulph of Persia; and both appear connected with the Phenicians by means of the Elanitick Gulph, and with the Greeks in Egypt, by Arsínoè and Myos Hormus.

I am not ignorant that the eftablishment of a trade with India is attributed to Ptolemy Philadelphus", that the immense revenue and wealth of Egypt is imputed to this cause, and that a number of Indian captives are mentioned by Athenêus, as composing one part of the spectacle and procession, with which he entertained the citizens of Alexandria. But this last evidence, which is deemed conclusive, admits of an easy solution; for Indian was a word of almost as extensive signification in that age, as the present; it comprehended the Cafres of Africa, as well as the handsome Assatick blacks, and the commerce with Arabia was long called the Indian Trade, before the Greeks of Egypt found their way to India. But if real Indians were a part of the procession, they were obtained in Sabēa. The Arabians dealt in slaves, and the Greeks

<sup>67</sup> See Harris's Voyages, vol. 1, book i. c. 2. and is executed most ably. I am obliged to compared with p. 421. This work is quoted him for many references to authors, which I as Harris's, but the part of it, in the feeond have it not in my power always to acknow-cition here referred to, is by Dr. Campbellj ledge.

might find Indian flaves in their market as well as any other. Huet, Robertson, and Harris are all very desirous of finding a trade with India under the Ptolemies; but the two latter, as they approach the real age, when this commerce took place, upon the discovery of Hippalus, fully acknowledge, that all proofs of a more early existence of it are wanting; no contemporary author afferts it: and the testimony of Agatharchides, whether we place him in 177, or with Dodwell, in 104, A. C. affords perfect evidence to the contrary. The internal evidence of the work itself carries all the appearance of genuine truth, and copied as it is by Strabo and Diodôrus it obtains additional authority 65. They have both added particulars, but none which prove a direct communication with India in their own age. They both terminate their information at Sabêa, where he does, and both fupprefs one circumstance of his work which Photius has preserved, that ships from India were met with in the ports of Sabêa. Whatever knowledge of India, or Indian trade, they have beyond this, is fuch only as they derived from the Macedonians, and is totally diffinct from the communication between Egypt and that country.

In regard to the influx of wealth into Egypt, it would be equally the fame, whether the Greeks imported Indian commodities from Arabia or from India direct. For as the Sabeans were possessed of the monopoly between India and Egypt, so Egypt would enjoy the same monopoly between Sabea and Europe.

<sup>&</sup>lt;sup>68</sup> The authority of Agatharchides is fo of his own information. See Straho, lib. xrioften joined with that of Eratofilhenes by p. 778-πλλλ δ; πα μι παμαπλανία, τη Ερνταν-Straho, that it is highly probable it contains Sim λίγη, τα δι εξ ακερί του άλλον Γερκαν παραλλί that Eratofilhenes knew, with the addition πίθηση.

The confumers, indeed, must bear the burden of this double monopoly, but the intermediate agents in both instances would be gainers, and the profits, while the trade was a monopoly, would be, as they always have been, enormous. The sovereigns of Egypt were well apprized of this, and so jealous were they of this prerogative of their capital, that no goods could pass through Alexandria either to India or Europe, without the intervening agency of an Alexandrian factor.

In the description which Agatharchides gives of Sabéa there is nothing inconfiftent with probability; but this is the boundary of his knowledge towards the East, and the marvellous commences at the fucceeding step, for he adds, that as foon as you are past Sabéa, the fea appears white like a river; that the Fortunate Islands. fkirt the coast, and that the flocks and herds are all white, and the females without horns . If this has any foundation in truth. the islands are those at the mouth of the gulph, if we ought not rather to understand the ports of Aden and Cana; and the mention of veffels arriving here from the Indus, Patala, Perfis, and Karmania is agreeable to the fystem of the commerce in that age. A flight notice of the different appearance of the constellations next fucceeds, and then an illustrious truth, that in this climate there is no twilight in the morning. Other circumstances are joined to this, which miflead; as the rifing of the fun not like a difk but a column; and that no shadow is cast till it is an hour above the horizon. A more extraordinary effect is added, that the evening

<sup>69</sup> It is not extraordinary that sheep should be found without horns, but it is remarkable. Agatharchides, that this should be regarded as a marvellous

twilight lasts three hours after sun-set. These circumstances are introduced to excite the attention of the modern navigator; for notwithstanding they may be falled, still there may be certain phênomena that give an origin to the skition.

If it should now be inquired how the commerce with India could be in this flate so late as the reign of Ptolemy Philometor, or why the discoveries of Nearchus had not in all this time been profecuted? the answer is not difficult. The fleets from Egypt found the commodities of India in Arabia, and the merchants contented themselves with buying in that market, without entering upon new adventures to an unknown coast. There is every reason to suppose that Sabêa had been the centre of this commerce long prior to the discoveries of Nearchus, and the age of Alexander; and it is highly probable that the Arabians had even previous 7° to that period ventured across the ocean with the monfoon. That they reached India is certain. for Indian commodities found their way into Egypt, and there is no conveyance of them so obvious as by means of Arabia and the Red Sea. The track of Arabian navigators is undoubtedly marked along the coast of Gadrosia, before Nearchus ventured to explore it, for the names he found there are many of them Arabick; and if conjecture in fuch a case be allowable, I should suppose that they kept along the coast of Gadrosia to Guadel or Possem, and then stood out to fea for the coast of Malabar. My reason for supposing this, is, that Nearchus found a pilot at Possem, which implies previous

<sup>&</sup>lt;sup>36</sup> Harris, i.e. Dr. Campbell, Druce, and cidest, he would readily find the means of Robertion all fubforble to this opinion, and returning by an Arabian velicl, he would like from this fake a frong degree of probability wife learn the nature of the moniton. See stuckes to the account of Placanus's fixed Bruce, vol. i. 369.
gos if he was carried to Certon by ac-

navigation, and adds, that from that cape to the Gulph of Perfia the coast was not so obscure as from the Indus to the cape.

But if Nearchus reported this, or if the commentaries in the Alexandrian library contained any correspondent information, how could Agatharchides be ignorant of the navigation beyond Sabéa? He was not ignorant of Nearchus's expedition, for he mentions the Ichyophagi of Gadrofia, with many circumflances evidently derived from Nearchus, and others added, partly fabulous perhaps, and partly true, from other fources of intelligence, fuch as the hiftories, journals, or commentaries in the library.

He mentions expressly the manner of catching fifth, as described by Nearchus, within nets extended along the shoals upon the coast?, and the habitations of the natives formed from the bones of the whale. He notices the ignorance and brutal manners of the natives, their drefs, habits, and modes of life; and one circumstance he records, which he could not have extracted from Nearchus, which is that beyond the straits which separate Arabia from the opposite coast, (meaning, perhaps, the entrance to the Gulph of Persa,) there are an infinite number of scattered islands very small and very low, and extended along the sea which washes India and Gadrossa "", where the natives have no other means of supporting life but by the turtles which are found there in great abundance

<sup>&</sup>lt;sup>28</sup> He uses the very word, fox/ux, so often number of these illends can hardly apply to commented on in the journal of Nearchus.
<sup>29</sup> The mention of Gadrosia naturally intuities of the Lackdives or Maldivos. The duces obscurity and doubt, but the infants.

and of a prodigious fize. I have thought it necessary not to omit this circumstance, because it appears to me as the first notice, however obscure, of the Lackdives and Maldives ", called the islands of Limytice in the Periplus, and distinguished particularly as producing the sinest tortoise-shell in the world. The mention of them by Agatharchides appears to be the earliest intimation of their existence. In that sense the satisfactions, and consistent with the purpose of the work, which is at present to shew the progress of discovery, as recorded by contemporary authors.

The extravagances or improbabilities which contaminate feveral parts of this account in Agatharchides, have been difregaried by defign; where knowledge ends fable commences, and much lentry of judgment is due to all writers who speak of distant countries for the first time, or by report. This author does not distinctly mark his Ichty6-phagi. They are not merely those of Gadrosia, but others also apparently on the coast of Arabia or Africa\*. Regions, it is true, where fish rather than bread has ever been the staff of life, and where it continues so at the present hour. Let any reader advert to the manner in which he speaks of the passage out of the Red Sea into the ocean, and he cannot fail to observe, that by giving the African coast an easterly direction, without notice of its falling down to the south, the commerce of that day had not yet passed cape Guardafui.

is coupled with the iflands of Limyrike. Xi- lib. iii. p. 203. ed. Weffel.

<sup>&</sup>lt;sup>73</sup> Χερστευντιστική is by Salmafius, p. 997. τὰς αγεκεμέπες ἀντῆς τῆς Λιμωριαϊς. Perip. fuppofed tổ relate to the Chryse of Ptolemys, p. 32. i.e. Malacca, the Golden Chestonefe. But it <sup>3</sup>/<sub>2</sub> As are the Idthyophagi of Herodotus.

Single fhips", or a few in company, might have doubled that promontory and flood to the fouth, and others of the fame defcription might even have reached India. Some obscure accounts from that were possibly conveyed to Alexandria, and from that fource night have been recorded by Agatharchides, but these are all very different from his description of Sabca, and comparatively vague or obscure. Of the trade to Sabca he speaks diffindly, as a regular chabilited commerce; fo far his knowledge was genuine, beyond that it is precarious. This is an opinion collected from a full confideration of the work itself, and to which no one, perhaps, after a similar attention would refuse to subscribe.

It has been thought of importance to detail these particulars from Agatharchides, because he is the genuine source from which Diodorus, Strabo, Pliny's, Pomponius Mela, and Prolemy have derived their information. Diodorus lived in the beginning of the reign of Augustus. He has copied the whole of Agatharchides, so far at relates to the Icthysophagi, Troglodytes, Ethiopians, and Arabians, in his third book. Strabo who lived to the end of Augustus's

Agatharchides; and even in the age of the Periplâs the trade teaches no farcher than Rhaptum and Menuthias, Zangnebar, in fouth lat 6° o' o'', whereas the north point of Madagatar is in lat. 15° o' o'. Potlemy allo only goes to Pratiun, lat. 15° o'o''.

7) Pliny rather accords with Agatharchides than copies him; he feems to have gone to the fource; - those Greeks I mean who entered Ethiopia in the age of Philadelphus. See lib. vi. 24.

vi Is is everywhere separant, that Puolemy Philadelphus was more ardent in differency than his faceoffors. The Greeks who had been in Adhyflinia, as recorded by Pilley, vi ag, were all politishy fent by him, as Dálison, Antitocron, Bion, Boldiis, and Simohales; and Timothicaes his admiral had certainly gone down the coalt of Africa; for to him Pilay attributes the first mention of Cerek or Malagafors. But what is here afferred is sense only to fay, that no trade on that coast critical in confequence of this differency, as late as

reign 77, has followed Agatharchides in regard to the fame countries. in his fixteenth book, and has added little to our knowledge of Arabia, but the expedition of Elius Gallus into that country. He has little more express concerning the navigation down the coast of Africa. and eastward he stops at Sabèa with his author. coast of Gadrosia he has followed Nearchus more faithfully than Agatharchides, but has no mention of the Lackdive Islands: and the little he fays of Taprobana, is a proof that it was known by report, but not yet visited. Pliny and Pomponius Mela in many detached parts tread the fame ground, and copy the Same author.

But if Agatharchides lived under Ptolemy Philomêtor, it is natural to ask, had nothing been done during 170 years, towards further discovery by the fleets that failed annually from Egypt? The answer is, that whatever was done is not recorded; the course of discovery was doubtless in progression; but there is a great difference between effecting the discovery, and bringing it into general knowledge, or making it a part of history. It is possible, also, that the fovereigns of Egypt were more jealous of the trade than am-

77 The Romans do not appear a commer- homines, who were agents, traders, and monopolifis, fuch as lugurtha took in Zama, or the 100,000 that Mithridates flaughtered in Afia Minor, or the merchants killed at Genabum [Orleans], Cæfar Bell. Gall. and you. fee the foirit of adventure, and the extent of commerce at a fingle glance. (See also the Letters of Ciccro, while proconful of Cilicia.) Dr. Campbell, in his Political Survey, has proved their conduct on this matter in regard to Britain, and the prefent work will give a who followed the annies, who fixed in the most extraordinary specimen of it in Egypt.

cial people, because their great officers and their historians are too much attached to war, and the acquilition of power, to notice it. All, therefore, that we hear of commerce is obliquely, but the wealth of merchants was proverbial. (See Florace, lib. iii od. 6. l. 30. See Cicero, who fays, in contempt indeed, is fuch a man who was a merchant and neighbour of Scipio, greater than Scipio, because he is sicher?) But attend only to the merchants provinces subdued or allied, the Italici generis

bitious of the honour; and the later princes were more likely to cramp commerce by extortion, than to favour it by protection. The Phenicians had manifedly a flare in the profits from its commencement, and it was not unlikely that the Romans might have felt this as an additional incentive for the fubjugation of Egypt, if they had been fully informed of the means it afforded for adding to the wealth and aggrandifement of the republic.

It is not meant, therefore, to deny the extention of the voyages progreffively, either to the eaft or the fouth; for as long as there was any vigour in the government of Alexandria, the trade on the Red Sea was a favoured object. We learn from Strabo and Diodôrus, a circumstance not mentioned in Agatharchides, and probably later than his age, that the Nabathêans at the head of the gulph had molefted the fleet from Egypt by their piracies, and had been suppressed by a naval force fitted out for that purpose. This, at the same time it proves the attention of the Egyptian government to this trade, proves likewise that the sleets fill crossed the gulph from Myos Hormus or Berenscé, and did not strake down at once to Músa or Ocelis, as they did in the age of the Peripitis.

This mark of attention also adds highly to the probability, that some progress had been made to the south, down the coast of Africa; for there, from the first mention of it, there seems always to have been a mart for Indian commodities; and the port of Mofyllon, as appears afterwards by the Periplus, was a rival to Sabéa or Hadramant. Mosyllon was under the power of the Arabian king of Maphartis, in the same manner as the Portuguese south at nation masters of the coast of Africa, sifteen centuries later, and the convenience of these possessions to the Arabs is self-evident;

for as veffels coming with the monfoon, for the Gulph of Perfia make Mafkat, fo those bound for Hadramant or Aden run down their longitude to the coast of Africa; here, therefore, from the earliest period that the monfoons were known to the Arabians, perhaps much prior to Alexander, there would be marts for Indian commodities; and here it is highly probable the fleets from Egypt found them, when the Sabeans were too high in their demands.

That this commerce had taken place foon after the time of Agatharchides may be collected from Strabo, who cites Artemidôrus to prove that there was a trade on the coast of Africa as low as the. Southern Horn. He mentions, indeed, that at the ftraits of the Red Sea the cargo was transferred from thips to boats or rafts, which, though it manifests that the navigation was only at its commencement, still proves its existence. He does not name Mofyllon, but the Periplûs, by noticing that feveral articles were called Mosvilitick, demonstrates, that a commerce had been carried on at that port previous to its own age, and that Indian commodities were fought on that coast before they were brought immediately from India. If there were fuch a mart, this must be a necessary event, for in the first instance the trade of Sabéa was a monopoly, and if the fovereigns of Aden or Maphartis had opened the commerce, either in their own country or Africa, it would draw & refort thither as foon as the port could be known, or the voyage so it be effected. The date of this transaction it is impossible to ascertain, but a variety of circumstances concur to shew that it had raken place previous to the discovery of the monsoon by Hipgalue.

## HIPPALTIS.

VIII. THE discovery of Hippalus opens a scene entirely new to our contemplation; and if it has appeared that hitherto there are only two sources of information, the Macedonians and Agatharchides; if it has been shewn that all the authors between Agatharchides and the discovery, speak the same language; it will now be still more evident, that a new era commences at this point, and that the Periplus, Pliny, and Ptolemy are as uniform in one system as their predecessors were in another, previous to the discovery.

Dodwell has obferved, with his ufual acuteness, that it is no proof that the Periplûs is contemporary with the age of Pliny, because he mentions the same fovereigns, in the different countries of which it treats; for he adds, Ptolemy notices the very same, Ceprobotas in Limyfrice and Pandion in Malabar. He supposes, therefore, that the Periplûs copied Pliny or Pliny's authorities, and that the same princes might be reigning from the time of Vespasian to the reign of Adrian. But would not this correspondence of the three be equally consistent, if we suppose them all to have but one source of information? Dodwell would subscribe to this in regard to Pliny and Ptolemy, whose age is known, but he refuses this solution to that of the Periplûs, the date of which he chooses to bring down as low as Verus. Of this more in its proper place.

The truth is, that there are no data for fixing the discovery of Hippalus with precision. It is certainly subsequent to Strabo whose

death is placed 78, anno 25. P. C. for Strabo who was in Egypt with Elius Gallus must have heard of it, and to all appearance it must have been later than the accident, which happened to the freedman of Annius Plocamus, who, while he was collecting the tribute on the coast of Arabia, was caught by the monsoon and carried overto the island of Ceylon. This happened in the reign of Claudius, under whom Plocamus was farmer of the revenue in the Red Sea. The reign of Claudius commences in the year 41 of our êra, and ends in 54. Let us assume the middle of his reign, or the year 47, for this transaction, and as Pliny dedicates his work to Titus the fon of Vespasian, if we take the middle of Vespasian's reign it coincides with the year 7379. This reduces the space for inquiry within the limits of twenty-fix years. From thefe we may detract the first years of Vespasian, which were too turbulent for attention to commerce, with the two years of Galba, Otho, and Vitellius; Nero reigned fourteen, and in the early part of his reign, or the. fix last of Claudius, the date might be fixed with the greatest probability, because, if we suppose the return of the freedman of Plocamus, the embaffy that accompanied him, or the knowledge he acquired to be a cause, or in any degree connected with the difcovery, this space confined to about ten years is the most consistent of all others, to allot to this purpose ". Another fact connected. with this is, the profusion of Nero in cinnamon and aromaticks,

<sup>&</sup>lt;sup>78</sup> Blair's Chronology fays twenty-five years, A. C. which is impossible, for Augustus subdued Egypt, anno 30, A. C. and Strabo must have been in Egypt with Gailus in twenty-feven, or twenty-fix, A. C. He could not write

his work between that and twenty-five.

78 Salmafins fays, 77. 830 auno urbis condita, p. 1186.

<sup>\*</sup> Harris fixes Hippalus's discovery in the reign of Claudius, vol. i. 431.

at the funeral of Poppea. An extravagance, wanton as it is, which befpeaks fomething like a direct importation of the material. And we are likewife informed by Pliny, that he fent two centurions from Egypt up into Ethiopia to obtain a knowledge of the interior; an inquiry naturally attached to the discoveries on the coast.

The ufual date attributed to the discovery of Hippalus is the reign of Claudius. Dodwell and Harris are both of this opinion, and the latter, or rather Dr. Campbell his editor, has treated this tubject 60 ably, that if it were not necessary for the illustration of the work before us, it would have been sufficient to refer to his inquiries, rather than to tread the ground again which he has occupied. Let us assume then the seventh year of Claudius, answering to the forty-seventh of the Christian era, for the discovery of Hippalus, and the next object of inquiry will naturally be the date of the work which we are to examine.

## AGE OF THE AUTHOR OF THE PERIPLUS.

IX. The learned Dodwell and Salmafius affix two very different dates to the Peripius, and between two fuch able difputants it is easier to chuse than decide. My own observations lead me to prefer the opinion of Salmasius, but not so peremptorily as to

<sup>52</sup> Dodwell fays, in primis annis Claudii, and fuppofes that Fliny takes his account of Hippafus from a work which Claudius himfelf wrote; certain it is, that the memory of Claudius was revered by the Alexandrians, and not improbably by reason of this discovery and the profession of it.

See Pliny, lib. xii.c. 18. the paffage itieff ig obfcure, it proves that Pliny knew, (what was not known in the prior age,) that cinnamon and caffa were not the native produce of Ambia. Put it does not fully prove that the merchants imported them from more difsant marts.

fuppose the question cleared of all its difficulties, and there is a hint dropt by Dodwell, that I should wish to adopt, if I were not convinced that the author of the Periplus really visited several of the countries he, describes.

Dodwell supposes that the work was compiled by some Alexandrian from the journal of Hippalus; and so far it is just to allow, that the parallel information in Pliny and the Periplûs does not appear so properly to be copied by either from the other, as from some authority common to both. But that the author, whatever he copied, was a navigator or a merchant himself, cannot be denied, when we find him speaking in the first person upon some occasions, and when we read his account of the tides an the gulph of Cambay, which is too graphical to come from any pen but that of an eve-witness.

This author and Pliny agree in the defeription of Hadramant."
and Sabbatha, in the names of the kings and of the ports on the
coaft of Malabar, as Muziris and Cottonara, and of the Sinthus; in
the departure of the fleets from Ocelis and Cana, and a variety of
other circumflances; but their most remarkable correspondence
is in their history of the Spikenard and Costus."; both mention the
Ganges

<sup>43</sup> Certe Hippali personæ conveniunt examussim hujus itinerarii notæ. Nomen ipiumilium Alexandrium fusife prodit, nee Romanum scilicet, nec Ægyptium, sed plauè Græcum; qualia erant colonorum Macedonum Alexandrinorum. Differt p. 102.

<sup>&</sup>lt;sup>44</sup> Υπέρμιται δι δυτίκ, μισόγειος ή Ματρέπολες Επίπθαθε το χέ βαστλούς πατοκείς πας δό γεωξιαιτης το τη χωρά Υίδασος τις δυτόν διοπες διόχχειο εκάγεται ποροίλους το κή χρότας Ιστοπίαις διεμαεκάγεται ποροίλους το κή χρότας Ιστοπίαις διεμα-

virace it armin i whose. Perip. p. 15, Tus collectum Sabota camelis convehitur portà ad id una patente, digredi vià capital.

Plin. Salmaf, 492.

5 Pliny, bib. kii. c. tz. Ed. Hard. D#
folio Nardi plura dici par eft ut principale in
Unguentis. ...alterum plus genus apud Gangem
andecna; damatur in totum, Ozenitidis nomine,
virus redolens.—The firft is the Gangtica of
the Perilolis written alfo Gananica. The

Ganges and Ozêne as the marts for the former, and the Pattalene for the latter. The intelligence is undoubtedly the fame in both, and yet there is no absolute proof that either copied from the other. But those who are acquainted with Pliny's method of abbreviation would much rather conclude, if one must be a copyist, that his title to this office is the clearest. Wherever we can trace. him to the authorities he follows, we find that narratives are contracted into a fingle fentence, and descriptions into an epithet. This appears to me fully afcertained in the prefent inflance, but conclusions of this fort are not hastily to be adopted.

Pliny perished in the eruption of Vesuvius the same year that Vespasian died, which is the seventy-ninth of our êra; and if we place the discovery of Hippalus in forty-seven, a space of thirty years, is sufficient for the circumstances of the voyage, and the trade to be known in Egypt; from whence to Rome the propagation of intelligence is more natural than the reverse. But if we should be disposed, with Dodwell, to carry the date of the Periplûs down to the reign of Marcus and Lucius Verus", that commenced in 161;

latter is from the Ozene of the Periplus; which the Roman emperors, and receives presents Harduin is fo far from understanding, that he writes Ozanitidis ab 'Oçasso, quod odore foedo narcs feriat. The Coftus Pliny mentions as obtained at Patala. Primo Ratim introitu amnis Indi in Patale Infula, where the Periplus also finds it. See Perip. p. 28, 36. compared with p. 32. If these passages of the Periplàs had flood contiguous, as they do in Pliny, the proof would have been complete; feattered as they are, it is nearly fo. 86 The paffage in the Periplus runs thus:

Kapiband . . . . oungior uprobitute uf dujone Older The distronguration p. 13, that is, Charibael Dionyf, Perieg. king of Saphar, is upon friendly terms with

and embassies from them. The word emperors, in the plural, induces Dodwell to carry down the date till he meets with two joint emperors reigning together. That a plural does not require this we may learn from Dionyfius Perieg. who fays of Rome, the payar been a autor, whence Barthius draws a fimilar conclusion, that Dionyfius lived under the Antoniues; but Pliny writes, Dionyfium, quem in orientem præmifit Divus Augustus, lib. vi. 27. a clear proof that Dionysius lived under Augustus, This argument is from Voffins, Praf. ad

and at the distance of almost a century, its correspondence with Pliny is by no means equally consistent.

The strength of Dodwell's argument lies in the report of the Periplüs, concerning the destruction of Arabia Felix, or Aden", by the Romans; and the mention of the coast of Africa being subject to the sovereign of Maphartis, king of the first "Arabia. The title of first or fecond annexed to a province, is a division which certainly seems of later date under the emperors, than any period that would suit the system of Salmassus; but there is reason to suspect the text, or the rendering of it; and no authority which appears sufficient to prove that the territory of Maphartis ever was a Roman province in any age; or even if it might be so called, as being tributary, no reason can be given why it should be distinguished as the first.

In regard to the deftruction of Aden by Cefar, the author of the Periplûs fays ", it happened not long before his time. But what Cefar this fhould be is a great difficulty. Dodwell, who fupposes that it must be by some Cefar who destroyed it in person, can find no emperor to whom it can be attributed prior to Trajan. But Trajan never was on the southern coast of Arabia; he entered the country from the Gulph of Persa, but never penetrated to the southern coast by land, and never approached it from the Gulph of Arabia. It is much more just, therefore, to conclude that Aden " was destroyed by the command of Cefar, than by

<sup>5</sup>º Page 15. tainly correspondent, or very nearly fo. It is "The proof that Aden is the Arabis Pelis and unclud form for a name of a town to fit the Peripliky eeth upon the interpretation is confirmed by Pomp. Mela, libi iii. c. \$\oldsymbol{\text{c}}\$ of Adden-delicies, by Huct, and admitted by Cante, Arabis et Gaudamu.

Cefar in perion; and if so, any Cefar whose age will coincide with other circumstances may be affumed. Many probabilities conspire to make us conclude that this was Claudius.

The Romans, from the time they first entered Arabia under Elius Gallus, had always maintained a footing on the coast of the Red Sea. They had a garrifon at Leuké Komé in Nabathêaoo, where they collected the cuftoms, and it is apparent that they extended their power down the gulph, and to the ports of the ocean, in the reign of Claudius, as the freedman of Annius Plocamus was in the act of collecting the tribute there, when he was carried out to fea. If we add to this the discovery of Hippalus in the same reign, we find a better reason for the destruction of Aden at this time, than at any other. Aden had been one of the great, marts for the Indian commerce, and if Claudius, or the prefect of Egypt, was now disposed to appropriate this trade to the Romans, this was a fufficient cause for ruining Aden, in order to suppress rivals or interlopers. The jealousy or opposition of Aden to the new discovery would naturally afford ground for quarrel, and if not, the Romans knew how to provoke one whenever it fuited their intereff.

These considerations are offered as a probable answer to the weightiest of Dodwell's arguments; his long and tedious disquisition concerning Paleimundus, will defeat itself. It stands thus: having determined that the age of the Periplis must be that of Marcus and Lucius Verus, he is obliged to suppose, that the author could not have seen the work of Ptolemy, who lived in the reign of Adrian. Now the reasons for establishing the priority of the

Periplûs are these; first in going down the coast of Africa, the extent of discovery is Rhaptum, in latitude 10° 0' o" fouth; but in Ptolemy a farther progress is made to Prasum, in latitude 15° o' o'" fouth. This naturally appears a proof that Ptolemy is the later writer. But a stronger follows; the Periplûs styles Ceylon, Palefimundu, and adds, "it is the fame island as the ancients called "Taprobana"." But in the time of Ptolemy it had acquired a third name, Sálice, and he accordingly writes, "Sálice, which was " formerly named Palefimundus." It follows then, that the author who writes Palefimundus must be prior to the author who writes Sálice. Dodwell, in order to obviate this felf-evident truth, in the true spirit of system, is necessitated to argue, that the author of the Periplûs, though an Alexandrian, had never feen the work of Ptolemy, who was of Alexandria also; but that he copies Pliny, who was a Roman; and then to support this strange hypothesis, he is compelled to maintain, that the Palefimundus of Pliny is not Cevlon, or the Taprobana of the ancients, but the Hippocura of Ptolemy on the coast of Malabar. How these affertions could be deemed authentic by any one, when Dodwell wrote, is incomprehenfible, unless we calculate the dignity which attaches to erudition. But we now know that Sálice is derived from Sala-bha "2, the Shanskreet name of Ceylon, and Palesimundus, from Parashri-mandala, the country of Parathris2, or the Indian Bacchus. Both are native names, and voyagers at different times acquired both from the

Page 35.

Page 35.

Page 37.

Page 3

Padino, p. 108. Sala is manifelly the Patris. The king, fays Pany, wordings Bacroct of Salice, of Selen-dib, or Seren-dive and chus. Cerloa.

natives. When the ifland of Ceylon comes under confideration in the courfe of the narrative, more will be faid on this fubject, at prefent this is ample proof, that the merchants in the age of the author called Ceylon Palefimundus, and that in Ptolemy's age it was flyled Sálice; if Ptolemy then allows the former to be first in use, the Periplus must of necessity be prior to his publication.

Dodwell fays ", that none of Ptolemy's aftronomical observations are earlier than the pinth year of Adrian, answering to 122, A. D. If then the first year of Marcus and Lucius Verus is 161, A. D. We add nearly forty years to the antiquity of the Periplûs at one step, it could not be later than 123, and how much earlier must be the next object of our inquiry. On this head probability and conjecture must supply the place of proof. The author speaks of the discovery of Hippalus, without specifying its date, or its diffance from his own time. Some confiderable interval is manifest from his expression, when he says, " from the time of " Hippalus to this day some fail straight from Kane, &c. " but what space to allot to this interval is by no means evident. From the feventh of Claudius, the affumed epoch of the discovery, to the ninth of Adrian of, is feventy-eight years, a space in which we may fix the publication of the Periplûs, fo as best to suit with other circumftances, and there is one reason to fix it considerably previous to Ptolemy ", which is this; Ptolemy professes to derive his

p. 1186.

<sup>94</sup> Differt. p. 89.

<sup>23</sup> Page 32.
26 Prolemy, published much later, for he lived till 101 at leaft, near forty years after the 9th of Adriau.

<sup>57</sup> Salmafus writes, hinc liquet auctorem effe vetuftiffimum & longe Ptolemæo anteriorem, at the conclusion of his argument on the temple of Augustus, in Limyricè. Plin. Ex.

information from the merchants of Egypt, and the Petiplis feems to be the very work he would have confulted; if he had known it, and yet one circumflance is fufficient to prove, that it never came under his contemplation. His error of extending the coaft of Malabar weft and eaft, instead of north and fouth, is notroious; this he could not have done if he had confulted the Periplis, for there it is laid down in its proper direction. This induces a belief, that it was not published in, or near the age of Ptolemy, but so much prior as to be neglected, or from its compass and contents not to have obtained much notice at the time of its publication. It is not easy to account for Ptolemy's difregard of it on any other ground, unless he knowingly slighted it, and preferred the accounts of later voyagers.

But in order to see the state of things suitable to the internal evidence of the Periplüs, we must take a view of the Romar government in Egypt. Egypt became a Roman province in the year thirty before our era, and from the moment it was subdued. Augustus planned the extension of the Roman power into Arabia and Ethiopia, supposing that Arabia produced spices, and Ethiopia, gold, because these were the articles brought out of those countries into Egypt. The avidity with which this plan was adopted may be conceived by observing that, within ten years after the reduction of Egypt, Gallus had penetrated into the heart of Arabia, and Petronius had advanced eight hundred and seventy miles above. Syênê into Ethiopia, and reduced Candáce the queen of that country to the condition of a tributary.

The expedition of Petronius is fixed to a certainty in 21,

A. C. because the embassadors of Candáce found Augustus ar

Samos,

Samos, where he was that year; and that of Gallus" was contemporary, because his absence with a part of the troops of the province was the inducement for Candace to insult the government. And it must have been but a very few years after this, that Strabo went up to Syéne with Elius Gallus", who was then become presect. Upon this occasion he observes, that he was informed an hundred and twenty ships now sailed from Myos Hormus annually for India, whereas, under the Ptolemies, a very sew only had dared to undertake that voyage".

The embaffies from Porus and Pandion to Augustus, mentioned with fo much oftentation by the historians, afford confiderable proof of the progress of Roman discovery in the east; and the vessels which conveyed these embassadors from the coast of Malabar must have landed them either in Arabia, or in the Gulph of Perfia, or the Red Sea; the conveyance also of the freedman of Plocamus back again from Ceylon to Egypt, proves that the voyage was performed previous to the discovery of Hippalus. therefore, to the affertion in the Periplus we ought to suppose that none of these conveyances were performed by means of the monfoon, unless we should allow the vessels to be Indian or Arabian, for both these nations appear visibly to have known the nature of these winds long before the Romans were acquainted with them. From these circumstances we may collect the extreme defire of Augustus to extend his knowledge and his power towards the east, and though the inert reign of Tiberius, or the wild tyranny of Caligula, furnish no documents of a further progress.

<sup>99</sup> Strabo, lib. xvii. p. 819.

we may conclude, that the prefects of Egypt were ftill intent on promoting a difcovery once commenced, and with which the emoluments of their own government were fo immediately connected. We must suppose, that the Roman sleet was superior in the Red Sea and on the southern coast of Arabia, before any of the powers on that coast could become tributary, and tributary they indubitably were before the reign of Claudius, or Plocamus could not have been farmer of the revenue.

When the freedman of Plocamus returned from Ceylon, if he came in a Roman veffel he muth have coafted his whole voyage; but as the king of Ceylon fent four embaffadors with him to Claudius, and a rajah "\* to take charge of the whole, we must conclude that they came in an Indian veffel to Arabia, and that the freedman learned the nature of the monsion in the course of his navigation; this is so near in point of time, that we cannot be mistaken in supposing it, connected with the attempt of Hippalus, and in confequence of it, the revolution in the whole course of Oriental commerce.

The advantage which Claudius made of this discovery, and the profecution of it is beneficial to Egypt, rendered his name dear to the Alexandrians; his writings were rehearded in their museum, and the account he gave of this commerce is justly believed by Dodwell to be the source of Pliny's information. "."

It is this circumstance which above all others induces me to fix the destruction of Aden under Claudius, or at latest under Nero, whose

Nea Principe corum Rachia, Pliny. I have 163 Dodwell, Differt, p. 93. from Suctomins no Paolino, that Rachia is Rajan. 164. https://dx.as.py.order of Claudius. 42. But this was not their own Ach, it was by order of Claudius.

mind was equally fixed on Ethiopia, Arabia, and India, as the fountains of all the treasures of the east. The more important every ftep grew in pursuing this commerce to the fource, the greater temptation there was to suppress every power which could come in competition. One thing is evident, Aden was not destroyed by any Cesar in person; for we cannot find in all history a Cesar that ever visited the southern coast of Arabia. If it was by the command of Cesar, it suits no one so well as Claudius or Nero, or if they are too early, there is no other but the reign of Adrian to which it can be attributed. Adrian was in Egypt himself; his system was all directed to regulation and improvement of the provinces; this might be a part of his plan. But there is nothing in the Periplus itself to make us adopt this period and much to contradict it.

It has been necessary to investigate this fact with accuracy, because the date of the work depends upon it; for at whatever point we fix the defruction of Aden, very near to that we must fix the Periplus; as the author intimates that it was not long before the period in which he writes. It is not fatisfactory to leave this question resting upon probabilities only. But where history is filent, probability is our only guide, and correspondent circumstances are the best foundation of probability.

From these premises the reign of Nero appears most accordant to the internal evidence of the work itself, or if the reign of Adrian should be preferred, it must be the year he was in Egypt, which is the tenth of his reign, and answers to the year 126, A.D. The objection to this is its coincidence with the age of Prolemy, which for the reasons already specified can hardly be reconciled

reconciled to confiftence. I affume, therefore, the reign of Claudius for the difcovery of Hippalus, and the tenth year of Nero for the date of the Periplûs, leaving the queftion ftill open for the inveftigation of those who have better opportunities for deciding upon its precision.

## INTERCOURSE WITH INDIA ANTECEDENT TO HISTORY.

X. In entering upon this fubject two confiderations prefent themselves to our view, which must be kept perfectly separate and distinct: the first is, that the intercourse itself is historical; the second, that the means of intercourse can only be collected from circumstances: the former admits of proof; the latter is at best hypothetical. I can prove that spices were brought into Egypt, which implies their introduction into all the countries on the Mediterranean,) and I argue from analogy, that Thebes and Memphis in their respective ages were the centre of this intercourse, as Alexandria was afterwards, and as Cairo is, in some degree, even at the prefent hour.

That fome Oriental fpices came into Egypt has been frequently afferted, from the nature of the aromatics which were employed in embalming the mummies ""; and in the thirtieth chapter of Exodus we find an enumeration of cinnamon, caffia, myrrh, frankincenfe, flactè, onycha, and galbanum, which are all the produce either of India or Arabia. Mofes speaks of these as precious, and appropriate to religious uses; but at the same time in such

<sup>104</sup> Mummia, or Mumia, was once a medicine, certainly not on account of the cudaverous but the aromatic fubiliance.

quantities "5, as to flew they were neither very rare, or very difficult to be obtained. Now it happens that cinnamon and caffia are two species of the same spice 106, and that spice is not to be found meaver Egypt or Palestine, than Ceylon "of, or the coast of Malabar. If then they were found in Egypt, they must have been imported; there must have been intermediate carriers, and a communication of fome kind or other, even in that age, must have been open between India and Egypt. That the Egyptians themselves might be ignorant of this, is possible; for that the Greeks and Romans, as late as the time of Augustus 107, thought cinnamon the produce of Arabia, is manifest. from their writings. But it has been proved from Agatharchides. that the merchants of Sabêa traded to India, and that at the time when Egypt possessed the monopoly of this trade in regard to Europe 108, the Sabèans enjoyed a fimilar advantage in regard to Egypt. Of these circumstances Europe was ignorant, or only imperfectly informed; and if such was the case in so late a period as 200 years before the Christian êra, the same circumstances may be supposed in any given age where it may be necessary to place them.

There are but two possible means of conveying the commodities of India to the west, one by land through Persia or the provinces on the north, the other by sea; and if by sea, Arabia must in all

n Antfarbesa nin restrant hat to mote and implegive its, and gound too; lettle. Alexandria has the whole monopoly to herfelf. She is the receptacle of all [Indian] goods, and the dif-

<sup>103</sup> Five hundred shekels of myrth, five hundred of cassia, two hundred and fifty of cinnamon.
105 See article Kassa in the lift of

articles of commerce.

107. See Strabo, lib. xvi. paffim.

ict Kal yag of nal popuration for. Mila yag

penier of them to all other nations. Strabo, lib. xvii. p. 708.

ages

ages have been the medium through which this commerce passed, whether the Arabians went to Malabar itself, or obtained these articles in Carmania, or at the mouths of the Indus.

In order to fet this in its proper light, it is necessary to suppose, that the spices in the most fouthern provinces of India were known in the most northern, and if from the north, they might pass by land; from the south, they would certainly pass by sea, if the sea were navigated. But in no age were the Persians Indians, or Egyptians, navigators; and if we exclude these, we have no other choice but to fix upon the Arabians, as the only nation which could furnish mariners, carriers, or merchants in the Indian ocean.

But let us trace the communication by land on the north: it is only in this one inflance that I shall touch upon it; and that only because it relates to an account prior to Moses. Semiramis "is said to have erected a column, on which the immensity of her conquests was described, as extending from Ninus or Ninive, to the Itamenes, (Jómanes or Jumna,) eastward; and southward, to the country which produced myrrh and frankincense; that is, eastward to the interior of India, and southward to Arabia. Now, fabulous as this pillar may be, and fabulous as the whole history of Semiramis may be, there is still a degree of confishency in the fable; for the tradition is general, that the Affyrians of Ninive did make

<sup>100</sup> It is not meant to affert that these and Chiacse. The Chinese probably never pations never used the sea; they certainly slid, passed the straits of Malacca, the Malaya upon their own coasts, but there are not now, feer in all ages to have traded with India, nor does hillory prove that there ever, and probably with the coast of Africa.

any navigators, properly fo called, in the and Bochart, tom. i. p. 100. from Dio-

an irruption into India; and the return of Semiramis " through Gadrosia, by the route which Alexander afterwards pursued, is noticed by all the historians of the Macedonian. If, therefore, there is any truth concealed under this history of Semiramis, the field is open for conceiving a constant intercourse established between India and the Affyrian empire, and a ready communication between that empire and the countries bordering on the Mediterranean. This intercourse would account for the introduction of the gums, drugs, and spices of India into Egypt, as early as the 21st. century before the Christian era ", and 476 years antecedent to the age of Mofes.

But this is not the leading character in the accounts left us by the Greek historians"; they all tend to Phenicia and Arabia. The Arabians have a fea coast round three sides of their vast peninfula; they had no prejudices against navigation either from habit or religion. There is no history which treats of them, which does not notice them as pirates or merchants by fea, as robbers or traders by land. We feareely touch upon them accidentally in any

\*12 When two fables of two different comp provinces which afterwards composed the the Grecian accounts of Semiramis and the Mahabhárat agree.

tries agree, there is always reason to suppose. Persian empire. It is this conquest in which that they are founded on truth : the Mahabhárag is perhaps as fabulous as the hiftory of Semiramis; but this work (in Col. Dow's account of it,) specifies, upon a variety of occasions, the great attention of the Indian fovereigns to pay their tribute to their western conquerors. I cannot trace this to its causes or confequences, but it always feems to juflify the idea, that there had been fome conquest of India, by the pations which inhabited those

<sup>112</sup> Semiramis, A. C. 2007. Mofes in Midian 1531. Blair.

<sup>113</sup> Herôdotus, lib. iii. p. 250. reckons up frankincenfe, myrrh, cassia, cinnamon, ladanum, (a gum,) and storax as the produce of Arabia; these commodities were brought into Greece by the Phenicians. See also p. 252.

author, without finding that they were the carriers of the Indian.

Sabêa". Hadramant, and Oman were the refidence of navigators in all ages, from the time that hiftory begins to fpeak of them; and there is every reason to imagine that they were equally so, before the historians acquired a knowledge of them, as they have since continued down to the present age.

It is furely not too much to admit that a nation with these dispositions, in the very earliest ages crossed the Gulph. of Persia from Oman to Carmania: the transit in some places is not forty miles; the opposite coast is visible from their own shore "; and if you once land them in Carmania, you open a passage to the Indus, and to the western coast of India, as a conclusion which follows.

I grant that this is wholly hypothetical; but where hiftory ftops, this is all that rational inquiry can demand. The first history to be depended on, is that of Agatharchides. He found Sabba, or Yemen, in possession of all the splendour that a monopoly of the Indian trade must ever produce, and either here or at Hadramant or Oman it must ever have been; these provinces all, lie within the region of the monsoons, and there is every reason to imagine that they had availed themselves of these in the carliest ages, as well as in the latest. I conclude that their knowledge in this respect is prior to the building of Thebes; and that if the monopoly on the

<sup>114</sup> Hadramant is the Atrombtis of the Greeks; it is nearly centrical between Sabéa and Oman on the occan. Oman is the eaftern part of Arabia, towards the Gulph of Perfia.

he Sabea is Yemen, on the Red Ses, but extends, ea or did anciently extend, to the ports on the ocean, as Aden, &c.

13. Strabo lib. xvi. p. 769 et. fcc, 99

reaftern fide of the Red Sea was in their hands, that on the western fide was fixed at Thebes. The fplendour of that city, still visible in its very ruins, is in no other way to be accounted for: it is exactly parallel to the case of Alexandria in a later period; for Alexandria did not trade to India, the monopoly was still in Sabêa when Agatharchides wrote, and the monopoly at Alexandria was as perfect in regard to the Mediterranean, as that of Sabéa was in regard to the Indian ocean. The wealth of the Ptolemies was as pre-eminent as that of the Thebaick Dynasties, and the power and conquests of a Philadelphus or Euergetes "6 less fabulous than those of Sesonchosis.

That the Grecian Dynasty in Egypt tried every experiment to evade the monopoly at Sabêa, is manifest from history. ftraits" of the Red Sea were passed, the ports of Arabia on the ocean were explored, the marts on the coasts of Africa were visited. Indian commodities were found in all of them. A proof direct, that the monfoon was at that time known to the Arabians ", though history knew nothing of it till the discovery of Hippalus: that is, till 200 years later: this is the more extraordinary, as the fact had been afcertained in part by the voyage of Nearchus, and as all its consequences would have been explored, if Alexander had lived another year. I always wish to be understood as never afferting

feription, he had reduced the whole world one infrance, and that in a very different region. to peace. Sefonchofis could do no more.

<sup>167</sup> Strabo, lib. zvi. p. 773.

monfoons in the Oriental writers; but as my acquaintance with them by translations only, if not of China.

<sup>116</sup> Euergetes fays, in the Adulitick In- must be very confined, I have met with only Ventus marinus (ex integris mentibus regnat

in illo, [mari tenebrofo,] et tum in alium ven-118 I had expected to find an account of the tum convertitur. Al. Edniffi, p. 34 . the Mare Tenebrofum is at least east of Malacen,

that the voyage between Egypt and India was utterly unpractifed by the Greeks; the evidence is clear, that some few vessels performed it, but they coasted the whole way "9: the greatest number is that mentioned by Strabo of an hundred and twenty thips. The expence of fuch a navigation did not answer; it was found cheaper to purchase Indian goods in the old markets: the paffage by the monfoon was never . attempted; and the folitary fact of all history, which I can discover. previous to: Hippalus, is that in the fabulous account of lambulus. I believe that fact, not as performed by lambulus, but as an evidence that some such passage had been heard of, that an obscure . notion prevailed that it was made from the coast of Africa, and that, therefore, it was interwoven with the piece to give the fable an appearance of reality. I believe it to have had its rife from Arabia; and it is one proof among others, that the Arabians did reach India . prior to history, and a fufficient reason why the Greeks found it. cheaper to purchase their cargoes in the Arabian markets, rather ; than to go to India themselves. A truth certainly, if the Arabians failed with the monfeon, and the Greeks coasted the whole; voyage.

These confiderations taken in the mass, induce a belief that in ; the very earliest ages, even prior to Moses; the communication with India was open, that the intercourse with that continent was : in the hands of the Arabians, that Thebes had owed its splendour;

certainly fully mean to fay, that a confiderable for Pliny expressly fays, that the ports on the ... fleet went to India, but not till the Romans coalt of Malabar were only beginning to be were mallers of Egypt; and whether they known in his age. In what way they failed : performed the suphole voyage, or only to previous to the Periphas will be noticed in its .. Arabia for Indian commodities, is a queftion, proper place. If we suppose them to reach the mouths of the

<sup>119</sup> Huspaniforms. Periplus. Strabo does Indus, it is the fell extent that can be required;

to that commerce, and that Memphis rose from the same cause to the same pre-eminence. Gairo succeeded to both in wealth, grandeur, and magnificence; all which it must have maintained to the prefent hour, if the discoveries of the Portuguete had not changed the commerce of the world; and which it does in some proportion still maintain, as a centre between the east and the Mediterranean. The effential difference between these three capitals and Alexandria, proves past contradiction, the different spirit and fuperior fystem of the Greeks. These three capitals were inland for the fake of fecurity: a proof that the natives never were navigators or fovereigns of the fea. The Greeks were both; and the capital of the Ptolemies was therefore Alexandria. Their fleets were fuperior to all that had ever appeared on the Mediterranean; and the power of their kingdom fuch, that nothing but a fuccession of weak and wicked princes could have destroyed it. While Egypt was under the power of its native fovereigns, Tyre, Sidon, Aradus, Cyprus, Greece, Sicily, and Carthage were all enriched by the trade carried on in its ports, and the articles of commerce which could be obtained there and there only; the Egyptians themselves were hardly known in the Mediterranean as the exporters of their own commodities; they were the Chinese of the ancient world, and the ships of all nations, except their own, laded in their harbours.

The fyshem of the Ptolemies was exactly the reverse. Alexandria grew up to be the first mart of the world, and the Greeks of Fgypt were the carriers of the Mediterranean, as well as the agents, factors, and importers of Oriental produce. The cities which had rifen under the former fyshem, finak filently into inliguisficance; and

fo wife was the new policy, and so deep had it taken root, that the Romans, upon the subjection of Egypt, found it more expedient to leave Alexandria in possession of its privileges, than to alter the course of trade, or occupy it themselves. Egypt, in strict propriety, was never a Roman province, but a prefecture, governed, not by the fenate but the emperor himfelf. No pretor or proconful ever had the command; no man above the equefician order was ever prefect; no Roman 120 ever entered the country without the express licence of the emperor. These circumstances are particularized to shew the wisdom of the Greeks in their establishment of the fystem, and the wisdom of the Romans in contenting themselves with the revenue, rather than the property of the country ". This revenue, amounting to more than three millions sterling, they enjoyed for more than fix hundred years ""; and till the moment of the Arabian conquest, Alexandria continued the fecond city of the empire in rank, and the first, perhaps, in wealth, commerce, and prosperity.

These considerations are by no means foreign to our purpose: it is the defign of this work to exhibit the trade with India under

120 One charge brought against Germanicus than that of any native or foreign dynasty not mythological; and this fovereignty, notwithflanding particular intervals of tyranny. does from upon the whole to have been exer-

cifed for the good of the people, which is the end of all government. When Egypt fell, its prosperity, though impaired, was probably fuperior to that of any other province of the empire. The revenue I take at a medium from the calculation of Strabo, who fays, that

by Tiberius, was his going into Egypt without permiffion. 124 It does not appear that any Roman in Egypt was allowed to engage in commerce. In

the early part of their government at leaft, all the names we meet with in the trade of the Red Sea, Africa, and India, are Greek: Arrian, Dioayfius, &c. &c.

<sup>122</sup> It is the stability of the Roman conquests which difting nithes them from those of other nations. If we place the meridian power of Rome in the age of Augustus, it was 700 years in rifing, and 1400 years in falling. The lovereignty of Egypt, for 600 years, is of greater duration

under Auletes, the worst of the Ptolemies, it was 2.421.875 L; but he adds, that the Romans managed it to much greater advantage, and even doubled it. Strab, lib. xvii. p. 708.

every point of view in which it was regarded by the ancienta; but if it were not my determination to clofe my refearches with the voyage of Gama, I could now flow how a contrary policy has brought the richeft country in the world to its prefent flate of mifery. Policy, I fay, because, though the discovery of Gama must have injured Egypt, it could not have reduced it to desolation. It is the conquest of Selim, and a divided power between the Porte and the Mameluks, which has funk a revenue of three millions to a cypher "i; a policy, in fact, which has cut down the tree to come at the fruit, which is not content with the golden egg, but has killed the bird that laid it "."

183 There is a tribute paid by the Mame. Inks to the Pacha of Egypt, but it never that country only while under its native forecaches Confantinople, as there are always regim. As fubject to the Perfunn, Macedo-charge to fet off against it.

hat has been faid in regard to the Egyptians the vacancy of the prefer place, what has been faid in regard to the Egyptians the vacancy of the prefer page allows me to never appearing in the Mediterranean as a naval

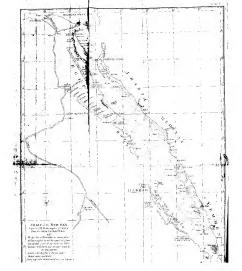
The names of places will be diffinguished by capitals in the margin; in which form the Greek found and Greek orthography will both be preferved. The Latin or modern orthography will be followed in the text, to avoid the appearance of fingularity.

## Marks of tones.

' The accent, as Azánia.

'The note when e final is pronounced long or fhort, as Calpè.

The note of a long vowel or diphthong in the Greek, as Opônè, Nêssa, Niloptolemeon, Kuenîon.



# PERIPLUS

OF THE

# ERYTHREAN SEA.

# воок и.

Introduction. — I. Myor Hormus. — II. Berenice. — III. Inland Navigation to Coplus. — IV. Ptolemán Therbn. — V. Aduli, Abyfinia. — VI. Dira, Straits of Bab-el-Mandeb. — VII. Abalitès. — VIII. Malo. — IX. Mindt. — X. Mofyllon. — XI. Niloptoleméon. — XII. Marts, Topatégè, Daphnéna Micron, Elephas Prom. Rivers, Elephas, Daphnéna Megan, or Acanuai. — XIII. Tabai. — XIV. Opénè. — XV. Apécopa. — XVI. Little Cogft, Great Cogft. — XVII. Scrépión, Nicón, Seven Rivers. — XVIII. The New Gunal or Mambaça. — XIX. Rhapta, or Quiloa. — XX. Menúthéfas, or Zanguebar Jlands. — XXI. Prafum of Ptolemy. — XXII. Menúthias of Ptolemy. — XXII. Limit of Ancient Difeovery. — XXIV. Heródotus. — XXV. Ptolemy. — XXVII. Voyages of Diaz and Gama. — XXVIII. Arabian Settlers Ancient and Modern on the Coaft of Zanguebar.

" Orientalem oram Africa fulcavit Auctor Peripli, cujus auctoritas majoris cft " facienda quam casterorum omnium, utpote qui folus veritati confentanea

" feripferit." Vossivs ad Melam. p. 595. ed. Varior. Lugd. 1722.

The object proposed for confideration in the second book is the navigation of the ancients from Myos Hormus in the Gulph of Arabia, to the Promontory of Rhaptum on the coast of Africa. Myos Hormus lies in the twenty-seventh degree of northern latitude, and Rhaptum will be fixed near ten degrees to the southward of the equator; consequently we have a space of above two thousand five hundred miles to examine, involved in such obscurity, that without recourse to modern discovery, the navigation of the ancients is inexplicable.

The Periplûs, which has been affumed as the bafis of our difquifition, has a claim to this preference, not only as the most ancient but the most specific account extant; for notwithstanding particular places may have been noticed in treatises of a prior date, the line of coast which it embraces is to be found no where previously in detail; and the circumstances which it particularizes bear such a stamp of veracity, as to affure us, that if the voyage was not performed by the writer, it is at least delineated from authentic documents.

<sup>2</sup> Ptolemy writes both Rhapta and Rhaptum, the Periplus always Rhapta, plural-

I. The furvey commences from Myos Hormus', a port chosen by Ptolemy Philadelphus for the convenience of commerce, in preference to Arsínoè or Suez, on account of the difficulty of navigating the western extremity of the gulph.

The name of this port shews its origin to be Greek: it fignifies the harbour of the Mouse; an appellation which it afterwards changed for the harbour of Venus. But the former is the more prevalent, and the latter is recorded by Agatharchides only and his copyifts. Its fituation is determined by three iflands, which Agatharchides mentions; known to modern navigators by the name of the Jaffateens, and its latitude' is fixed with little fluctuation in 27° o' o", by d'Anville, Bruce, and de la Rochette. The prefumption in favour of de la Rochette's accuracy is natural, as he had the charts and journals of feveral English navigators before him, and the position of the islands " with the indenture of the coast, is such as would sufficiently correspond with what the ancients called a port. Strabo describes the entrance as oblique', which was perhaps effected by the fite of the island at the entrance; and he notices that the ships which sailed from Berensce lay at this port till their cargoes were prepared.

II. The fame reason which induced Philadelphus to form the port of Myos Hormus, led him afterwards to the establishment of Berenice, Berenike?

rocks above water.

<sup>2</sup> De la Rochette has made two ports of the Myos Hormus and Aphrodites Hormus of chette. Strabo, but they are both the fame, if Strabo is to be interpreted by Agatharchides, whom he copies; his translator indeed fays, Muris flatio aliaque Veneris, but the text does not require the diffinction. See Hardouin, not. ad ib. vi. Plin. cvi. The Myos Hormus of de la Strab. ibid. Rochette I should prefer for the true position.

<sup>3</sup> Ptol. 27° 15' 0". 27° 8' 0". by de la Ro-4 Hennis In di vious reis. Strabo, xvi. 769. The Jaffateens are more than three; but the fmaller ones are perhaps little more than .

<sup>5</sup> Διμένα μέγαν, τζι ζιταλών έχοντα σκολέν.

with this additional motive: that being in a lower part of the gulph, it facilitated the communication with the ocean, or the coast of Africa, and lay more convenient for taking advantage of the regular winds within the straits, or the monfoons in the Indian ocean. The plans of Philadelphus, indeed, feem to have been larger than either he or his fucceffors carried into execution; he had evidently fent travellers to penetrate into the interior by land, while his fleet was exploring the coaft. Pliny mentions the names of Dálion, Aristócreon, Bion and Básilis", as visitors of Ethiopia; and Simonides as residing five years at Meroè: while Timosthenes' went down the coast as far, perhaps, as Madagascar, but certainly lower than the fleets of the Ptolemies traded , or the Roman fleets in the age of the Periplus. The account of Agatharchides, who lived in the reion of Philométor, goes no lower on the western side of the gulph than Ptolemáis Thêrôn; and in his time the commerce seems so generally to have fettled at Myos Hormus, that no mention of Berenice occurs in the whole work'. Under the fuccessors of Philometor, this

6 Plin. lib. vi. c. 25.

7 There is fome reason to hesitate in giving eredit to Timosshenes, as he says the Red Sea is two days fall across and four days sall length. Plin. ib. vi. Four days (sil to enot an error of Pliny's) cannot day (sil to enot price for a course of nine hundred miles. See Fragm. Artem. Hudson, vol. i. p. 88.

This is fimilar to what has happened retieve to our own difcoveries. Sir F. Drake explored the welfern coatt of America, to the north of California, where no navigator followed him till almost 200 years after, when the English, Russians, and Spaniards have intersed with each other in Nootka Sound-Ha the Same manner all other Carthaginias

commerce on the coast of Africa settled at Cerne, though Hanno had gone much farther to the fouth.

Notifier does Dieddrus notice it, who wrote, perhaps, extry in the reign of Augustus, and followed Agustharchides. But Strabot is diffuse, and he adds one particular which may account for the filence of Agustharchides, which it, as yes have just noticed, that Bernick, though a fintion, was no port. The humbur was at Myos Hormura and the flips lay there till they came to Berenick for their lading. The Periphta also feens, almost to join the two together, at the commencement of the Arabina voyage.

trade languished rather than increased, nor was it reinvigorated till the conquest of Egypt by Augustus.

The connexion between Myos Hormus and Berenice, from which ports the navigation commenced, requires more confideration than has been bestowed upon it by those who have preceded me in the inquiry.

Bereníce, according to the Periplûs, was diffant eighteen hundred stadia from Myos Hormus, which, if the author reckons ten stadia to the Roman mile, (as d'Anville supposes) amounts to one hundred and eighty; or if he reckons eight, we obtain two hundred and twenty-five miles, for the interval between the two ports; both estimates are too short, as the distance from the northern Jassateen to Ras-el-anf " is little less than two hundred and fixty miles Roman. Without infifting upon this, Ras-el-anf is the leading point to fix Berenice, for this is the Lepte Promontory of Ptolemy, on which Berenicè depends. " The land here," fays Bruce, " after running " in a direction nearly N. W. and S. E. turns round in shape of a " large promontory, and changes its direction to N. E. and S. W. " and ends in a finall bay or inlet." Now this agrees exactly with the polition afligned to Berenice by Strabo, in the very inmost recess of his Sinus Impurus. It may feem extraordinary", that the name of Foul Bay " flould appear in our modern charts in this very foot.

<sup>10</sup> Cape Nofe.

<sup>12</sup> Auditagree is rendered improperly by im-

<sup>&</sup>lt;sup>14</sup> From the appearance of Fool Bay, on paramond inserveirs. It is like ally both here declined and the control of the best of the paramond inserveirs. It is like ally both here declined and the control of the paramond of the control of the control of with the ancient Sinus impurus is consistent the contlo data, but do breakers. Associated by d'Aurillea as well as de la Rochette. See hieres. And graphs have declined and the control of the large conglet, in my opinion, to decease the control of t

and marked with the shoals and breakers which entitled it to the same appellation in the time of Strabo. But such is the fact, and de la Rochette's chart " gives us a small anchorage or inlet in the very bottom of the bay, which he ftyles Mine, or Belled el-Habesh's, the port of Abyffinia. These circumstances are farther corroborated by the chart which Mercator extracts from Ptolemy, and by Ptolemy's own distances in longitude and latitude from Leptè. Col. Capper's has supposed that the fite of Berenice cannot be determined, and d'Anville has placed it nearer to Leptè; but in this, it is probable he was determined by the latitude of Syênè, for both are supposed to be tropical, and Col. Capper has possibly not applied his fuperior information to this object. I fix it at the port of Habesh, not from latitude, but local relation. For Syênè is in latitude 24° o' 45", and this port is in 23° 28' o", according to de la Rochette. If then we were to be determined by the tropick, the port of Habesh is more tropical than Syênè. But the ancients were by no means accurate in these coincidences. Meroe and Ptolemáis are ftill less reconcileable than Berenice and Svêne; and yet the respective correspondence of the four places was admitted. I am much more led by existing eircumstances than these estimates: a coast falling in, as described by the original voyagers, and a port found at the termination where it ought to be, tend more to ascertain a position when ancient accounts are to be considered, than astronomical calculation. But I do not affert the identity, I know the difficulties, I know that the Topaz island of Strabo is

D'Anville has the fame, and Bruce the pay.
 Mine and Belled both figuify a fort or
 Mine and Belled both figuify a fort or
 Figure 57.

dubious , but as a choice is necessary, I select the port of Habesh for Berenice, and I trust the solution of the problem to further inquiry.

Both from Myos Hormus and Berenice, the fleets failed for Africa and Arabia in the month of September; and for India in July "; dates which agree admirably with the regular winds, as flated by Bruce. For, in the first instance, if they cleared the gulph before November, they in that month fell in with the wind, which carried them down the coast of Africa, and which ferved them to return in May. And in their voyage to India, sailing in July, if they cleared the gulph before the 1st of September ", they had the monsoon for nearly three months to perform the voyage to the coast of Malabar, which was generally completed in forty days.

III. But before we enter upon our navigation we must examine the previous preparations in Egypt, commencing our inquiries from Alexandria, the head and centre of all the commerce between India and Europe for seventeen centuries.

<sup>&</sup>lt;sup>15</sup> There was a Sapphie, an Emendá, and a Topas ilhand in the Red Sea; all three give rife to much fable and much uncertainty. Strab's Tupas Illand is the fame as this Serpentine. Whether both sames ought to relate to the ifinad at Rasel and, I cannot fay. That ilhand is the Macouar of Bruce; the Emil or Emendal Iliand of de la Rochette, the Infala Veneris of Ptolomy. Strab's Tupas ilhand is lower than Beenrick. It may be the modern Zemorgets, the Agathonia Inf. of Ptolomy, but the conflicion is callefte.

<sup>17</sup> See Periplûs, p.p. 5, 13, 29, 32. The

author mentions the Egyptian as well as the Roman months Tybi, January; Thoth, September; Epiphi, July. A proof that he was a refident in Egypt if not a native, and that he wrote for the traders in that country.

<sup>18</sup> This is fixed to a certainty by Pliny, who fays, they failed at the rifing of the Dog-Star, July 26, and reached Okelis in thirty days, from whence to Muziris the voyage is usually performed in forty days. Lib. vi.

<sup>&</sup>quot; Eighteen, reckoning from the death of Alexander.

The principal merchants, who carried on this commerce both under the Ptolemies and the Romans, refided at Alexandria; and though the Ptolemies, for their own interest, might allow others to employ their capital in this trade, and the Romans certainly would not suffer themselves to be wholly excluded, fill the standing law of the country was, that every merchant must employ an Alexandrian factor for the transaction of his business; and this privilege alone, with the profits of the transport, is sufficient to account for the immense wealth of the metropolis, exclusive of all other advantages.

In the latter end of July the annual or Etcfian wind commences, the influence of which extends from the Euxine Sea to Syène in Upper Egypt. Blowing from the north it is directly opposite to the course of the Nile, and prevailing for forty days while the river is at the height of its swell, it affords an opportunity of advancing against the stream, with more convenience than other rivers are navigated in their descent. With the affistance of this wind, the passage from Alexandria up to Coptus was performed in twelve days, which, as the distance is above four hundred miles", sufficiently proves the efficacy of the wind that carried them.

Two miles from Alexandria, fays Pliny, is Juliopolis, where the navigation to Coptus commences; an expredion not very intelligible without the affiftance of Strabo. For why fhould he mark the departure from Juliopolis rather than Alexandria? Strabo informs us, that the veffels navigated a canal, which extended from Alexandria?

<sup>20</sup> The revenue of Alexandria, in the worft of times, was 12,500 talents, equal to lowing for the finuofity of the river.
2,42,1873, Retling. Strab. xvii. 798.

andria to the Canôpic branch of the Nile, at the junction of which was Schédia; here all the duties were collected on goods which paffed upwards into Egypt, or down the Nile to Alexandria. This canal" in its course almost touches Nicopolis", (a city so called from the victory obtained here by Augustus over the forces of Antony,) and which, by its distance of thirty stadia", must be the Juliopolis of Pliny. It is probable, therefore, that before the time of Pliny, the Cultom-house had been removed from Schédia to this place.

It is then by the Canôpic branch, now almost neglected, that vessels passed up to Memphis, and thence to Coptus. Coptus was a city in the age of Strabo who visited it, common to the Arabs 4, as well as the Egyptians; it was not actually on the Nile, but connected with it by a canal, and was the centre of communication between Egypt and the Red Sea, by a N. E. route to Myos Hormus, and a S. E. to Berenice. Upon reference to the map the reason of this is evident. The river bends here towards the east, and in proportion to its inclination shortens the distance of land carriage. Coptus is feated almost in the centre between Ghinne and Kous. Ghinne is the ancient Kæne 4, and is the modern point of

<sup>30</sup> This canal has fill water in it during the inundation, and boats pais.

<sup>23</sup> See Dion. Cassius, lib. ii. p. 28c. Lat.

<sup>24</sup> Strabo, lib xvii. p. 795.

<sup>\*:</sup> The prefent government of Egypt is divided between the Turks, the Mammelues, and the Arebs. The Turks, though fovereigns, have the leaf finare. The Mammelues have twenty-four beys, nominally dividing the whole country from the fea to Syène, all-

powerful at Cairo, but never complete as to their number in the country, and fluving their influence with the Arab fields. The Roman government was firm and imperious, but even under that, at appears from this paffage of Strabo, the Arabs found means to infinuate themselves for the power at Coptus, and, as we may from this circumfluence conclude, possibly in other sheets.

<sup>24</sup> Kassa works, Neapolis, or the new city, by its name evidently of Greek extraction.

communication with Cofeir of; the port on the Red Sea, where the little commerce which remains is carried on between Upper Egypt and Arabia. Kous arose in the middle ages from the same cause, and became the principal mart of the Said 18. These three places all lie on the same curvature of the river, and all grew into importance at different periods, from the fame cause; the necessity of conducting land carriage by the shortest road.

It has been already noticed, that notwithstanding Berenice was built by Philadelphus, the route of the caravan thither, and the port itself were little frequented, as long as the Ptolemies reigned in Egypt. The first mention I can find of it is in Strabo, and he visited the country after it was under the power of the Romans. The Romans faw what Philadelphus had defigned, and they had the penetration, from their first entrance into the country, to reap the advantages which his fucceffors had neglected. In the course of fix or feven years an hundred and twenty ships sailed from this port for India 49; thefe, indeed, were but a finall part of the whole.

miles from Cofeir to the Nile, vol i. p. 234. Brown rode it on dromedaries in three days.

27 D'Anville, Geog. Anc. vol. iii. p. 33. 29 It has everywhere been supposed, that fingle thips did fail both to India and Africa by coasting, previous to the discovery of Hippalus; it has everywhere been allowed that the Arabians traded to India, and the Indians to Arabia, and probably with a knowledge of the monfoon. But this passage of Strabo's stands alone as an evidence, that a fleet failed from Egypt directly to India If it did fail. it must still have coasted the whole way. But might not Strabo, from knowing they brought home Indian commodities, have fupposed that they failed to India, when in reality they went no farther than Hadramant in Arabia, or Molyllon on the coast of Africa; where they found the produce of India ?-

17 Irwin reckons one hundred and fifteen. I do not approve of contradicting the affertion of any intelligent author, fuch as Strabo ; but I recommend it to the confideration of better judges, whether a circumftance of this magnitude ought to be established on a finele passage. It is also to be noticed, that Arabin was sometimes called India by the ancients, not from error, but because it was on the other fide of the Red Sca, and because the commodities of India were found there. So Indorum promontorium in Juba, the fame as Leptè Acrè is Ras al anf, whence the trade to India commenced. Indos Juba vocat Ælthiopas, Troglodytas. Flardouin, not. ad Plin. vi. 34. but Hardouin is mistaken, and probably Juba. It is the Indian Cape and Port, fo called from the Indian trade at Berenice. In what fenfe the fleets failed from Egypt to India, will be confidered at large in the fourth book.

The bulk of the trade fill paffed by Coptus to Myos Hormus, and continued in the fame courfe till the period in which the Periplûs was written; this is the principal reafon which induces me to believe that the Periplûs is prior to Pliny, and affign it to the reign of Claudius, or Nero; for Pliny is the first that specifies the stages of the caravan, or gives us reason to believe that Berensce was the grand centre of commerce. That it was not so when the author of the Periplûs wrote is evident, because he commences his route from Myos Hormus to a proof that he considered it as the first port of departure.

Pliny on the contrary never mentions Myos Hormus in the passage where he details the voyage to India ", nor does he notice it at all, except once incidentally, where he is describing the western coast of the Red Sea". A proof that it was as subordinate in his time, as it had been pre-eminent before.

Every detail that is now extant, of the road from Coptus to Berenice, is Roman; as that of Pliny, the Itinerary of Antoninus, in the Peutingerian tables, and the anonymous geographer of Ravenna.\*\* There is no Greek account of it extant but Strabo's, and he vifited the country after the Romans were in poffefion. His information, therefore, is Roman's, it fpecifies particulars of which other Greeks were ignorant; but it falls thort of what the Romans relate themselves. He mentions only that

<sup>30</sup> Αλλὰ τον κ Κοστά; καὶ ὁ Μυὸρορμος Ἐνδοκμῶι doubt, as there are no circumstances to afcernal χερότει τοῦς τόσους τότους. Strab. lib. xvii. tain it.

p, 815. See a very remarkable passage in 35 Lib. vi. c. 26.

Ptolemy, lib. i. c. 7.

21 Whether Myos Hormus and Berenice

31 Lib. vi. c. 33.

24 Lib. ii. p. 755.

<sup>22</sup> Whether Myos Hormus and Berenice 24 Lib. ii. p. 755. in ed. Var. Pomp. may have been comprehended in the mention Mcla.

of one as conjectured above, must remain a 35 Lib. xvii. p. 815.

Philadelphus opened this route with an army", and that as it was without water, he established poss, both for the convenience of those who travelled this way on business, and those who conveyed their goods on camels.

If it should be thought that this is faid from any defire of amplifying the industry or penetration of the Romans, let it be observed, that Augustus reduced Egypt into a province, in the year 30 before the Christian era, and that in less than fix years Petronius had penetrated into Ethiopia, and reduced Candácè queen of Meroè or Atbara: that Elius Gallus had been fent into Arabia with the fame view of extending the knowledge and power of the Romans: and that the fleet failed from Berenice instead of Myos Hormus These transactions Strabo relates as an eye-witness, for he accompanied Elius Gallus to Syénè. And in the interval between the conquest of Egypt and the reign of Claudius, a period of 71 years. there is every reason to suppose, that a province so productive, and a commerce fo advantageous, had never been neglected. But it was not till the discovery of the monsoon, which we place in his reign, that all the advantages of Berenice would become obvious. This would by degrees draw the concourse from Myos Hormus; it had not operated effentially in the age of Strabo; the change was beginning to be felt when the Periplûs was written; it was fully effected in the time of Pliny.

<sup>&</sup>lt;sup>5</sup> The roal between Coptus and Myos deep wells had been funk, and eiftern formed the depriles more particularly. A for holding water, as it founctions, though proof that it was better known. It was fewn reight days journey, formerly performed on camela in the night by obfervation of the flams, rais, and carrying water with them. Latterly very

The annexed table, compared with the map, will now shew all that is necessary to be known, better than narrative; and as it is obvious that the names are Greek, we must suppose that they are fuch as were first given, upon opening the communication by Ptolemv. however unnoticed by the Greek writers; or that the Greeks of Egypt were employed by the Romans in forming the establishment. The mention of the Troglodytes agrees with their history. as it has been admirably illustrated by Bruce : they are the Shepherds fo much noticed in the early history of Egypt, who every year conduct their flocks and herds from the plains of Ethiopia, aerofs the mountains of the Red Sea, to avoid the fly, that fcourge of their profession. They have done this in all ages; they do it to the prefent hour; their habitation is confequently temporary, and-, if they found caves 37 or hollows in the rocks, these they would occupy, as their name implies. Tribes of this kind also are naturally plunderers, and the guard necessary to defend the carayan in passing their country, is correspondent to the circumstances of their profession and situation. If we add to this the passage of the mountains, evidently marked in Pliny, we have all the particulars that Bruce enumerates; and an evidence of that range. which he has depicted as extending parallel to the coast, from the sea of Suez to the main of Africa. Below this range there feems to be a level towards the fea like the Tchama of Arabia. and the Ghermelir on the Gulph of Perlia; and I conjecture that

<sup>&</sup>lt;sup>27</sup> Bruce found Troglodyres actually living Upper Egypt, and the herds paffing at Senin caves in Gojam; he faw these caves in naar.

Tifebárikè<sup>3</sup>, the name which the Periplûs gives to the tract in the neighbourhood of Berenícè, expresses this very level, and correfponds with the Tehama of Arabia.

I have already noticed that Berenice lies nearly in latitude 24°, and have now only to add, that by the concurrent teltimony of the Periplûs and Strabo, the anchorage was a bay and a road, but not an harbour.

28 Tecan-barrek is faid by Capt. Franck- low country on this coaft. Mr. Jones interin, author of a Tour in Perfia, to he full a prets Barcek in the fame manner on the coaft familiar phase in the Perfick for Jings and thim, of Perfia, as Gezint al Barcek, the Low Island-It will allo bear the fente of low and Jing, and Stuckius reads, Yi Agedack, for Trackaged. See in that fente he (puppofe it applied to the Stuckius and Huddon, Geog Min. Periph. p. s.

#### STATIONS

#### BETWEEN COPTUS AND BERENIGH

#### (N. B. the Numbers are reconciled by the Commentators.)

tations	PLINY.	Miles		Var. lett.	PEUTINGER.	Miles,	v	ar. left,	ITINERARY	Miles.	
1.	Hydrican, or Hydraums.	XXXII.	33	XXII	Phasice-	XXII	21	Xn.	Permicorniconon (* our saire saire).	XXVII.	27
11.				,	Aptrodites [Esigns].	XXIV.	24		Didyme [Kripes].	XXIV.	9.4
HI.	In monte, a day's journey.	XXXII-	32		Didymos.	XX.	20		Afrodito [i.e. Apirrosises K. jun].	XX-	20
ĮV.	Hydrium, 95 miles from Copeus.	XXXI	31		Compaña [90 miles from Coptus].	XXV.	25	XV.	Compari.	XXII.	21
V.					Dios [Kéjue].	XXII	22		Joris (Kajun).	XXIII.	2;
VL	in monte, a day's journey.	XLIV.	44		Xeron [without water].	XXIV	9.6		h Aristonia [Kujun].	XXV.	29
VII.					" Phylocon [estáno asper].	XXIV.	24		Falstro [agadem].	xxv.	2.5
VIII.	Hydotum Apolitris, 184 miles from Coptes.	XLV.	45		Apolitanos [Kajus,] [184 miles from Copcus].	XXIV.	24		Apelionos, [xépe-]	XXIII	21
ıx.	In monte, a day's journey.	xxv.	25		Caban.	XXVII	27		Cabali [Cabalan, d'Anville].	XXVII.	27
x.	Serum Hydrium, 234 miles from Coptus.	XXV.	# S	exxx.	Kenon Niferuma, [Kaniv Tājasus,] [235 miles from Coptus]	XXIV.	24		Kienon Didectors [Kanie "Physica].	XXVII	2.7
X1.	Troglodyticum Hydrèum, a guard.	IV.	4	AII			Г				_
XII.	Berenice, 158 miles from Coptus.	xx.	10		Pernicide percum [Berenson parcus].	XXII	21		Berenisin.	XVIII	
			= CR	1			* 2 (8				26

## REMARKS.

days are employed in this loamey; and the caravan moves chiefly in the	Ber
night. Thus his three first starts are four days journey; his two next	fere
four days; and his four laft ought to be three; for Pentinger and the	lim
Itinerary make eleven days journey. And, perhaps, one ought to be	PR
added to all at Phylocon; for the guard was polithir to exact the cultures,	1 4
na mod en en recorde.	from
By PEny's account the guard was a protection against the Trogladytes.	Ka
on the carit. Convenience required it, perhaps, to be moved inland, in	har :
4 later are.	000
A Dildring precedes Antendret in the Dinesers. A noted that the	

transposition of names of flations is no unusual error even in su- which occur, thence decoments \* The roard, according to Pentinger and the Itingrapy, is on the pai-

s of the mountains. According to Pliny, twenty miles only from I the Guight of Arabia to the ocean, Diod. lib. ili. 200, ed. Wef. Salma. resize. Different causes might operate to make the change in det. fins. File. Ex. 1154. est times. The Tropledytes, always robbers, might charge their when the property of the prope on the river, in latitude ug" 50', twelve or footness miles from Eord, mae, Chings, from whence the samens paffer at this day to Colleir, a much flority roote. This route is nearly the fame as the assistate to Myon Hormes. See Zoute, itwis, vol. 1, 204. CXXX, a corruption of CCXXX, CCXXXIII, or CCXXXIV, all

\* Berostic and Pernicide, naurical or commercial comparison of Reveones. The fort for the guned was two miles out of the road, in mice, a city to called from Berneice, mother of Ptokeny Philadelphia. Pluny, vi. 33.

A Two laundred and fifty-right suffer. D'Anville's map gives two modates? Besenice is under the fame parallel as Syene, 24° o' 45". Coptus les in age go', it ffill emits as Kalt. N. B. The whole table, except the explanations between brackets, in

in the originals, as flated by Salmatius, p. 1784. Antiquits An Arithma is mentioned by Diodecus as first to furway of Meta has their names.
 Antiquits An Arithma is mentioned by Diodecus as first to furway of Meta has their names. Lib, ii. p. 755, with variations.

## FROM BERENÍCÈ TO PTOLEMÁIS THÊRON OR EPITHERAS.

IV. South of Berenice, in the tract of low country between the mountains and the fea, called Tifebarike, is the habitation of the Troglodytes, efteemed as Ichtyophagi or Fift Eaters, who live in the clefts and caverns of the mountains, differfed and independent. They are inclosed by more inland tribes, who are diffunguished as Akridophagi "and Mockhophagi, titles which imply that their food is locusts and veal. A strange peculiarity! but as locusts are no uncommon food either on the coast of Africa or Arabia, so, perhaps, the latter diffinction intinates a tribe that fed on the brinde ", or seeficture out of the living animal, so graphically described by Bruce". These tribes are under the regular government of a king.

Below the Mofkhophagi lies the little town of Ptolemáis Thêrôn, fo called from Ptolemy Philadelphus, who fent his hunters here to procure elephants for his army. Here the true shell of the land tortoife is to be procured. It is white ", with a small shell, and in no great quantity. The elephants also are small, like those obtained at Addil.

<sup>&</sup>lt;sup>39</sup> By a comparative view of these in Agatharchides, the site we should allot to them would be in Nubia or Sennaar, or between those places and the mountains which line the

coaft.

4º Perhaps the title of Kenapayon, which Strabo confers on this or fome neighbouring tribe, is equivalent. See Agatharchides, p. 40. Hudfon.

<sup>41</sup> A paffage follows which is imperfect. It feems to deferibe another tribe fliff more inland, and well of the Mofkhophagi. Compare with Agatharchides, p. 36, et feq.

<sup>\*\*</sup> Annob purportion not detráncis, rendered by h Hudfon, Candidam minoribus tellis præditam. I See also Perip. p. 17, where this interpretation is confirmed.

This place has no port, and is approachable only by boats. It lies about four thousand stadia from [the harbour which is established for] the reception of such articles of commerce as are brought from beyond the straits", that is from Berenice. This distance agrees with Ras Ahehaz, or Ageeb, where d'Anville places it, if we reckon the stadia, as he does, ten to a mile. The cape is laid down in latitude 18° ar', by de la Ruchette; 18° 10', by Bruce.

If this be true, the ancient geographers must be greatly mistaken, who place it under the same parallel with Merod, to which they allign 16°25'. This parallel is of great importance: it was traced by Eratosthenes to whom we owe the doctrine of parallels. And it is assumed by Ptolemy as a distinguished line both in regard to Syéné, and to the parallel of Prasum, which was the boundary of his knowledge, and which he lays down as many degrees to the south, as Meroè is to the north of the equator.

If then we could fix the position of Ptolemáis by reference to the parallel of Meroè, it would give consistency to the Periplus, in a passage where the measures are more difficult to reconcile than in any other part of the work, for according to de la Rochette

Minch-Beled-el-Hbefh, or Berenícč, is in lat. 23° 16′ 36″ Ras Ahchaz, or Ptolemáis - 18° 31′ °′ Mafua, or Adûli - 15° 46′ °′

4) Accesso că wêşe ră alexaştă, cătâna a Re, which infinates gouerully any commonl, principio fisms. Hudion. Which cannot ie tis housepit from beyand the flush, text targ in say, festfe, for whether the beginning the Periplia confinutly the commodities of the city, egulph be taken from the tartus, as Moğrilika confi, or kingion of Add; and Hudion doubtlefs means, or from the fas of the port clabilitied for the importation or Sysex, this cătange, egunob he reconcided,. We reception (-assayah) of their commodities have that frequent occurion to notice the experitorii, fracepe for grafos, fracepe for grafos, fracepe for a weap, how the mediatedy prefitos, fracepe for grafos, fracepe for a weap, to recept the commodities.

84

which gives the distance from Berenice to Ptolemais three hundred and fifty-four Roman miles, and from Ptolemáis to Adûli two hundred and twenty-five; making a deficiency upon the measures of the Periplûs of one hundred and twenty-one out of five hundred and feventy-nine, if we reckon ten stadia to the mile Roman. ances are, four thousand stadia from Berenice to Ptolemáis, and three thousand from Ptolemáis to Adûli. It is this deficiency which has induced Mr. Goffelin" to carry the Aduli of the Periplus to Affab, or Saba, contrary to the opinion of all former geographers. and contrary to the local circumstances of Adôli, so strongly marked by our author.

The removal of Adûli from Mafua to Saba, and of Ptolemáis from Ras Ahehaz in 18° 31' 0" to 16° 58' 0", are therefore mutually connected in Mr. Goffelin's fystem; and as this brings Ptolemáis within thirty-two minutes of the parallel of Meroè, the whole would be reconcileable if we could make the measures of the Periplus accord; but this is impossible "; and here Mr. Gosselin is led into a great error, the cause of which I do not readily discover; for he says, that the Periplûs reckons from Adûli to the Straits of Bab-el-Mandeb eight hundred fladia. This is another miftake: for the Peripl's marks the termination of these stadia at a very deep bay where the Onfian

returned from the prefs for correction, that I reserved, by favour of Major Oufeley, Mr. Gafa Alin's work, Recherches fur la Geographie des Ansiens, published in two volumes, at Paris, in 1798; and of which only a very few copies had at that time reached England. However we differ on the whole of the Perithis, I was happy to find we agreed upon the fubject of the circuin-

savigation of Africa, and I have reconfidered this

<sup>44</sup> It was at the moment that this fleet was article of Ptolembis in order to advert to the soints on which we differ. In regard to the remainder of my work, it was finally arranged and fettled. and I can only notice our difagreement by a note inferted on from particular occasions. I have found no reason upon the whole to abandon the ground which I had taken.

<sup>45</sup> Sec Goffelin, Recherches, tom. ii. p. 1966

ftone is found 46, and from that bay mentions expressly the commencement of the inclination which the coast takes to the east 47, and which it continues till it joins the straits: all this is true, if Aduli is fixed at Masua, and false, if it is carried to Saba, or Assab. The Periplûs, therefore, is confiftent in its description, and inconlistent in its measures; and to which of the two the preference ought to be given will hardly be disputed by those who know the little certainty of all numbers in a Greek manuscript, and how much all printed texts are corrected by circumstances before they can be made confiftent.

The real position, therefore, of Ptolemais Theron cannot be determined from these data; but if we relinquish the measures of the Periplûs, and fearch for it by the parallel of Mcroc, we meet with many curious particulars to compensate for the digression, and furnish means for the reader to determine for himself.

Meroè, as the first parallel of Eratosthenes, became an object of the greatest impertance to all the geographers and astronomers who fucceeded; and if there is any one point more than another upon which we can suppose them to have searched for accuracy or acquired it, it is this. Ptolemy places it in 16° 24' o"; or, as it appears in his tables48, 160 25' o"; but in his eighth book, he fays, the

division into seconds; but if Meroè were in latitude 16' 24' 0", the line would be drawn through 16° 25' 0". This twelfth is expressed in the different copies of Ptolemy as or sa, or is and is supposed to be ten and two, that is, twelve, or one twelfth. But the commentators and editors are not agreed upon the furficient; they have therefore no more minute form of writing or manner of explication,

<sup>45</sup> Peripl p. iii. 47 Ibid, p. v.

<sup>43</sup> The text flands is. y. fa. which the Latin reads 15° 26' 0"; but it is 16° 3=20° 1 = 5. that is, 16° 25' 0". The ancient geographers thought, if they approached precision within one twelfth of a degree, or five minutes, it was

the longest day at Meroè is thirteen hours, (which makes the latitude 16° 24'3) and the fun is vertical twice a year, when he is diffant (both upon his approach to the tropic and his return,) 45° 20' 0", from the folfitial point. This statement of forty-five degrees must be older than Ptolemy; for Pliny mentions that the fun is vertical at Meroè forty-five days before, and forty-five days after the folftice, in which he feems to follow Philo ", and then adds, that on thefe two days the fun is in the eighteenth degree of Taurus, and the fourteenth of Leo.

Now in this paffage there are two errors; for first, forty-five degrees are not the same as forty-five days, as there are three hundred and fixty-five days in a year, instead of three hundred and fixty, which there ought to be, to make the two agree; and fecondly, the place of the fun is militated, both upon his approach and his return, for by a calculation of Mr. Wales's, with which he favoured me a few days before his death, it appears,

"That the fun, at this time, is in the eighteenth degree of " Taurus, forty-four days before the folftice, which would give " 17° 13' N. for the latitude of Meroè. And in the fourteenth

five minutes See lib. i. c. 10, das Magne. . . . ir. v. ic, the fame which is written in the tables, i. v. v. ia. rendered by Montanus, diffat partibus sequalibus fedecim et tertia cum duodecima.

49 See Bruce, vol. iv. p. 540, and Strabo, lib. ii. p. 77. where mention is made of Philo. who wrote an account of the navigation into fore the fummer folftice. He is noticed as p. 582. Hard. Plin. lib. ii. c. 75 not. 67.

though they all interpret it one twelfth, or remarking the shadows of the Gnomon, and agreeing with Eratofthenes. Some authority of this fort Pliny must have followed, as Ptolemy was posterior.

Pliny is reproached unjustly by Salmanus. Plin. Ex. 424, as faying that the fun is vertical for ninety days at Meroc. It will appear fufficiently from this statement that he makes no fuch affertion; and the miftake of Ethiopia, [by the Nile,] and who mentions Salmafius is reprehended by Voffius and Harthe vertical fun at Meroe forty-five days be- douin. See Vossius ad Melam. ed. Varior. " of Leo, forty-fix days after the foldlice, which gives 16" " 26' N.

"Or again", if we take the other flatement of Pliny, forty-five days before the folitice, the fun is in the feventeenth degree of "Tarura, which makes the latitude 16' 57' N. and forty-five days after the folltice, the fun is in the thirteenth of Leo, which "eives 16' 73' N."

Since the communication of this statement, calculated only for the place of the sun at the present day, the bishop of Rochester has added to the many former kindnesses I have experienced from his friendship, and derived from his comprehensive view of the science, the following particulars:

the following particulars:

"Nothing is affured by Ptolemy but what is strictly true, that at
equal distances from the fossitial point, on one side and the other,
the fun has equal declination. He gives us in this passage two
distinct principles for determining the latitude of Merco<sup>2</sup>; the
length of the longest day, and the distance of the sun from the
fossitial point, when he culminates in the zenith of the place.
The two principles agree sufficiently in the result, and the latitude
which they give agrees with the latitude of Merco<sup>2</sup>, as deduced
from other principles, and stated in other parts of Ptolemy's
works.

"The distance of the sun from the solftitial point, when he culminated in the zenith of Meroè, he tells us was 45° 20'. The

<sup>&</sup>lt;sup>52</sup> To Mr. Weles I was known only by the sad not without a tribute of gratitude to the courtefy of intenture; but find was his love, memory of a man, who was sa excellent in of feience, that I never confided him without printed life, as an humband and a faither, as he receiving every siffinance that it was in him was entiment in the federec he profeffed, the power to give. I infert this as his last favour, triend and compassion of the illustrious Cook.

"Obliquity" "Obliquity"

"obliquity of the ecliptick at that feafon of the year, in the year of our Lord one bundred, was 23° 40′ 50°; the fun's declination, therefore, at the diffance of 48° 20′ from the fummer foll-tital point would be 16° 24′ 3″ N. and fo much was the latitude of Meroë; "for when the fun is vertical at any place, the declination of the fun and the latitude of the place mult be exactly equit.

" But he tells us alfo, that the length of the longeft day at Meroè
" was thirteen hours; and I find by calculation, that in this latitude
" of 16" 24' 3", the longeft day muft be exactly twelve hours fifty" nine minutes and twenty feeonds, wanting only forty feeonds of

"nine minutes and twenty feeonds, wanting only forty feeonds of thirteen hours.

"Again, assuming thirteen hours for the length of the longest day, I find the latitude exactly corresponding to be 16° 34′ 27″.

"But this consirms the conclusion from the former principles, notwithstanding the excels of 10′ 24″; because the phænomenon of a longest day of thirteen hours would certainly take place in a somewhat lower latitude, the day being lengthened, in all latitudes, several minutes, by the double effect of the horizontal refraction."

Having thus established the latitude of Meroè upon Ptolemy's principles, it will not be foreign to our purpose if we examine the measures in Strabo, according to the estimate of Eratoshenes; for notwithstanding all measures of this sort are precarious, still, when they come within a few minutes of coincidence, the approximation is more fatisfactory than the disagreement offensive. The account stands thus:

The parallel through the Cinnamon country, which was the last parallel of the early geographers, is north of the equator The fame parallel is fouth of Mcroe 3000 Therefore Meroe is north of the equator 1,500

Now Eratofthenes" reckoned feven hundred studia to a degree; and if we divide eleven thousand eight hundred by seven hundred, it gives for the latitude of Meroè 16' 51' 34", differing from Ptolemy only 27' 34", which is an approximation the more remarkable as Ptolemy reckons five hundred stadia to a degree, and Eratofthenes seven hundred; and this circumstance may give rise to a conjecture, that Strabo had a map of Eratofthenes before him, and measured off these degrees from the parallels of that geographer, by the compasses, we should do at the present hour.

But we have another coincidence between the measures of Pliny and the observations, which is equally remarkable; for Pliny has preserved the report of two Roman centurions sent into Ethiopia by Nero, who reckoned eight? hundred and seventy-three miles from Syènè to the confluence of the Nile and Assiboras, and seventy from the confluence to Meroè. The former number we must exhaust by supposing that the centurions followed the winding of the river, which Pliny specifies; and upon the latter, where the distance is so small, there can be no material error; seventy Roman

<sup>51</sup> Ει δὶ τις ἱις τρεπείατα ἔξύκοντα τμύματα τέμει τὸν μέγισο τῆς γῆς κύκλου, ἔγου ἐντακοτίαν γαδίας ἐκαστον τὰι τμαμάταν. Strab, lib. ii. p. i 42.

<sup>25</sup> It is remarkable that this measurement by fladin, carried on to Sydne, and reckoning that place five thousand fladin north of Meroè places it in latitude 24° o' o', which Bruce fixes by repeated observations in 24° o' 45°.

<sup>37</sup> Thefe numbers vary in the copies to eight hundred and ninety-two, and rine hundred and twenty cight, but with this difference we are not concerned at prefent. Bruce reclaims againft them as earrying Merce to Gojam; but if meatured by the river, which is remarkably tortuous in this part of its courfe, the numbers are not too high.

<sup>4</sup>º Pilay mentions the places which occur on each fide the river in their progress to Morely and he adds, that their are very different from the name given by the Greeks, whom Picany Philadelphia tent into the time country, and much fewer; this defication, he observed, and much fewer; this defication, he observed, and the process of the properties of the periodous wars between the Egyptinon and Ethiopians. But at he mentions likewife, lib. vi. 2-34, 35, that the inhabitants on the Nile, from Spine to Mercel, were not Ethiopians but Arnbs, may we not conclude, that the cause of defolation was imputable to them in that arg east its a preferrit See Bruce, iv, 330.

miles then approach within five of a degree, which, as we have no ancient map to guide us, we may try by the feale of Bruce. Bruce had good inftruments, and had been long practifed in observation; but he was ftruggling for his life, and his observations must have been hastly: fill as we have no better, and no traveller is foon likely to correct his errors if he is mistaken, we are entitled to use his statement till a better can be obtained. He fixes

Herbagi in 14° 30′ 0″. Halfaia 15° 45′ 54″. Long from Greenw. 32° 49′ 15″.

Gerri 16° 15' 0". Chendi 16° 38' 35", Long. 33° 24' 43".

Fifteen miles N. of the junction at Gooz, that is, the confluence of the Nile and 17° 57' 22" 55.

Aitaboras

In confequence of these observations Bruce places Meroè at Gerri, or very near it, as corresponding best with Prolemy. And for the faune reason he might have preferred Chendi, which differs but five minutes more. A queen reigning there, and the title of Hendaque, suggested to him the name of Candácè, and the queen of Meroè. But he had reason afterwards to conjecture that he found the remains of Meroè at a village called Gibbainy, for here he discovered ruins "which were evidently Egyptian or Ethiopick, and such as he had seen no where from the time he left Axum. He likewise found an island in the Nile called Kurgos by the natives: and such an island, which served for a port to Meroè, Pliny mentions by the name of Tadu". These circumstances are so connected, that if it

figned for the flatter of the dog, pieces of ras, abelle LXX millia palfoum. Jurraque

<sup>51</sup> By repeated observations of the sun and obshifts, hieroglyphicks. The Araba mentioned flars, make for sevend succeeding days and statues of men and animals, all of black flone.

18 Julium Oppidium Mercon ab introitu in
18 Vol. iv. p. 538. Broken pedellali desules, [i.e. aloco ubi confluunt Nilas et Altabo-

were not carrying the latitude too far north, we might prefer his conjecture to his position of Meroe. There is yet another sact still more appropriate; for if his observations are accurate, and he has placed the confluence of the two rivers exact, the diffance from the confluence to Gibbainy measures upon his map as precifely fifty minutes as possible; an approach so near to the seventy Roman milesof Pliny ", that no greater accuracy can be required. It is true that this correspondence will depend on the correctness of Bruce's observations; but if they are faulty, who shall be the traveller to correct them? It is true also, that Bruce's latitude of Gibbainy is 17° 4' 0", which is forty minutes to the north of Ptolemy's position, a difference, perhaps, not too great to counteract the evidence derived from the island in the Nile, if there be none in a higher part of the river to. correspond. And now, if it should ever be the lot of a future traveller to tread this arid foil again, at this point his fearch for Meroè should commence : and if no ruins were found farther to the

alam infulam Tadu dextro fubeunthus aleco [i. c. Nilo] quæ portum faceret. I. Ædificia oppidi pauca. II. Reguare fæmånam Candacem quod nomen multis jam annis ad reginas rtanfiit. Delubrum Hammonis et ibi facrum. III. Et tot tractu facella. Plin. lib. vi.

Befdes the evidence this paffing gives for an idiand at Mero's, it contains fome features common to Ethiopia, Nubia, and Abyffinia. I. A Ædificia oppid pance, is a circumfance as applicable to Gorden and Seronaar nows, as to Mero formarly. II. Condick's the name of the rot formarly. II. Condick's the name of the dice's counch was haptized by Philip. Bure found the name of Hendaqué diffic activity. III. Toto tractu facella. In Abyffinia the churches does of the thirty, that the ferrice could be does for thirty, that the ferrice could be heard from one to the other, as is noticed by the fefuits and confirmed by Bruce. In thefe respects, therefore, the manners of all these nations appear fimilar. Pliny notices, in another paffage, that they had forty-five kings; a fivong characteristick of Abyssinia, perhaps, rather than Meroc. The temple of Hammon, Strabo informs us, had been neglected by the Romans, and the superstition despited. In his age, therefore, the Oafis itself of Hammon had fallen to decay. It might still, however, preferve its reputation among the Meroites. See Strabo, lib. xvi. p. 815. Meroè is called Naulababe, the mother of ports, by the Egyptians; Neuba, by the natives; and Saba, by the Abyffinians. Marmol, vol. i. p. 45. 58 Seventy-five to a degree.

fouth, he might greet Bruce as the discoverer of Meroè, an honour which, perhaps, would be less disputed than his pretentions to the first discovery of the sources of the Nile. We ought not to be ungrateful to those who explore the defert for our information: Bruce may have offended from the warmth of his temper, he may have been miffed by afpiring to knowledge and to fcience which he hadnot fufficiently examined; but his work throughout bears the internal evidence of veracity, in all inflances where he was not deceived himself, and his observations were the best that a manfurnished with such instruments as he had, and struggling for life, could obtain; they therefore deserve respect; and if we should be disposed to adopt his conjecture, rather than his position, from the circumstances before us, the extreme difference between him and the ancient aftronomers is 16° 24' 0", and 17° 4' 0", a disagreement, perhaps, less allowable in this instance than most others, but still excufable, from the imperfection of all ancient observations depending on the shadow of the Gnomon, and the length of the day, and those of Ptolemy more especially.

If by flating there particulars relative to the latitude of Meroè, we could have obtained the position of Ptolemáis, we should not liave to ask the reader's pardon for the digression; but all that we pretend to deduce from it is, that Ptolemáis cannot be fixed at Ras Ahehaz, or Ageeg, where it is placed by d'Anville and Bruce. The Shumeta, or Nubian Forch, which was the feort of the elephants, when Etolemy built the city, and continues so to the present hour, is supposed to commence in the neighbourhood of that Cape, in latitude 18° 31' o", which difagrees more than two degrees with Ptolemy, and nearly one and an half with the conjecture of Bruce. If we descend

the coast a degree and a half, we arrive at a bay in the middle of the Nubian forest, the lower point of which is nearly in latitude 17° 6' 6'; a correspondence with Bruce's conjectural parallel of Meroe, so near as to be fatisfactory. On a projecting point of this fort. Ptolemáis was built by Eumedes'', and secured from the natives by a foss carried round the angle from sea to sea; and if this situation should appear reasonable, from the deductions we have been so desirous to state, a better spot for procuring elephants cannot be chosen.

There is not a wish to conceal the uncertainty of this conclution: the coast is little visited by any European vessels, and the charts of our best Hydrographers are therefore lefs to be depended on: Strabo's account agrees better with the measures of the Periplüs, and the assumption of d'Anville at Ras Ahchaz. If the distance in the Periplüs from thence to Aduli had been equally consistent, it would have been conclusive; but the whole is now determined by the parallel of Meroè, which the ancients carry through Ptolemáis, and we cannot well attribute to them an error of two degrees, on a point better established than almost any other whatsoever.

Mr. Gosselin carries it fill lower, but without a cape, or any circumfance to mark the spot. And it is to be remarked, that he is so attached to his own estimates, for correcting the latitudes of Ptolemy and the other ancient geographers, that he pays little respect to local circumstances and the characteristick features of the coast. As I cannot dispute this matter on every point where we differ, I shall observe here, that his, want of attention to the text appears no where more conspicuous than at Aduli and Arômata, two places

which the Periplus marks with diffinctions that cannot be miftaken. and which Mr. Goffelin transforms or displaces with great violence. The confequence is, that he is obliged to have two Adulis, for which there can be no warrant either in history or geography.

With whatever errors my arrangement of the coast may be chargeable, I truft it will only affect individual politions: the general outline I am perfuaded is true. I fubmit it, indeed, with less confidence to the public fince I have perufed the Refearches of Mr. Goffelin. But I shall not relinquish the ground I have taken in a fingle inflance. I trust to the investigation which I have patiently purfued under every difficulty, and I leave the iffue to the judgment of those who are competent to decide.

It is necessary now to observe, that the hunting of elephants established at Ptolemáis is confirmed by Agatharchides, Diodórus, Strabo, and other authors. The manner of hamftringing these animals was an art as perfectly understood by the ancient barbarians 60, as by Bruce's Agageers; and the relish " for the flesh of the elephant is an indelible characteristick of the nation. Ptolemy would have redeemed the life of the animal at any price, as he wanted elephants for his army; but he met with a refusal from the native hunters, who declared they would not forego the luxury of their repast for all the wealth of Egypt 62.

according to Agatharchides and Strabo. A

circumstance to peculiar that it can belong to

<sup>60</sup> See Strabo, lib. xvi. p. 772. Diodor.

lib. iii. p. 161.

Abyffinia or this coast only. 61 They bucesn it, according to Bruce; that is, cut it into thin stripes and dry it in 62 See Agatherchides, p. 14. Hudfon, the fun.-They cut it from the living animal, Goog. Min.

### ADOULI.

V. FROM Prolemáis, the next port we are conducted to by the Periplús is Adúli, at the diffance of about three thousand fladia; a space by no means agreeable to the difference between Ras Ageeg and this place<sup>48</sup>, as little inore than two degrees of latitude intervene, which produce short of an hundred and forty miles, where we ought to find three hundred. This we are informed was a regular and established port<sup>48</sup>, and it can be no other than the celebrated harbour and bay of Masuah, so well known by the accounts of the Jesuits and of Bruce, as the only proper entrance into Abyssima.

It is not my intention to enter farther into the detail of this country, fo extraordinary and now fo well known, than I am led by the claffical authorities before me; but they are fo numerous, and fo conflitent with modern accounts, that to neglect them altogether would be reprehensible.

The Bay of Massach or Adûli has an extent of fix miles, and is "open to the north east". It contains two islands, upon one of which the town of Massach stands, and which, from its vicinity to the main, must be that of Diodôrus, as it is called in the Periplûs; so near, says the

occur in the Periplûs, and it is impoffible that a fouth-well could floudd lie open to the fouth-well, perhaps, yard dorby o'z News, "as you fail or direct your courfe to the fouth." This idiand is fo called from Diodôrus a former navigator, as we may suppofe, and perhaps the Diodôrus Samius mentioned by Ptolemy, lib. i.c. o,

<sup>63 15° 35′ 5″.</sup> Bruce, iii. p. 31.
4. Τιμαθέραν σύμμου, perhaps, Γιήθια Portur, in contradiffinction to-Ptolemáis and Berenice, which were not ports but roads.

<sup>65</sup> Bruce, iti, p. 63:

<sup>&</sup>lt;sup>26</sup> In the Periplûs, κατ' οἰντὸ τὸ Νότου, which of necessity we must render fecundum Notam; as κατὰ τὰν διξίου, à destrà. I know not that the usage is justifiable, but other inflances will

author, that the fea was fordable ". And the natives took advantage of this to attack the hips at their moorings. For this reafon the merchants had afterwards preferred anchorage at another island, called Orine, or the Rock, at twenty miles distance from the coast ", which answers to the Dahalac of Bruce, or one of its dependencies". The two islands in the bay are called Sheik Sede and Toualhout, and for the former, which is a title manifelly therived from a Sheik's tomb, De la Rochette has found the name of Dúli ", still bearing a refemblance to the ancient Adúli.

At twenty fladia from the shore, and opposite to Orine lay Addii, which was a village of no great extent; and three days' journey inland was Koloe'', the first market where ivory could be procured''. Five days' journey from Koloe lay Axûma, where all the

<sup>67</sup> The two iflands of Sheik Sede and Touhave been joined formerly. Bruce, iii. p. 56. <sup>68</sup> Two hundred fladia. Dahalac itfelf is about thirty miles diflant, but many of the iflands dependent on it are within twenty.

islands dependent on it are within twenty.

\*\*O Dallands, cacording to Brunce, vol. i.
p. 370. is a low flat rocky illand, without war,
the furnished with rathes of extraordinary
magnitude and flurdure, for the preferration
of the rain water, which falls abundandly at
certain featons. These works are now in ruins,
the Brunce inposed them to be the works of
the Prolemics, in the siquent of the Egyptian
to Brunce inposed them to be the works of
the Prolemics, in the siquent of the Egyptian
Beautiful and the significant of the property of the Egyptian
Beautiful and the significant of the property of the Egyptian
Delaquia in the Bay of Zeila, may have been
slifes where the Subbans procured water.

Teffer this to the inquiry of Orientatills.

guided by the two hundred fladia of the Peripiña, and fopported by d'Anville. But Orinëliguidies mountaineur rather than recly. And Cofmas meetines rather than recly. And Cofmas is bigh atthority, he was at Addil himfelf; and the mention of the illands Alaikou in the Periplâs, evidently the dependencies of Dahalae, if not Dahalae titelf, leaves little doubt on the

allotment of Orine. See d'Anville, Geog. Anc. tom. iii. p. 60.

To Bruce met with a Mahomet Adiliai at Mafuah; vol. iii. p. 11. which feems to imoly that the memorial of Addli is not loft.

"In Tigrê, the province of which Sirè is a part, the market is fill on the fame footing. The best slaves, the purest gold, the largest teeth of ivory must all pass through the hands of the governour of this province. Bruce, iii. p. 251.

fer this to the inquiry of Orientalits.

12 The elephant's track was first feen by
In fixing upon Dahalac for Orine, I am Bruce, on the third day, iii. p 71.

ivory was collected which was brought from the other fide of the Nile, through the province called Kuenîon, and thence by Axûma to Adûli. These distances answer exactly to place Koloè on the mountains", which commence at the back of the fands; and eight days' journey to Axûma is a just allowance for about an hundred and twenty miles24, which is its diftance from the fea. The province of Kuenion is manifestly Sirè, which receives its name from the Dog Star, under the influence of which the rains prevail that are to inundate Egypt, and Siris 75 is fynonimous to Kuenîon in the language of the country. Few elephants or rhinocerofes are feen on the coast or in the neighbourhood of Aduli. The mass of them. which fupply the trade are all killed in the interior.

The fovereign of this coaft, from above Berenice 16 down the whole tract of Barbaria, is Zofkales, he is very fuperior to the other princes in the neighbourhood. Civilized in his manners, respectable in his conduct, liberal and honourable in his dealings, and inftructed in the knowledge of the Greek language.

The province affigned to this fovereign corresponds precifely with the territory affigned to the Bahr-nagash, or king of the coast, under-

73 Turanta is the ridge that divides the fea. and Euftathius. fons, on the east rainy from October to April,

to October. Bruce, iii. p. 65.

tius, in Nonnos.

as Dionyfius, or his commentators. Lin 222. negus, for the king of Abyffinia,

76 Having above ventured to fix Berenice . on the west cloudy, rainy, and cold from May at Belled-el-Habesh, the port of Abyssinia; it is some fort of confirmation to find, that 74 Fifteen miles a day is not flow travelling Bererice, is actually included in the govern-in fuch a country as Bruce deferibes. Non-ment of Zolkales, who is, to all appearance, nofus makes it fifteen from Adule. See Pho- the Bahraagash of his age, that is, the king or governour of the coaft, a title ftill preferred

's Kush, Canicula Scir. a dog in the lan- notwithflanding the Turks are matters of the guage of the Trogledytes. Bruce, i. p. 179. ports. See Bruce, patting, Bubr Sen, Na-See Dionyfius Perieg, where it appears that gafa\_king or governour. Whence the vulthis account of the Dog Star is as old, at least, garifm of the negus for governour, the great.

the empire of Abyffinia; and the manners attributed to him are confiftent with that pre-eminence which the Abyffinians in all ages feem to have preferred over the barbarous tribes by which they are furrounded.

How it has happened that a nation neither Nigritian or Ethiopick should be settled in this part of Africa, distinguished from all around them, as much formerly by their manners, as they now are by their religion, is a problem that has divided the opinion of all who have vifited the country.

That they are not of Hebrew origin appears evident, notwithstanding their own pretension and the arguments of Bruce; because, in the first place, the Jews among them continued a distinct tribe; and in the next, their language is written from the left hand to the right ". Paolino, a missionary on the coast of Malabar, afferts, that though the character is different, the principle, genius, and conflitution of their language is Shanskreet78. A question well worthy of examination by those who are qualified to, purfue it. But as far as a private judgment is of weight, I must confess, that. the account of Heródotus has always appeared to me the most rational: that they are a nation of fugitives from Egypt. Strabo, in copying this opinion, has added, that the appellation " they give

<sup>77</sup> See Butler's Horz Biblicg, p. 174.

<sup>7:</sup> A speculation well worthy the investigation of Lt. Wilford, and coinciding with his fystem.

<sup>79</sup> I think I can fix the fite of the Sebritze fo nositively as to identify them with the Abyfinians; the place affigued to them by

Sabai is both by d'Anville and Bruce supposed to be Ras Affab = Cape Affab, in lat. 120 2'. If this he allowed, it accords intimately with Abyffinia: because as Strabo goes inland he

reverts to Meroe, which proves that his detail on the coast, and in the interior, do not quite keep pace together. A line drawn from Affab Strabo is Tenefis, inland from Sabai; and to Meroe would almost touch Axums, and

give themselves is Sebritæ"; a term which fignifies Advenæ", the more remarkable, as Bruce observes, that the original title by which they are diftinguished in their own history and language, is that of Habesh ", or Convenæ. It is impossible to suppose, that the affinity of these two words is accidental.

The flight of these exiles is fixed by Herodotus in the reign of Psammetichus 1, 630 years before Christ, and only 185 years before the date of his own history; he mentions that they went to as great a distance" beyond Meroè", as Meroè is from Elephántine, to the number of two hundred and forty thousand; and that the name by which they were diffinguished as a nation was Asmack 26, or Askham; an appellation which Reisk " and other Orientalists have supposed to allude to Axúm, the Axûma or Axôma first mentioned expressly

cut Abyffinia in the centre. I with a reference to be made to the whole passage in Strabolib. xvi. p. 770, where among much obscurity, much truth may be discovered. And where I should think that Sukho is Suakem, but that Strabo fave it is inland. It is in reality a town on an island in a buy, the approach to which ie by a narrow channel like a river. See de la Rochette's man of the Red Sea. See also the learned Larcher's notes eighty and eighty-three, on this paffage of Herodotuts with his citations from Plutarch de Exilio, p. 601, and from Diodôrus, lib. i. p. 27. A paffage occurs here in Diodôrus, which I ought not to have omitted at the conclusion of the first book, to prove the commerce of the Greeks in the ports of Egypt. Ψαμμάτιχος .... παρίλχετο Φορτία πάσι Tous terripois, making de rois Plante unt Erande.

To He adds, that these Sebritze are under the government of the queen of Meroe, p. 771. which though, perhaps not true, discovers the p. 116.

82 Bruce, vol. i. p. 270.

83 Pfammetichus died in 616. Blair. Herodotus read his history at the Olympick Games, 445, pate Chriflum. I allow to the middle of Pfammetichus's reign.

84 The distance assigned by Heródotus is fifty-two days to Meroc, and fifty-two beyond, which do not correspond, if the termination is at Axúma. See lib. ii. p. 116. But beyond Egypt all must be report. Aristides, Orat. Egyp. contradicts Heródotus as to the diftance, as I learn from Larcher, tom. ii. p. 213. bi Bruce, vol. i. p. 278, quotes Heródotus.

in this paffage, for what he does not fay. 86 It fignifies the left hand. Herod, because they had been guards on the king's left hand, perhaps the left wing of his army. See Diod. \*7 See Wesseling, not. 71. Hered. lib. it.

connexion, or the fimilarity of government. \* Ptolemy has the name of Sibride; perhaps the fame, in the Greek text Sebardee,

in the Periplûs: a supposition which there is very little reason to discredit. In addition to this testimony of Heródotus, we have a variety of evidence from other authors, that Adûli " was built by exiles from Egypt; and if Bruce had not had fuch a predilection for his Shepherds, he must have discovered, that the monuments he found at Axûma himfelf, the obelifk ", the tot, the table of hieroglyphics, and the fphinxes, are perfectly Egyptian, and not paftoral, Troglodytic, Meroite, or Greek.

That the Greeks from Egypt landed at Aduli, and fubdued the country as far as Axûma, or farther, is evident. Ptolemy Philadelphus pushed his discoveries beyond Meroè by land, and by sea, perhaps, as far as Madagascar; and the famous inscription preserved by Cosmas Indicopleustes, is a proof that Euergetes subdued a confiderable part of Abyffinia.

This infcription is reported by Cosmas to have been engraved on a tablet and on a marble chair or throne of the conqueror; and to have been extant in his own age at Adûli, 545 years after the Christian era. It is not without its difficulties; but Cosmas, from internal evidence, was certainly at Adûli 90 himfelf, and acquainted with Abyffinia. Ptolemy appears, by the inscription, to have passed the Tacazzè, which he calls the Nile, and to have penetrated into Gojam,

<sup>13</sup> Pliny, lib. vi. c. 24. Adéliton oppidum Marmore Ad litano. See Differtation, No. ii. Ægyptiorum; hoe fervi a dominis profugi condiderunt.

<sup>\*9</sup> All these are noticed by Bruce, and the form of the obelifk delineated : they are men- of Ceylon has obtained this title for him, But lifks also and pyramids appear in the picture his account of the sea beyond the straits of of Aduli, drawn by Cosmas on the spot, some Bab-el-mandeb may well make us think he Christi 532. See Chishull Antiq. Affaticz, in never passed them.

<sup>2.</sup> Though he is called Indicopleutes, I

can hardly give him credit for having ever failed on the Indian ocean. His description tioned also by Lobo, p. 201. Fr. ed. Obe- he says himself, he had it from Sopater. And

the very province where the fountains of the Nile are found; the Agows are mentioned by name, and other appellations from to imply the kingdoms of Tigre ", Bizamo, and Begemder, the country of Geez, with the mountains Samen and Lamaimon. The fnow mentioned on those tracks is disclaimed by Bruce". But what phenomena were natural to the country in fo distant an age, it is hard to determine. What is added, that Ptolemy Euergetes made roads or opened a communication by land between this country and Egypt, is the most remarkable particular of the whole, because this method of intercourse seems wholly obliterated, as far as may be judged by subsequent writers. And Agatharchides does not appear to be acquainted, either with the expedition of a fovereign of his own country, not fifty years deceased, nor with the country, or its port Adûli 23. His account goes no farther down the coast than Ptolemáis; and even there is not without a mixture of the marvellous.

This, however, is but a negative proof, and not fufficient to invalidate an existing inscription, if Cosmas is worthy of belief: and to his credit be it mentioned, that Bruce " found the name EUE'RGETES, still visible on a stone at Axum, which serves as a footftool to the throne on which the kings of Abyffinia are crowned at this day.

Differtation ii.

<sup>91</sup> Vol. ii. p. 296. Bruce fays, there is no word in the language to express fnow or ice. But Horace fays, Soracte flat nive candida, a circumftance which now never occurs, as I think, Addison fays.

<sup>92</sup> See Appendir, Adulitic marble, No. ii. 23 Bruce writes, " The infeription though

much defaced, may fafely be reftored." HTOAEMAIOT EVERTETOY BASIAEOS. How much more authentic would a fac fimile of the infcription have been, than the refloration? in which, by an error of the author, or the prefs, EVERTETOY, is read for ETEPTETOY, vol. iii. p. 122.

On this evidence there is little reason to doubt the expedition of Ptolemy to this country; and however the port of Addil might be forgotten of abandoned in the time of Agatharchides, it became again conspicuous, as the trade increased in the Red Sea; or at least as it was conducted under the protection of the Roman power in Egypt.

This intercourse will sufficiently account for the character which the Periplûs gives to Zôfkales st, the civilized flate of his manners, and his knowledge of the Greek language. And it is plain that this country was just beginning to be known again, as Pliny mentions Adûli only without any notice of Axûma; and Strabo, who preceded him, makes no mention of either. The manners of these tribes he derives chiefly from Agatharchides, with the addition of fome peculiarities"; but with the commerce of the coast, and the kingdom of Abyffinia, he was unacquainted, though he accompanied Elius Gallus to Syénè: That journey of Gallus was preparatory to the opening of the trade meditated by the Romans, from their first entrance into the country; the author of the Perielûs " writes as if it had been opened previous to his own time, and with every apparent evidence, that he had traded to Adùli himself. The affortment of his cargo is as specific as a modern. invoice.

<sup>94</sup> So and Suah, according to Bruce, are routs, implying the Shepherd tribes on this coaft. Thus Ma-fush is the port of the Shepherds. Could be not have found So in Zölkales the king of the Shepherds?

<sup>96 &#</sup>x27;As yeniners la biene interpretion, p. 771.

<sup>9:</sup> If the Additic infeription is verified, it is the first authentic account of Aby St. in. But the knowledge of it was left, and the Periplias is the first work extant, which expendity notices Addit, Antona, and the commerce of the country.

#### EXPORTS.

Έλέθας. Ivory.

Horns of the Rhinoceros. 'Ρινοκέρως.

#### MPORTS.

Ίμάτια βαρξαρικά άγναφα τὰ έν Cloth with the knap on, of Egyptian manufacture, for the Bar-

'Αιγύπτω γινόμενα 97. barian market.

Robes made up, the manufacture Στολαι 'Αρσινοητικαι.

of Arsinoè or Suez.

Single cloths dyed, in imitation of "Αβολοι νόθοι χρωμάτινοι.

those of a superior quality. Linnen, supposed to be from the

A SHTICK Latin Linteum.

Cloth, striped or fringed. Δικρόσσια.

Aidia Yahn. Glass or Chrystal.

Muchan ". Porcelaine, made up at Diospolis in Egypt, in imitation of Ori-

ental.

97 Bruce has shewn, that Barbarick, Barharine, and Berberin, are names derived from Berber or Barbar, the native name of the coalt of the Trogloditick, Icthyophagi, and Shepherds. It goes down the whole western coast of the Red Sea. The Egyptians hated and feared them. It was, therefore, in Egypt a term both of dread and contumely, in which

fense it passed to the Greeks, and from them to the Romans. 98 Salmafius everywhere reads Molling which he supposes to be Oriental porcelain; if fo, the manufacturers of Diospolis are the Prototype of the European imitators. But

there is much controverly upon this fubicet. what the Morrhina really was.

'Οξέιχαλκες.	White Copper, for ornaments and for coin.
Μελίεφθα χαλκώ.	Brafs, for culinary veffels, for bracelets, and ornaments of the legs, ftill worn in Abyffinia. See Bruce, iii. 54.
Tiengos.	Iron, for fpear heads to hunt the elephants, &c. and for weapons of all forts.
Πελύεια.	Hatchets.
Σκέπαρνα.	Adzes.
Μάχαιραι.	Knives, daggers, or kanjars.
Ποτήρια χαλκά εξογγύλα μεγάλα.	Drinking veffels of brafs, large and round.
Δηνάφιου.	Denarii, specie for the use of strangers, Roman coin. If Greek, it would have been Δομχμαι, drachms.
Οίτος. Λαοδιατνός, εξ Ιταλικός.	Wine, Laodicean, i. e. Syrian, and Italian.
"Ελαιον ε' πολύ.	Oil, but in no great quantity.
	According to the
Χρυσώ ματα.	Gold plate. fashion of the
Χουσώματα. 'Αογυρώματα.	Silver plate. country, and as prefents, or for the use of the king.
	2,0%

### PERIPLUS OF THE ERYTHREAN SEA.

\*ACés au Watch coats, camp cloaks.

TOS.

Kαυτάκαι ἀπλοι. Coverlids, plain.

of no great value.

ου πολλαί. οι πος many.

Σίδηφος Ινδικός. Iron, of Indian temper or manu-

Οθόνιον Ινδικόν το πλατύτερον ή λε- Indian cottons, wide and plain,

γομένη μενακή. perhaps blue Surat cottons, ftill common in Abyffinia. Bruce,

vol. iii. p. 62. Σανμοτογήναι, οτ Σαγματογίναι. Cottons or Mullins, in parcels.

Περιζώματα. Safhes, still an article in great request.

Kauránas. Coverlids.

Moλόγινα. Cotton, of the colour of the mal-

lows flower.

Σινδόνες, ολίγαι. Muslins, in no great quantity.

Αάκκος, χέωμάτινος. Gum lack, but Salmafius thinks it the colour of a cloth or cotton.

Plin. Ex. 816.

These are the principal articles imported from Egypt into Aduli. The voyage may be made any time from January to Septembers,

<sup>9</sup>º The, author expresses himself both in regular wind blows up the gulph from No-Latin terms and Egyptian. From Jamusy to vember to April. Perhaps there are means September; that is, from Tybi to Thoths, of coming down from Berënse'e or Ptolemáis, otherwise one mult have supposed an error; with land hreezes?

but the best feafon is September, and this is confident with the modern account of the winds in this fea.

Oppofite to the Bay of Additi" lie many low and findy iflands called Alalaiou "e", anfwering precifely to the appendages of Dahalae as deferibed by Bruce, and exhibiting, feemingly, the elements of the nuclern name; for Dahal fignifies an ifland, in the language of Gezz. Hither, according to the Periplus, Tortoife-shell was brought by the Icthyophagi; and it is very remarkable that Bruce should observe the beauty of the tortoife-shell here ", to be so exquisite that it is a very profitable article of trade with China and the Indies. Those who know the Roman taste for ornamenting doors, tables, couches, beds, &c. with this shell, will not wonder at its value in the commerce of the ancients.

Below Adúli, about eight hundred stadia, or eighty miles, there is a deep bay with a vast accumulation of sand, in which is found the Opsian stone, that is no where else to be met with. Salmasius has proved that the title of Opsidian or Obsidian given to this sofil from an unknown Obsidius, is an error. He describes it as a dark green which will take a very high polish, and for which reason it is faid to have been selected by Domitian to vaneer a portico at an enormous expence, that it might by reflection shew if any one was approaching behind his back, and preferve him from the attack of an assistance of the selection shew is such a suppression of the selection shew is a suppression of the selection shew if some the attack of an assistance of the selection shew is suppression of the selection shew is suppression.

<sup>99</sup> On the right, according to the text, but to make this true you must suppose the writer but he asks, on low saudy siles hid down he. at Addil, fronting the sea, with his face to tween 13° and 20°, where, on his map, he hardly size east.

<sup>200</sup> Pliny reads Alicen, lib. vi. c. 34.

of any polish", but it is so dark that the green tinge can only be discovered in a particular light.

The bay where it is found is much harder to difcover than the flone itself: "I There is nothing like a bay till we come to Beilul, much too diffant, and there are no data to guide us but the diffance. It is here that the authority of Zoskales seems to terminate; and if Bruce had been able to give us the exact limit between the province of the Bahrnagash and the kingdom of Adel, it is possible that this might have determined the question.

From this bay the coast of the gulph, we are informed, has a more easterly direction to the straits: a circumstance agreeing with the maps of Ptolemy, the report of Agatharchides, and the opinion of the age. This gives the situation of the Bay, both in regard to Addif and the straits.

The ftraits of Bab-el-mandeb, or Mandel, which is interpreted the gate of affliction, are in all refpects worthy of confideration. They, for many ages, formed the barrier unpaffed by Europeans; and from the time this barrier was forced, the knowledge of India and the countries beyond it has been on the increafe to the prefent hour. I fpeak of Europeans, because I am ready to admit an increcourse between the southern coast of Arabia and Malabar, as early as the most speculative antiquary can require. I acknowledge all that can be attributed to the voyages of Solomon's seet, as long as they are confined to the coast of Africa. I accede to the progress of Timosthenes down the same coast, perhaps, as far as Madagascar, notwithstanding the inconsistency of his accounts \*\*\*. And I allow

<sup>100</sup> I have feen this stone both rough and in the Modern Universal History, vol xii, p. 3011 its polished state.

White the ports of Vella and Leila are men"I Hine in ora Æthiopiæ, shuus incognitioned, which, if they that been carried beyond."

tus, quod admiremur cum mercatores ulteriora the firaits, might have been the Sinus Avalites. ferutentur. Plioy, vi. 34. For Beilul, fee

the Phenicians to have penetrated as far as Herodotus shall please to carry them, if he will not conduct them round the Cipe of Good Hope. But whatever discoveries we attribute to the Oriental nazingators, there is no historical evidence remaining, that the Greeks in Egypt prosecuted these discoveries so as to make them the 'bis of' a fettled trade: they contented themselves with fetching the produce of India and Africa from Yemen; if they did passed the straits by accident or design, it was under such an impression of terror, that every thing beyond them was obscured by fable, the sun was a pillar "6", and the sea a curd.

Much that the three first Protenties had attempted, was neglected, or forgotten by their profligate and opprefilive fucceffors; and if the Romans had not taken possession of Egypt, a short fucceffion of weak and ignorant princes might have reduced this commerce again into the fame torpid state, it has experienced under the Mammeluks or the Turks. The dread of venturing on the ocean is expressed by many writers long after the trade to India was established; and Cosmas, in the reign of Justin, speaks of passing the straits as wildly as Pytheas does of the Arctic ocean.

As this species of the marvellous is a constant attendant upon ignorance ", and an indication that the writer describes what he never saw; so is a plain narrative an evidence of truth, and the absence of prodigies one of the strongest proofs that the author really visited the country he describes.

<sup>103</sup> It has been noticed in the first book, differency of Hippalus will be firewn at large how for their knowledge extends in the third book in the third book of Agathershides he fray, the Arabians traded "Agatharchides."

to India, and Indian finite arrived at Arabia, without mention of the Grocks. How the lower than Irdemits Theran with the account Grocks afterwards reached India before the of the fame courte in Agatheratida.

It is from internal evidence of this fort that I conclude the author of the Periplûs to have been himfelf a trader on the coaft of Africa and Malabar. Concerning both he speaks with the temperate language of one who describes objects that are familiar; and the extravagance, such as he has, commences not till he passes Cape Comorin.

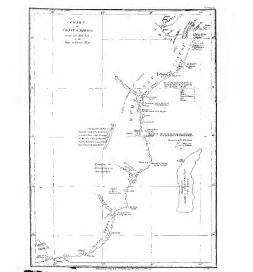
In running down the coast from Adûli to the straits, we have no mention of any place but the bay where the Optian stone is found, upon an extent of near four hundred miles. The author conducts us at 'once to Avalités, which lay immediately beyond the neck of the straits; and from the time we leave Ptolemáis Thêrôn most of the appellations are native, without reference to the reigning family of Egypt, or to the Greek language, "" for their origin.

The reason of this does not appear, as Strabo, Juba, Pliny, and Ptolemy, all place Arsinoè and Berenice Epidires in this tract, with slight traces of other Greek names, as Eumenes and Anti-ochus. If they existed, it is strange that a Greek should have passed them unnoticed, neither does it appear that they are concealed under the native names which Ptolemy reports, in the same manner as our author. "".

<sup>108</sup> Orinè, Daphnon, Apokopi are Greek names, but given from circumitances, and perhaps by the first navigator, as Cook named his new discoveries.

<sup>149</sup> Strabo, p. 771, Ptol p. 112.

<sup>\*\*\*</sup> Δαρη, collum, and so Βαρούκα [27] δαρης, written indeed Δαρη in Ptolemy, and by a strange mistake in Bruce written and interpreted Dire or the Furies from the Latin.



#### DETRE

VI. We are now to pass the celebrated straits of Bab-el-Mandeb, a name which is fometimes thought to be figured in the Mandaeth of Ptolemy. But Mandaeth he ftyles a village, and places it forty minutes north of the straits ". The straits he calls Deire ", or the Neck. The Periplus makes no mention of Deire, but observes that the point of contraction is close to Abalites, or the Abalitick mart; it is from this mart that the coast of Africa, falling down first to the fouth, and curving afterwards towards the east, is styled the Bay of Avalites by Ptolemy, answering to the modern Bay of Zeila; the country from the straits to Cape Gardesan or Aromata is the kingdom of Adel; and in the modern Adel we may perhaps trace a refemblance to the ancient Ahal-ites". However this may be, the Portuguese, upon their first intercourse with Abysfinia. found Adel a powerful kingdom in the hands of a Mahometan race of fovereigns, the determined enemies of the Christian name, and the rayagers of Abyffinia, almost to its destruction. Against these invaders, and against the oppression of Gragni ", the most ferocious and the most successful of all those Mahometan tyrants, it was, that the Abyfinians follicited the affiftance of the Portuguefe, Albuquerque, the brother of the illustrious general of that name;

<sup>1 /</sup> feparate, 10 += 10° 20'. 118 Aren au, Dere 110

<sup>213</sup> It appears that this, at least, is the opinion of Marmol, lib. x, p. 158. Bruce certain that Bruce knew the fite of Adilii. imagines Aduli to beer relation to Adel, and "44 Anno 1564.

Mardail xiper iy is ought to be written if the kingdom of Adel ever extended north of the firaits to Adûli this would be admiffible. In the Periplûs, Adûli is certainly connected, not with Adel, but with Axûma. I am not

was fent to command the troops appointed to this fervice, in which expedition he and most of his followers perished. But the knowledge which the Portuguese obtained by that intercouse, and the wars in which they were engaged, on the coaft of Arabia, with the Turks and Arabs, furnish the principal means that we have for explaining the topography of the country before us"5. The English who still frequent the Red Sea, feldom visit the ports of Adel, as the state of the country presents little temptation to the speculations of commerce. But when the Portuguese first entered these seas, Adel, though a barbarous was still a powerful government", gold dust, ivory, myrrh, and Abyffinian flaves" formed the ftaple of its native commerce, the spices and muslins of India were still found in its ports, and notwithstanding the depredations of a savage war, caravans" were protected, which arrived regularly from Abyffinia, and the interior of Africa more to the fouthward. These circumstances will contribute more to illustrate the narrative of the Periplûs than any particulars which can be collected from ancient authors; the Portuguese found the country and the commerce in the same state as the Greeks described it fisteen hundred years before, Arabs

Di Barros. Di Barros's account we have in Ramufio, thefe with Oforius and Faria are the authorities referred to.

<sup>116</sup> In the voyage of the two Arabs, published by Renaudot, the trade of Zeyla is noticed, in leopard's skins, amber, tortoise thell.

Abyffinian flaves are in high estimation Purchas, vol. i. p. 754. in Turky, Arabia, and India; they are docile,

<sup>145</sup> Marmol in this part of his work copies tractable, intelligent, and endued with talents and conrage which always elevate them to favour, and often to command. When commodore Robinson surveyed the coast of Brodia in 1772, an Abyffinian was mafter of Scindi. How different is this fingular race from the Caffres on the coast in their neighbourhood!

<sup>118</sup> See Corfali in Ramufio, vol. i. p. 187.

mixed with the natives, the same productions and commodities. the same intercourse with Hadramaut and the coast of Malahar. This state of things ceased, in some degree, with the arrival of the Europeans in India. But as long as the Indian trade was carried on by the Red Sea, the kingdom of Adel must have partaken in it. and its commerce would be fimilar to the Mofyllitick commerce of the ancients. This trade was fingular; for, as far as can be collected from the authorities which remain, it appears, that in the age of Agatharchides, the Greeks of Egypt went no farther than Sabêa or Yemen, to fetch the commodities of India; that they afterwards paffed the straits, and found a better market in the port of Mosvllon ", one of the harbours of Adel; that in a later period they advanced as far as Hadramaut, on the fouthern coaft of Arabia; and that all these efforts were made for obtaining the productions of India, till at last they reached that country themselves, first by adhering to the coast, and finally by striking across the ocean in confequence of the discovery of the monfoon by Hippalus.

The coaft of Adel, ftyled Barbaria in the Periplüs, commences at the ftraits and terminates at Arômata; in which there can be little doubt, that the author is more accurate than Ptolemy, who extends the name of Barbaria down the coaft of Ajan, the Azánia of the Perriplüs. Barbaria is much more properly extended to the north than the fouth; for the Troglodytes on the weftern coaft of the Red Sea are the original Barbars or Berberines, as Bruce has admirably proved, the perpetual enemies of Egypt, whence their name became a term of odium and diffinction, and in this fenfe paffed both to

<sup>110</sup> Hence many Indian commodities were 120 See Herodotus, lib. 11. c. 158. All-called Mofyllitick in the market of Alexadria, cinanous, foices, multins, &c.

the Greeks and Romans, as an appellation adopted for every thing that was foreign, or contrary and offenfive to their own fystem of life and manners.

The coast of Barbaria is estimated at four thousand stadia. In the Periphis, and is in reality four hundred and fifty geographical miles, without taking its finuctions into the account. The straits at Bab-el-Mandeb are contracted to three and twenty miles, a space divided into two channels by the intervention of Perim and other idles, both of which were navigated by the ancients, according to their course down the opposite sides of the Red Sca; from the straits, the channel opens in an easterly direction to Cana or Cape Fartaque on the Arabian side, and to Arômata or Gardefau on the coast of Africa. These two promountories form the proper entrance to the straits from the Indian Ocean, and are about two hundred and fifty geographical miles aduider. The latitude "of Fartaque. is 15° 45° of", and that of Gardefau 12° o' o''.

The African fide of this channel, which we are now to follow, contains, according to the Periplûs, four principal marts or anchorages, called by the general name of Ta-pera ""; and the fame number occur in the accounts of the Portuguele, but all attempts to make them correspond are in vain. D'Anville has placed them

<sup>223</sup> Certainly more are intended by the Periphlis but not specified Four thousand stadia are four hundred Roman miles.
224 This is laid down from one of the latest

charts, by Lawrie and Whittle', but in these latitudes, and the space between Fartaque and Gardesan, the charts differ greatly.

121 Whether we are to read To area, or

Taraça, is very justly doubted by the commen-

tators. I incline firongly to the former. The marts beyond the firaits, in contradifination to those within; properly we wigar, or wigar. And

those within; properly vie wigos, or wigos. And this terms fully confirmed by the Periplia lifelf, p. 8. where the MS has wierges and winges, which Hudson yery properly writes at wigos, or vie wigos, because joined with rustrue and vie durid.

according to the measures of the Periplus. My own with was to have reconciled Mofyllon with the modern Zeyla; first, upoa account of a refemblance in the found of the names; and secondly, because Zeyla is the principal mart of the moderns, as Mofyllon "was of the ancients. But this endeavour is favoured neither by the measures or the circumflances described. The leading facts upon which the following arrangement is founded, will be stated in their proper place; they amount, at best, only to conjecture; but this is of less importance, as they terminate in certainty at Arômata, with such striking peculiarities as can be derived only from one who had actually visited the coast himself.

# ABALITES, AUALEITES, pronounced AVALITES, whether written with the B or the U.

VII. The first of these marts is Abalites, a road, but not a port or harbour; the goods are conveyed to and from the ships in boats or rafts. This place, according to the Periplûs, is close to the Straits of Bab-cl-Mandeb, but Ptolemy has fixed it at the distance of fifty or fixty miles, and makes it give name to the whole Bay of Zeyla, which is styled the Bay of Mosyllon by Pliny. There is a Ras Bel. 5 in the charts which is not more than ten geographical miles from the straits; but whether the resemblance of the names marks any relation, is justly to be doubted.

<sup>\*\*\*</sup> Marmol speaks of many ancient buildinge at Zeyla, but ancient may refer to Arabinas for a much later date than the eage of the Peris-

of a much later date than the age of the Periphis, lib. 10. p. 155, et feq. French ed.

125 Strabo notices the transferring the 156.

cargoes at the fraits from flips to boats. May

#### The imports of this place are:

Flint glafs of various forts. Υαλή λιθία σύμμικτος.

Διοσπολιτική διεΦαξ. Unripe grapes from Diofpolis, or,

perhaps, vinegar. See Hefych. Stuckius fuppofes it may be any unripe fruit; and Ramufio fuppofes it to be a species of stone.

Ίμάτια βαρθαρικὰ σύμμικτα γε-Cloths for the Barbarine coaft, of vvauuéva. various forts, with the knap on.

Σίτος. Corn.

Oivoc. Wine. Κασσίτερος ολίγος 127. Tin in fmall quantity.

The exports are conveyed by the natives in small craft to Kelis [Okélis,] and Moofa, on the coaft of Arabia, confifting of 'Αρώματα. Gums, odoriferous gums.

'Ελέφας ολίγος. Ivory in fmall quantity.

Χελώνη. Tortoife-shell. Σμύρνα έλαχίς η διαφέρυσα δὲ τῆς Myrrh in very fmall quantity but

άλλης. of the finest fort.

coast of Africa. May we not justly suppose, from regions equally distant, without any that the Africans knew as little of Britain as knowledge of the medium? before any knowledge. the Britons of Africa? Yet here we fee the ledge existed? medium through which the commodity was

The tin of Britain we thus find on the conveyed. How many commodities paffed

Particular attention is due to this laft article, because the myrrh of Arabia is celebrated by every poet and historian, while Bruce says, it is not properly a native of that country, nor does it come to perfection there. Its origin, he affirms, is from Azam in Africa. The Periplus is perfectly in harmony with this affertion. It mentions the myrth of this coad as the finest of its kind; it specifies the means of conveying it to Yemen or Sabéa; there the first Greek navigators found it, and through their means it found its way into Europe, under the name of Sabéan.

One other remark of the Periplüs, that the natives of Avalités are uncivilized, and under little reftraint, is worth noticing, because it is in correspondence with all the modern accounts we have, which describe the natives as treacherous beyond measure, a quality, perhaps, not mitigated by the introduction of Arabs among them, or the religion of Mahomet, but aggravated by instruction, and pointed by superstition.

We have now four thouland fladia to dispose of, eight hundred to Malao, and a thousand, or two days fail each, are allotted to Mundus, to Mofyllon, and Nilo-Ptolemeon. In the distribution of these d'Anville has acted wisely in confidering the distances only; and though I differ from him in the following arrangement, upon the strength of one particular, which is the mention of directing the course east from Mundus, it is not without disfidence in my own assumption.

# MALAÔ.

VIII. EIGHT hundred stadia, or eighty miles to Malao, is more than fufficient to carry the polition of this place to Zeyla; but the description given can hardly be consistent with the situation of that town in a bay; the anchorage "as is marked as a road upon an open shore, with some protection from a promontory on the east. A protection on the east is more applicable to a coast that lies east and west, but an open road is hardly consistent with a bay " like that of Zevla; and the fecurity of the following anchorage feems to claim that privilege for Mundus. The natives of Malaô are described of a more peaceable disposition than their neighbours, and the imports are fuch as have been already specified, with the addition of

XITHURG.

Jackets.

Σάγοι "Αρσινοητικοί γεγναμμένοι κ BeGauueron

Cloaks or blanketing, manufactured at Arfinoe or Suez, with the knap on and dyed.

ΜελίεΦθα δλίγα.

Brafs or copper prepared to imitate gold.

Σίδηρος.

Belleforeft.

Iron.

Δηνάριον ε πολύ χρυσεν κ αργυρεν.

Specie, gold, and filver, but in no great quantity.

198 "Opus; irricalos, an open road. Stuckius

129 The whole curvature of the S. W. angle mentions Mergeo as its representative, from is called the bay of Zeyla, but Zeyla itself lies in an inner bay or harhour.

### The exports are

Σμύρνα.

Myrrh.

Αίζωνος δ περαπικός 12 δλέγος.

Frankincense, thus, or olibanum of Adel.

Καστία σκληροτέρα.

Cinnamon, caffia lignea.

Δέακα, Κιττά, Δάκας,

Cinnamon of inferior forts.

Κάγκαμος.

The gum cancamus.

Maxer.

Tila, fefamum, carried to Arabia. but fee Plin, xii, 8. who calls it an aromatick from India, the bark red, the root large. The bark used in dysenteries.

Σώματα σπανίας.

Slaves, a few.

We have in this lift the first mention of kassia, casia, or cinnamon. It is all of the inferior fort, fuch as the coast of Africa always has produced, and produces fill; of little value in any market, where it comes in competition with the cinnamon of Ceylon, but grateful to the natives, readily purchased by those who cannot obtain the Oriental, and still saleable for the purposes of adulteration. How old this traffick was is not easy to be determined, but if the ships from Egypt did not pass the straits when Agatharchides wrote, they certainly reached this coast in the time of Artemidorus, as we

<sup>130 ·</sup> Hagazand; must be interpreted according modity was known at Alexandria; and then to its reference; if it applies to the port itself A. 2010; & meanure, will be the frankingense which it is to be rendered foreign, not native. But it comes from the ports beyond the firaits, the may be a mercantile term, by which the com- wigar. See Perip. p. S.

learn from Strabo, who mentions the baftard cinnamon, perhaps the fame as the cafia lignea, or hard cinnamon; he adds also, that the cargoes were transferred from the ships to boats at the straits, a proof that this commerce was in its infancy, lib. xvi. p. 768. 774. Slaves are noticed here as an article of commerce, a circumstance common to both the coasts of Africa in all ages; in the present instance it requires no great stretch of imagination to suppose that the ancient traffick of Adel was parallel to the modern, and that the flaves procured here would confift of both Cafrés and Abyffinians; according as the course of war or the plunder of individuals supplied the market, both for home confumption and exportation.

## MOUNDUS 151, pronounced MOONDUS.

IX. The next anchorage we are directed to, is Mundus, at the distance of two days fail, or a thousand stadia: D'Anville fixes it at Barbora; in which he is justified by the measures. If I neglect the measures, it is with regret, but there are circumstances mentioned, which induce me to fix Mundus at Zeyla, or at an island previous, called Londi, by de la Rochette, and Delaqua by the Portuguese, for Malaô and Mundus, in Ptolemy 132, differ not in longitude; and his Mofyllon is a promontory which may be Barbora, but fuits

237. Eurosen a Mileson. The true found is Ceylon were possibly so named by the Arabians Moondas, and whether the author means to ... who traded to both, it is natural to look to give the native found, both in this Moon- the Arabick for its meaning. See Peripl. p. 6. dus and in Palefimoondus, (Ceylon,) or whether it is a corruption of the text, may be long. 78°. lat. 6° 30'. Miss luxboos on &, doubted. But the ufage is uniform, and Mundu, a mart, long. 78°. lat. 7°. However therefore feems to be delign rather than accideat. Moondus has a more Oriental form relation has a confiderable degree of weight. than Mundus; and as both this place and .

132 Makey iprogeo, on Fy. Maleos, a mart,

neither of the other two. Another confideration is, that the Periplus, though it does not actually affert that the direction of the course to the east commences at Mundus, yet mentions it here for the first time: this is true, if Mundus be fixed at Zeyla, and this circumstance is the particular inducement for preferring it. The fafety of the anchorage here at an island, or under the protection of an island, is marked with precision; and if there be an island at Zeyla, the whole evidence is consistent. Bruce "In mentions the isle of Zeyla; but I have found no other authority; and if he is mistaken, Mundus must be carried back to Delaqua. But upon the authorities alleged, Malaô may be well fixed at Delaqua, and Mundus at Zeyla.

The native traders, at this port, are deferibed as an uncivilized tribe", and the imports and exports fimilar to those of the preceding ports, with the addition of mokroton, a fragrant" gum, the more peculiar commodity of the place.

MOSULLON, written MOSSYLON by Pliny, MOSYLON by Ptolemy.

X. Ar the diffance of two or three days' fail, or from an hundred to an hundred and fifty miles, we are conducted to Mofyllon, the grand mart of the ancients on this coaft, the place which gave name to their trade and to the whole bay, in preference to Abalites, in the effimation of Pliny. The diffance from Zeyla to Barbora is flated at eighty miles by Oforius 185, a circumflance not unfavourable to the two

<sup>133</sup> Vol. ii. p. 142.

<sup>134</sup> Extraorious, duriores.

<sup>135</sup> Soulana, incenfe.

p. 156, makes it only eighteen leagues.

days' fail of the Periplûs, which, in ordinary computation, are equal to an hundred miles, and which will bear contraction or extension according to the currents or the winds.

The character of Mofyllon " is omitted in the Periplûs, but in Ptolemy it is twice " fpecified as a promontory, and by his latitude it is carried up a whole degree more to the north than Mundus. This projection is doubtless too extensive, but the feature is true, and fuits no other point on the whole coast but Barbora, for Barbora 199 is a town upon an island 140 close to the shore, adjoining to a narrow cape of confiderable extent, which is open, low, and fandy. Its want of height prevents it from affording protection against the N. E. monfoon, and this may be the reafon why the Periplûs ealls it a bad road. D'Anville has carried Mofyllon another flep towards the east, to a river where he finds the name of Soci ", and which he fupposes related to Mosvllon; but the Periplus requires more rivers than we can discover at present, and this stream may well be preserved for Nilo-Ptolemeon, an appellation in which undoubtedly a river is implied.

But there is a still greater probability implied in the very name of Barbora, which is written Borbora, Barbara, and Berbera by

Atlantick Ocean commence at Mofyllon; by which we are to understand that he considered the whole ocean which furrounded Africa as commencing at Mofyllon and terminating at Mount Atlas. See Pliny, lib. vi. c. 29. Stuckins in loco. See alfo Gronovlas's man for

<sup>138</sup> Móruhos árpos na) tjurópose, é, i. c. 8°. p. 112.

Misoura di dale re opinippes AKPON. p. 113.

<sup>137</sup> It is remarkable that Juba makes the Universal History mentions a river at Barbow called Howacha, vol. xii, p. 307. which Ludolfus fays is the river of the capital Aucugarecee. Marmol supposes Barbora to be Mofyllon, vol. iii. p. 156.

<sup>240</sup> This island is called Londi in some charts; de la Rochette applies Londi to what others flyle Delaqua. See Univ. Hift. vol. xii. D. 307.

<sup>141</sup> The Universal History mentions Salim, 429 Corfali in Ramusio, vol. i. p. 187. The and supposes it to be Mosyllon.

the moderns, retaining still the title of Barbaria, attributed to this coast by the ancients; and as d'Anville has observed, that the name of the province became applied to the capital in many European cities '42, fo have we in this part of the east, the town of Arabia Felix, fo named from the province, and the same place afterwards called Aden from the country Adanè. It is probable, therefore, that Barbaria became applicable to Barbara, the principal mart on the coaft; and if this be admitted, it gives great weight to the fuppolition that Barbora and Mofyllon are the fame. The Mofyllitick coast and Barbarick coast were fynonymous.

The imports at Mofyllon are the fame as have been already fpecified, with others peculiar to the place.

Σκέυη άργυρα.

Silver plate, or plated. Iron, but in less quantity,

Σίδηρα ελάσσε.

A. Aire

Flint glass.

### Exports.

Κασσίας χρήμα 143 πλειςου ο και Cinnamon, of an inferior quality, μειζόνων πλόιων χρήζει τὸ έμπόрису.

and in great quantities; for which reason, vessels of a larger fort are wanted at this mart.

141 Some MSS, and the edit. Bafil. read cheaper fort. See Perip. p. 28. Obiin gubant, avue, which, according to Salmafius, is right. ordinary cottons. But the immediate addition See Plin. Exer. p. 542. He refers it to of and matter main xentu, implies quantity,

<sup>461</sup> As Paris, Berry, Vannes, Triers, &c. &c. derstand it as common, ordinary, of an inferior or volction, as fignifying a great quantity, I un- and requires groun, rather than given

· secristratz

124

Evodes. Fragrant gums.

'Aρώματα. Gums or drugs.

Χελωνάρια όλίγα. Tortoife-shell, of small fize, and in

PERIPLUS OF THE ERYTHREAN SEA.

no great quantity.

Mongo Ton ก็รารอง ระ Munditing. Incense, in less quantities or in-

ferior to that of Mundus.

Λίζανος ο περατικός \*\*\*. Frankincense of the coast of Adel.

'Ελέφας. Ινοιγ.

Σμύονα σπανίως. Myrrh, in fmall quantities.

The Mofyllitick trade of the ancients has been noticed already; and the cinnamon mentioned in this catalogue is a fufficient proof of Arabian merchants conducting the commerce of the place. An inferior fort of cinnamon indeed is a native production "", but the Mofyllitick species is enumerated by Dioscorides as one of prime quality, and consequently not native but Oriental. The immense wealth of the Sabéans, as described by Agatharchides, proves that in his age the monopoly between India and Europe was wholly in their hands; but the other tribes of Arabia traded to India also; and the Greeks of Egypt by degrees found the way to Adea and Hadramant in Arabia, and to Mofyllon on the coast of Africa. Here they found rivals to the Sabéan market, and supplied themselves at a cheaper rate.

<sup>144</sup> Imported either from the opposite coast of Arabia, which did always and fill does produce this article, or from India, the incense of which, Niebuhr says, is better and purer than the Arabian; but it rather refers to τὰ πιρά.

<sup>&</sup>lt;sup>145</sup> A specimen of African cinnamon I have seen in the curious and scientifick collection of Dr. Burgels; it is small, hard, and ligneous, with little fragrance.

After another course of two days, or an hundred miles, we are conducted to Nilo-Ptolemėon. It is the last distance specified, and may be terminated either at the Soel of d'Anville, or at Metè, where there is also a river: the former is preferable, because the Periplis makes mention of two rivers at least between Nilo-Ptolemèon and Aromata; and if we assume Soel for Nilo-Ptolemèon, we can find two other rivers, one at Metè, and another near Mount. Elephant, which is the Elephant River of the Periplüs, and the Rio de Santa Pedra of the Portuguese. Strabo mentions the name of Nile on this part of the coast.

#### NILO-PTOLEMAION.

XI. At Nilo-Ptolemeon we exhauft three thousand eight hundred out of the four thousand stadia allotted by the Periplus to the range of marts, which are called by the common name of Te-para \*\*\*; and, speaking in a round number, it may be presumed the author effimates his four thousand as terminating at this place: this gives a measure of four hundred Roman miles, where the real distance is about four hundred and fifty; a correspondence certainly sufficient where there is no better estimate of measurement than a ship's course; and, sensible as I am that the particulars of d'Anville are better adapted to the distances at the commencement, the conclusion of the course and the position of Mosyllon are more consistent in the arrangement I have adopted. It is, however, at best but hypothetical, and submitted to the future determination of those who may obtain a more perfect knowledge of the coast.

ie Táraga fie forfan dicta quia fe mutuô feems, as already noticed, τὰ πέραν. See Periptangunt et confequentur, Stuckius. But it p. 8. and Stuckius Com. p. 29.

But we are now arrived at a point in which there will be nothing equivocal. The promontory of Arômata, with its two inferior capes. Elephant and Tabai, will be described with a precision in perfect correspondence with modern observation; and the circumfrances are fo peculiar, that they befpeak the testimony of one who delineated them on the fpot.

Marts, TAPATEGE, DAPHNON MIKROS, ELEPHAS, Prom-Rivers, ELEPHAS, DAPHNONA MEGAS, or AKANNAI,

XII. The places which occur are Tapatege "4", the leffer Daphnon 148, and Cape Elephant: the rivers are the Elephant, and the greater Daphnôn, called Acannai. Neither place or distance are affigned to any of these names, but we may well allot the rivers Daphnôn and Elephant to the fynonymous town and cape; and these may be represented by the modern Metè and Santa Pedra, The river at Metè is described by the Portuguese as dry at certain feafons. When they landed here under Soarez '49 in great diffress,

runs thus: " Sailing along the coast two days " from Molyllon, you meet with Nilo-Ptole-" maion, Tapatégé, the leffer Daphnôn, and " Cape Elephant . . . . . then towards the " fouth well, (h; Alea, ) the country has (two) or rivers, one called the Elephant River, and se the other the greater Daphnon or Akan. " nai ..... after this the coall inclining " to the fouth, [ lis vis Noror #2s, ] fucceeds the " mart of Aromata, and its promontory, " which is the termination of the Barbarick " coaft, and a projection more eafterly than " Apokopa."

The text is fo very corrupt in this part of the work, and the points of the compais fo discardant, that, after seeing Mr. Gosselin's

147 The literal translation of this passage work, I endeavoured to reconcile them by following his fyftem, and carrying Cape Ardmata, which I have fixed at Gardefan, to Daffni: but though this does relieve in fome degree the expressions Est Alfa and North, still the two promontories of Gardefan and Daffai are fo firongly marked by Arômata and Tabai. that I returned to my own arrangement. Tabai is characterifed as a promontory at the head of a Cherlonefe, and that is fuch evidence as hardly to leave a doubt upon the queftion.

148 Diofcorides Daphnitis eft Caffire fpecies, fic appellatur a Daphnunte magno vel parvo ubi olim forfan provenit. Stuckius, not. p. 24fed potins a Lauretis, p. 25.

14 Marmol, lib. x. p. 200.

they found the place deferted and no water in the river; but a woman whom they feized directed them to open pits in the channel; and by following her advice, their wants were relieved. Commodore Beaulieu ", who anchored a few leagues north of Gardefan, received fimilar infructions from the natives with the fame fuccess. These circumfances are mentioned to identify the exiltence of rivers on this coast; and I think I can discover in the map, framed by Sanfon for the French edition of Marmol, that the 'learned geographer paid attention to these rivers of the Periplüs.

Cape Elephant is formed by a mountain confipieuous in the Portuguese charts, under the name of Mount Felix or Felles, from the native term, Jibbel-Feet ", literally Mount Elephant. The cape is formed by the land jutting up to the north from the direction of the coast, which is nearly east and west; and from its northermost point the land falls off again south east " to Cape Gardesan, the Atômata of the ancients.

But if we have the authority of the Portuguese for a river at Metè, we learn from an English navigator the same circumstance at Jibbel-Feel. Capt. Saris "3, in 1611, stood into a bay or harbour here, which he represents as having a safe entrance for three ships

<sup>\*\*\*</sup> An intelligent Frach Commander, in 1619, whose voyage is published by Melchizedec Therenot, and inferred in Harris. The pits Beaulier opened were on the store.

ייי Jibbel-Feel, Arabick, from the Heb.

Bruce is angry at the missoner of Felix. Perhaps other names in the Periplus would admit of translation, if we knew the language to refer to.

<sup>252</sup> Es; vie Néror Perip. not correct; because, according to the author's own system, Arômata is the easternmost point of Africa.

<sup>153</sup> Savis calls the place Felule, from the Portuguefe Feliu, but as he describes it between Gardafui and Demety, [ Metè, ]

there can be no miffake. Purchas' 8th voyage of the East India Company, vol. ii. p. 340.

a-breaft, and that both wood and water were in plenty; he adds alfo, that feveral forts of gums, very fract in barning, were ftill purchafed by the Indian thips from Cambay, who touched here for that purpose in their passage to Mocha.

The whole detail of this coast, from the straits of Bab-el-Mandeb to Cape Gardefan, is principally derived from the Portuguefe, who rayaged it under the command of Soarez, in the years 1516 and 1517. Corfali, whose account is preserved in Ramusio, served in the expedition. Soarez " had been fent against the Turkish force collected in Arabia, a fervice which he conducted with great ignorance and ill fuccefs. The diffrefs of his fleet he endcavoured to relieve by plundering the coast of Adel; Zeyla, Barbora, and Metè were deferted on his approach, where little was obtained. Zeyla is described as a place well built and flourishing; but of Adel. the capital, little is to be found. That the power of the kingdom was not injured by these ravages appears from the success of its arms against Abyssinia between this time and the year 1564, which extended almost to a conquest, with encreasing hatred against every thing that bore the Christian name. Little is known of this country fince the decline of the Portuguese, but that the government is Mahometan, and the governed are removed but a few degrees from the Cafres of the coast below.

At the marts which succeed Nilo-Ptolemeon in the Periplûs, no articles of commerce are specified, except frankincense, in great quantity and of the best quality, at Acannai. This is styled Peratick 125, or foreign. But it cannot be admitted in that sense as

<sup>\*54</sup> This expedition is found in Oforius, di 155 O THOUSENESS. Batros, Faria, and Bruce.

the commodity itself, for it is noticed expressly as a native "10 produce of the place. Still it will lead us to folve a difficulty already noticed in regard to these ports of Barbaria, called Ta-pera, which, by a flight correction '57 of the text, will fignify the ports beyond the .! The articles obtained here would naturally be fivled ftraits. Peratick, from (Pera) beyond, and would be known by this title in the invoices, and the market of Alexandria, in contradiftinction to those obtained in Sabêa, Hadramaut, or India. The author is writing to Alexandrians, and is confequently specifying the precise ports where those commodities were obtained, which they knew by the name of Peratick.

This is not the only difficulty in this part of the work before us: the quarters of the heaven are dubioufly described; the sentences are ill connected or imperfect. There is at least one interpolation 's, or a corruption equivalent; and it is not known that any manuscript is in existence, which might lead to a correction of the

146 'Azaras le n mooyren's Albane, è meatrels whire and diagon; TINETAL, " where more " especially the Peratick frankincense in " greatest quantity, and of the best quality, is " produced." All the testimonies of the ancients unite in supposing Thus or Frankincenfe to be the peculiar native produce of that it is not a native, and that the best is not produced in Arabia, but procured from Add and India. But in Arabia the ancients first met with it, both produced there and imported. How correspondent is the evidence of Bruce and Niebuhr to that of our Alexandrian merchant !

157 Ta wien, the ports beyond the firaits. 1532. See Perip. p. 8. osween.

158 Kal dasurigen Biédas, [dre Oreins le Néver τροχωρά ] The five concluding words are a manifest interpolation, because we are not yet arrived at Arômata, and Opône is fubfequent, From Arômata to Opône the tendency of the coast is fouth west; and from Opone it continues the same : but from Elephas the coast Saben. But Bruce and Niebuhr both agree, lies fouth eaft to Arômata; and Elephas is not connected with Opone at all. Stucking and Hudfon both complain of the corrupt flate of the text. And Sigifmundus Gelenius, who published the first edition at the prefe of Frobenius, Befil, 1532, in his Prefatory Epittle, takes no notice whence he had the manufcript. See edit. Froben, Bafil, text. Under these circumstances, indulgence is due to the attempts which have been made to preserve, in any degree, the connection and consistency of the narrative.

We now arrive at Cape Arômata or Gardefan, a place of importance in every refpect; for it is the extreme point caft of the continent of Africa; it forms the fouthern point of entrance upon the approach to the Red Sea; and it is the boundary of the monfoon from caufes that are almost peculiar. Its latitude is fixed

6° o' o" N. by Ptolemy "...
12° o' o" - Beaulieu.
11° 30' o" - D'Anville.
12° 30' o" - Bruce.

12° o' o" in Lacam's chart, and the general one by Lawrie and Whittle.

Beaulieu, who anchored within four leagues of Gardefan, describes it as a very high bluff point, and as perpendicular as if it were scarped. The current comes round it out of the gulph with such violence that it is not to be stemmed without a brisk wind, and during the south west monstoon, the moment you are past the cape to the north; there is a stark calm with insufferable heat.

This current, we may conclude, is not constant, and probably depends upon the direction of the winds; for Faria mentions a ship that was separated on the coast and carried to Zeyla by the current.

this coaft, which was visited every year by of Ptolemy should be so very erroncous on merchants he must have seen at Alexandria.

And Purchale ", from Fernandes, afforts, that the current fets into the gulph during the increase of the moon, and out of it upon the wane. The current below Gardefan is noticed by the Periplûs as fetting to the fouth, and is there, perhaps, equally fubject to the change of the monifoon.

There is great diverfity in writing the name of this promontory, and of its two fubordinate capes. Bruce is very urgent in directing us to write it Gardefan, and not Gardefui "", as it appears upon many of the charts; Gar-defan, he fays, fignifies the firatist" of Burial, and we have had Metè or Death before, names which imply the fufferings or terrors of the navigators. The Greeks, if their appellations may be admitted as a proof, were either better omened or lefs alarmed.

### T A B A I.

XIII. At Arômata the Periplûs marks in the most pointed manner, that the coast salls in to the south; and in another place specifies its foutherly or south westerly direction to the limits of ancient discovery. But before it touches upon this, another cape is marked, called Tabai, which answers to the d'Orsui of the Portuguese, about seventy-sive geographical miles south of Gardesan. And thus is Arômata, with its two inferior capes, defined as precisely by the Periplus as Gardesan could be by the best geographers of the moderns.

<sup>&</sup>lt;sup>860</sup> Fária, vol. i. p. 158. Purchafe, vol. i. p. 751. <sup>251</sup> Vol. i. p. 443.

An error, perhaps, for cape, ibid.

<sup>169</sup> Harris, in Beaulieu's Voyage, calls it Orpin. Ecsulieu lay near two months to the fouthward of Orpin or Tabai. Harris, i, p. 726. Orpin approaches to OpOne.

The author expressly mentions also that Arômata is farther cash than Apókopa, and actually the most eastern point of the continent : the anchorage, he adds, is totally exposed, and in some seasons very dangerous, because it is open to the north. The certain prognostick of an alteration in the weather is when the fea changes colour and rifes turbid from the bottom. Upon the fight of this, the veffels which are at anchor here weigh instantly, and fly to Tabai for shelter. This remark is the more valuable, as the author himself mentions it rather as the effect of an accidental change of the wind than of the monfoon. But as we have observed before, that in the fouth west monsoon. Beaulieu found a dead calm to the north of Gardefan; from the same cause, in the season of north east monsoon the calm will be on the fouth of Arômata and Tabai, or d'Orfui 164,

With this delineation before us of the most prominent feature on the coaft, whatever failure may be discovered in fixing the stations from the straits to the cape, it can by no means discredit the originality of the work. Distance of time, the changes of nower, or commerce, may have defaced the particular features we have described, but the general appearance of truth and fidelity is indisputable. If any accident should lead an English navigator again

and Gardeful are relative appellations, for this I suspect, and think it possible that the relation may be discoverable in the Arabick : the same relation holds good in another form of orthography, which is Afun and Gardefun. Could I afcertain which was right, I should as readily conjecture that Opône [or Ophone] was Afun, as that Tabai was Daffui. but I confign this to future inquiry upon But there is no end of conjecture, without a

<sup>264</sup> Orfui is written d'Orfui, Arfur, d'Arfur, and Carfor, possibly for Cape Arfor; but the true orthography feems that of Bertholet, who writes d'Affui; or, perhaps, as Reffende does, Daffui , apparently the fame word as Tabai, if we confider that the Greek pronunciation of Tabai is Tavai, and that Tavai. Davai, and Davui, naturally approach Daffni: the fpot; and future inquiry may likewife knowledge of the language. determine whether the two capes Daffui

to this barbarous and neglected coath \*\*\*, it is very possible that the descriptions of places, brief as they are, may be recognized by a judicious observer, and the ancient narrative be established on modern investigation.

The articles of commerce obtained at Arômata we may collect from its title; for Arômata, (although Salmafius informs us it is the name for drugs in general,) in this journal, at leaft, fignifies gums, fpices, odours, and fragrant productions of every kind. The veffels which traded here we may fuppofe anchored to the north or fouth of the cape according to the feafon, and must have received or delivered their cargoes in boats and rafts, as has been noticed at previous anchorages. The change of the monfoon must likewife have been watched, as it is noticed in the Periplûs; no particulars-of import or export are however mentioned here; but at Tabai or d'Orfui, it is faid, that they brought the fame articles of commerce as to the coaft above, and received the following commodities in exchange, which were native:

Κασσία	Cinnamon.
Tigeig.	Cinnamon of a fmaller fort.
'Ασύφη.	Cinnamon, ordinary.
Açwµa.	Fragrant gums; but as inferted here,

In the ficet feat to cruize at the mouth of the Red Sea, in 1798 and 1799, when the French in Egypt were suspected of an intention to escape to India, some intelligent English officer may have made observations

which would contribute more to folve the difficulties of this navigation than any which can be collected from the documents which have been published. Μάγλα, Μοτὰ. Cinnamon of inferior quality.

Λίθανος. Frankinconfe.

At Arômata terminates the modern kingdom of Adel, and the Barbaria of the Peripliks; and here the coaft of Ajau or Azania commences; in which our author is more correct than Prolemy, who extends the limits of Barbaria farther to the fouth. Azan "" or Ajam fignifies water, according to Bruce; and in this feníc is applied to the weftern coaft of the Red Sea, in oppolition to the Arabian fide where water is not to be had. If Ajan has any reference to this, it feems very ill applied to the coaft before us; for between Arômata and Apókopa is a most defolate fhore, where hardly the name of a habitable place occurs in the modern charts, and where the Periplis, from Opônê, is a total blank. At Apókopa, the Cape Baxos for Shoal Cape, of the Portuguefe, commences the coaft of Zanguebar, fo called from the island of that name, the trace of which is preferved in the Zengifa of Ptolemy.

The following table is now fubmitted to the reader, with a just confidence in its general correspondence, but not without requesting a candid allowance for possible error in some few particulars:

A kingdom called Adea is placed here firs; but the natives, he fays, are called Haby the maps; but the authors of the Univerful diens, i. e. Ajans, whence the corruption into History densy its exilience, and fo does Lucal. Adeans and Adea.

# Coast of Azania from Cape, Arômata to Rhapta [and Prassum.]

[N. B. D before the name of a place marks D'Anville. \* Points supposed to be ascertained. ? Doubtful.]

Peripl		Prolemy.	Lat.	North.	Modern Names an	d Latitude	
Allewed 900	I. Arómata - II. Tabai 167 -	Arómata - Panopros Vicus	6° 0	່ວ້	D. * Gardefan D. * d'Orfui	11° 45′ 10° 10′	o".
	II. I abat	Panon 308	,	, ,	Daffui.	10" 30'	٥
	III. Opone Four hundred stadia from Tabai round the Cherlo-	Opônè -	4° 45	0'	D. C. Delgado ? Bandel Caus Bay of Galee	9° 45	0"
400	nese, hence the coast tends fill more to the fouth, the current also sets to the fouth.						
	IV.  V. Apókopa the lefs	Zengifa 169 Phalangis Mons. 17 Apókopa	3, 30	0 0	Related to Zenzib Morro Cahir ? Zorzella?	ar? . 3º o'	o"
3000	VI. Apóliopa the greater Six days' fail, a river no- ticed, but none occurs in	Noti Cornu 172 Southern Horn or Cape.	29 12	0"	D. S C. Daxas Shoal Cape.	. 4° 35′	0"
	the maps. ) VII. Little coaft	Little coaft -	ı° o	0"	(		
3000	III. Great coaft - Six days' fail.	Great coast 175	2° 30	0",	D. * Magadasho	2º 0'	o" N.

167 Between Arômata and Tahni it is called the Ray of Bellia or Beyla.

461 It has been fegerhelt en om tilst Pausge se night fallere in Name splassen, bet here i soch jiden ersjelken ve gallen er men inguitiet. I laver fapptelel, som ne istene groosel, blie Chall Park bligger Plante, og det bligger blie state groosel, blie Chall Park bligger Plante, og det bligger Chan and Steger! A name, portupe, joven from the rude spins name of the safers. It is remarkable that the Proplick flowed meants mean of gjerstele. Namesledger of the Puijola, flowed medic of the Charles of the Stephen Kanasselenge of the Puijola, flowed medic the Campanisme, the Stephen in the Stephen of the Stephen of the Stephen of the theory first mark the very flow. Migret. It objects on still allere the stephen of the 169 Ptolemy's Azzala commences at Zengifa. See lib. i. c. 17. Zengifa and Phalangia have both the fame latitude, and may be districted with Morro Cobbs, if that has there points. The term Zengifa is satisfied, as related to the court of the Zinguis or Cultrey, for carly as Proteoms.

To Phylingis is deferred as a ferked mountain with three heads. Find likely c. 17. This gives it a character which will enable any fature navigator to fix it for a certainty.

the it is remarkable that Pt Semy, Eb. i. c. 17, where he demils this could, makes no mention of [8698 10155] the Southern Horn.

TP Two degrees thirty founds is certainly an error, as the account is carried to the fouls.

Stadia of the Periplûs. Arrian.	Ptolemy. Lat. North.	Modern Names and Latitudes.
Allowed 7300		
IX.	Effina 177 - 0° 0′ 0″ Under the line.	Brava? - 1° 0′ 0″ N.
500 X. Serápion, one day's fail	Serapion - 3° o' o" S. l   To Nikè - 4° 45 o" S.   Niki.	at.
XII. Several rivers and roads 3500 each a day's fail, in all feven, ending at the		Coast of Zanzibar and Melinds.
XIII. Pyralsan islands and }		Mombaça? - 3° 50′ 0″ 8.
XIV. Eitenediom - Menou- 2000 thefias, two courses of twenty-four hours each 174		Penha? D.4° 45′ 0′ 8.′ Zanzibar? D.6° 35′ 0″ 8. * Monfia D.7° 32′ 0″ 8.
1000 XV. Rhapta, two day's fail	Rhapton River 7° o' o"S. Rhapton metro- polis of Bar-	Pate Sio Am D. 10 50' o"S. Melinda of
14,800 stadia = 1480 miles, divided by	baria 7° o' o"S.	Marmol and 2° 35′ o"S.
75, the number of Roman miles in a degree, give 19 degrees, 55 miles. The real distance from Gardesan to Quiloa is somewhat more than		Quiloz and Cape 8° 30' o"S. Delgado, lat. 10° Vostius and
20 degrees.	Menouthias 12° 30′ 0″ S. Prafum 178 15° 30′ 0″ S. Head of the 12° 0′ 0″ S.	the author. Madagafcar? Mofambique? 15° 0′ 0″S.

77) There is an Afun which Stuckius from Belleforeft fuppofes to be Effinis, but it is folly one more correspond by writing Afun for Lordon States and States and

174 Νοχθημέρου ..... ΤΕ Θευοίλω τΕ ΝΥΧΘΗΜΕΡΟΥ φορίο πλέο χιλίαν οποτεθημένα cation. Ptol. lib. i. c. g.

Makes describe calles. Ptol. lib. i. c. 9. 175 Prafum, from Prafus, green. Marcian. Herse, apud Hodfon, p. 12.

N. B. At page 126, note 147, the change of Arbmata, inspated to Mr. Coffelia, is not founded, and I take this opportunity of recalling the imputation, as the correlation was too late for the prefs.

### Observations on the foregoing Table.

Is it were at any time allowable to build on the measures of an ancient journal, it might be prefumed that the prefent inflance affords grounds for it, juftifiable in an uncommon degree. The latitude of Gardefan, according to d'Anville, is "\* 11" 45' o" N. and that of Quiloa 8" 30' o' 8. " making 20" 15', where the Periplüs gives 19" 45', an approximation never to be expected in cflimates of this fort, and liable to supplication merely on account of its correspondence. But let it not be imagined that Quiloa or Cape Delgado are affumed for Rhaptum from the diffances of the journal, because, if they cannot be supported by circumflances, they may justly be abandoned.

▶ Whatever may be the corruption of the text in Eitenediommenouthefias", all the commentators, with common fenfe in their favour, are agreed, that the latter part of this ftrange plurifyllable points out the ifland Menûthias; and the fuffrages greatly prevail in favour of making this ifland the Zanguebar of the moderns. Now there are three iflands almost in a line, Pemba, Zanguebar, and Monfia, placed between latitude 5° 30° 0″ and 9° 0° 0″. All thefe islands lie (as the author afferts of his Menûthias,) about three hundred fladia or thirty miles from the coaft, and there is no other island in the whole range from Gardefan to Quiloa, which answers to this description, but these three. One of them, therefore, doubtles is Menûthias; and as Zanguebar is the centre, the most conspicu

<sup>\*75 120 0&#</sup>x27; 0" alii. 177 100 0' 0" alii. 178 See infra and Appendix No. iii.

ous, and the one which gave name to the coast in all ages ", it is with great inflice that we should give this the preference. Two additional circumftances confirm this; the Pyraláan iflands are two thousand fladia previous, and Rhaptum one thousand fladia subfequent. Neither of these distances are inconsistent ", if we assume Mombaca for the Pyraláan isles, Zanguebar for Menûthias, and Ouiloa for Rhaptum; and that we may affign the Pyraláan illands infly to Mombaca there is great reason to believe; because they are evidently close to the continent, and not at thirty miles distance. like the other three; and because notice is taken of a new cut or canal, which intimates the continent in its vicinity, and cannot apply to an ifland which lies in the open fea. Add to this, that Mombaca is on an island in a bay, separated by a very narrow channel from the main, and we have then a circumstance parallel "" to the new canal of the journal, a work which might as well have been executed for protection or convenience by the Arabs who

the name. Zingi, or the coast of Zingi, is found in all the Oriental writers, and Zinzibar in Marco Polo. Zinguis are blacks or Cafres. according to the Universal History, vol. xii. and Zangue-bar the Cafre coaft.

180 They would fuit better with Monfia than Zanguebar; but the reason for preferring the latter is stated here, and will be considered more at large prefently. N. B. Duarte de Lemos, in 1510, landed at Zanguebar and drove the natives to the mountains; a proof that sit is not a low island as Menûthias is deferibed by the Periplûs. Faria, i. p. 158.

181 Caffanéda fpeaks of Mombaça as an illand hard by the firm land, p. 22. Oforius fave, it is on a high rock with the fca almost

170 Prolemy's Zengifa is the first instance of furrounding it, vol. i. p. 60. May not along have been done away by a cut of this fort-Faria calls it an ifland made by a river which falls into the fea by two months, vol. i. p. 41. See the ifland delineated in a Portuguese map-Melchiz. Thevenot, vol. i. part 2. It is joined to the continent at low-water by a causey. Marmol, lib. x. p. 150. Fr. Ed. and the Universal History writes, " The city was once " a peninfula, but bath fince been made an " iffand by cutting a canal through the " ifthmus." Vol. xii. p. 341. This circumflance might with equal propriety, and on equal grounds, have taken place in the age of the Periplus, for the fecurity of the ancient Arabian fettlers as of the modern.

fettled there in those early ages, as by those whom the Portuguese found there, three centuries ago "".

It now remains to be observed, that the preceding table manifestly proves the correspondence between Ptolemy and the Periplus. The names of the places differ little, and both accounts terminate at Rhapta: for the Prafum of Ptolemy is not ranged under his detail. of this coast, but is introduced in another chapter incidentally. bounding over feven 183 degrees at one step, without the intervention of a fingle circumstance or place. This Prasum he has by his own confession fixed from conjecture only "4; and this, with his Menûthias, clearly diffinct from the Menûthias of the Periplûs, will be confidered in its proper place. I must now add, for the credit of the Periplûs, that it carries that appearance of confiftency with it, which would naturally attend it, if composed by a voyager from his journal, while the catalogue of Ptolemy is by no means in harmony with his commentary 185.

#### AZANIA, Coaft of AJAR.

The Periplûs is entitled to no fmall fhare of praife for the accuracy with which it defines the limits of the territories on the coaft from the ftraits of Bab-el-Mandeb to Rhapta; and this is the more remarkable as the demarkation of Ptolemy is not confiftent with the natural

<sup>182</sup> Mombaça was taken by Almeyda. 185 Rhpaton Prom. 8º 20' 12", Prafum,

<sup>25</sup>º 30' 0".

See lib. i. c. o.

e. 17. where Opônè is fix days' fail from Panopros or Panon, while the latitude differs but fifteen minutes, at p. 112, Marcian, his copyift,

was fo fenfible of this, that he has not ven-255 Compare lib, iv. p. 112. c. 7. with lib. i. tured to give the stadia on this coast. See infra.

divisions of the country. The Avalitick gulph terminating at Mount Elephant, he ftyles the coast of the Troglodytes, but the Periplûs restrains this appellation to the country that forms the margin of the Red Sea, and terminates at the ftraits; and from the ftraits to Cape Gardefan, the author calls it Barbaria 186, corresponding naturally with the limits of the modern Adel. At Gardefan, the kingdom of Aden "7" commences, the coast of which is styled Ajan, in perfect harmony with the Azánia af the Periplûs. But Ptolemy, who commences his Barbaria at Mount Elephant, carries the fame appellation down to Rhapta, which he calls the metropolis, and confequently removes the commencement of Azánia beyond the boundary which is in reality its termination. The Periplûs, it is true, extends this title beyond the limits of the modern Ajan; for the coast of Zanguebar commences with Cape Baxos, or at farthest with Melinda, while the Periplûs carries on Azánia several degrees farther to Rhapta; by which it appears that the author was not informed of any change in the name to the utmost extent of his knowledge.

There are, however, divisions of the coast and boundaries fixed. which appear correspondent to those which the Portuguese found upon their arrival. These are preserved in a manuscript map of Bertholet's ", inferted in Reffende, and strongly confirm the opinion that the author of the Periplûs describes rather what he saw himself than what he collected from others

<sup>166</sup> Barbaria is the constant term of Al- the Universal History. Edriffi, and the Oriental writers. Barbara

ance the Mofyllon of the ancients.

<sup>117</sup> An imaginary kingdom, according to Indianorum imperium faciebat.

<sup>136</sup> Bertholet dates one of these maps (for is fill a town on this coaft, and to all appear- there are feveral by him) 1635, and writes, Petrus Bertholet primum Cofmographicum

The first division of Bertholet comprehends the **tack** from the bay succeeding Cape d'Assui to Cape Baxos, answering nearly to the Opônè and Apókopa of the Periplús.

Cape de Gardafui - Gardefan - Arômata Eneeada de Belha - Beyla bay. Cape d'Affui - Arfur, Carfur Tabai.

Odelerto:
Chishie MS. Enganos de Surdos.
Deferto Cast.

Odelerto:
Cast.

Enganos de Surdos.
Cunhal.
Deleti
Coat.

Os Bodios.
Punta dos Baxos - Shoal Cape - Apókopa. Noti Cornu.

The fecond division takes the general name of Magadoxo from the principal town, and answers to the Little and Great Coast of the Periplûs.

Magadoxo
Mariqua
Brava

Os Balaros
- S Little Coaft.

J Little Coaft.

Great Coaft.

Brava

Effina of Ptolemy.

Rivers

Pattè

The third distinon is by iflands and rivers all the way, corremonding exactly with the number of feven rivers, as flated by the Periplus.

```
Boubo Rio 1
                               Coaft of Zanguebar ? Serapion?
                                                    S Nicon ?
           Jugo, Rio 2.
                                   and Melinda
           Cama.
           Tumao, Ilha.
           Sangara, Ilha.
           Tema, Ilha.
           Guafta.
Iflandsand
           Mane, Rio 2.
           Ouiami, Rio 4.
            Punta da Bagona, Rio
            Empaça.
            Pattè. Rio 6.
           Mandaro, Rio 7.
           Lamo.
           Jaque,
```

Zanguebar is a native appellation given to the coast from the island of the same name. It is noticed as early as the two Arabian voyagers and Marco Polo 109. M. Polo calls the coast the isle of Zamzibar, and gives it a circumference of two thousand miles, evidently applying it

<sup>189</sup> It is fruitlefs to allot Serapion or Nicon to any particular name; but the correspondence of feven rivers in the ancient and modern account is highly remarkable.

<sup>190</sup> The doubts which were entertained conorganing the authenticity of the voyage of thefe

Arabians, published by Renandot, have been fully cleared up. The original has been found in the Royal library at Paris, the existence of which had been confidently denied by Martin Folkes, and other very learned men.

to the then undiscovered country of Lower Africa. In the two Arabians and other Oriental writers we read the fame name given to this tract, with the title of Zingis or Zingues applied generally to all the inhabitants of the eaftern coast of Africa.

The first trace of this word is found in the Zengisa of Ptolemy ", which he places at Mount Phalangis on the coast of Ajan, answering, as far as I can discover, to the Morro Cobir of the Portuguese. It is possible that the commencement of Zanguebar and of the Zingis was placed here by the natives in that early age, or that the influence of the title extended fo far. Of this, indeed, there are no traces in the Periplus. I suspect Menuthesias, the term used in that work, to be equivalent in its application to the extension of the modern title of Zanguebar, from the island to the coast.

### OPÔNÈ.

XIV. AFTER these general illustrations we are now to proceed to the particular places on the coast; and the first of these is Opônè. which is honoured with the title of a mart '92 both in Ptolemy and the Periplûs. The distance assigned from Tabai of four hundred stadia, or forty miles, makes it correspond sufficiently with Ban-del-Caus, which is a bay, or, as its name implies, a port '97. Opin is a

192 Europe, in contradifinction to Oppos,

<sup>191</sup> Zengi (with the g hard) is the Perfian Paris. Herbelot. term for Caffrees, and the diffinction between them and Hhabaffi, Abyfinians. India but our are fometimes junters. Literata, Valentin, p. 385. Kiaferah, Cofari, Caffres, are in most Oriental writers Novairi an Arab, in the Royal Library at and Bertholet,

<sup>192</sup> Bandel is a corruption of the Perfin Bender, or Bunder. A very undefined term diftinguished in the same manner, and con- for a port, harbour, road, or landing place. fidered as Zinguis, opposed to Abysinians and The bay, or rather the falling in of the land Arabs. There is a hiftory of the Zingi by fouth of Daffui, is called Galee in Reffende

name which occurs in the map of Sanfon, inferted in Marinol; but whether there be any modern authority for it may be doubted, for Sanfon was not unacquainted with the Periplüs, and he may have affigned a place accordingly for the Opônê of the journal. The mention of a current fetting round Tabai, or Cape d'Orfui, down this coaft, is in all probability confiftent with the experience of voyagers in that age; but whether this current is conflant or changes with the monfoon, must be determined by those who visit this coaft in different feasons of the year. Stuckius observes that, according to Belleforest, Opônê is Carfur, of which he ingenuously confesses his ignorance; but Carfur is only one of the corruptions for Cape d'Orfui, which is written Arfur, Arfar, and Arfui. And as that cape is evidently Tabai, there can be little doubt in fixing upon the next port, Caus. for the true position of Opônê.

The imports here are the fame as those specified at the anchorages preceding.

# The Exports are,

Kaσσία.

'Aρωμα.

Fragrant gums, native.

Meraè.

Δελικώ, ιρώσσουα μὲ ἰς

'Ανγωπτο προχωρὲ μάλλου.

Slaves of a fuperior fort, and principally for the Egyptian market.

Χελλου πλείς η μὲ ἀκορομτίρω

τὸς ἄλλης.

Tottoifethell in great abundance and of a fuperior quality.

The feafon for failing from Egypt to all these ports beyond the firaits \*\*, is in Epiphi, or July, and there are many articles of commerce regularly \*\* imported here from the marts of Aríakè [Malabar \*\*,] and Barygáza [Cambay, or Guzerat]; fuch as,

Σιτος, Corn.

"Ορυζα. Rice.

Barugov '97. Butter, ghee.

Έλαιον Σησάμινον. Oil of Sefamum.

\*Οθόν ου ήτε μεναχή κ', ή σαγματο- Cottons, coarse and fine.

2829.

Περιζώματα. Safhes.

Μέλι τὸ καλάμινον τὸ λεγόμενου Honey from the cane called fugar. σάκχαρι

Many veffels are employed in this commerce expressly for the importation of these articles, and others which have a farther defination, dispose of part of their cargoes on this coast, and take in such commodities as they find here in return.

This passage I have rendered literally, as containing one of the most peculiar circumstances in the ancient commerce of this coast.

<sup>191</sup> Τὰ ατίραυ. See Periplûs, pp. 5. 8. an article of trade from all the wedlern coard. Τάκταρα, compane. 195 Σαιάκη, ufually, cuftomarily. Pering, and the coal of Africa. In India it

<sup>496</sup> Malabar is properly the coaft lower down towards Cape Comorin; but the whole wellern coaft takes this name generally. Aritake is confined to the part between Guzerat and Bombay.

<sup>197</sup> Ghee or butter in a half liquid flate is the butter of the Indians.

an arrice to the Mekran, to the Gulph of Perfix, and the coaft of Africa. In India it forms a part of every facrifice, and almost of every meal; it is in as much request as of among the Greeks. Some traveller has remarked that the tafte for greafe is universal, from the whale bulbber of the Greenlanders to

Tr

It manifestly alludes to an intercourse, totally distinct from the navigation of the Egyptian Greeks, carried on by the native merchants of Guzerat and Malabar, with the inhabitants of the coast of Africa, whom we shall presently find to be Arabs; it speaks of this intercourse as established "", and that scemingly previous to the appearance of the Greeks in the country; and when it is immediately fubjoined, that there is no potentate who has an extenfive influence, but that cach mart has its own peculiar fovereign ", it presents a picture both of the trade and country identically the fame as the Portuguese found them after an interval of fifteen centuries.

I cannot contemplate this portrait without indulging my imagination, in supposing that the East India trade existed in this form, as long before the interference of the Greeks, as it continued after the destruction of the Roman power in Egypt; and that the nature of the monfoons was perfectly known to the inhabitants of the two opposite coasts, as many centuries before it was discovered for the Greeks by Hippalus; as it continued afterwards till the arrival of Gama at Melinda.

### APOKOPA the Lefs, APOKOPA the Greater.

XV. FROM Opônè the Periplûs conducts us along the coast of Azánia, tending still more to the fouth west, to Apókopa the Less and the Greater. The diffance is fixed by a course of fix days,

<sup>199</sup> Tugaway Mass. Al Edriff mentions the language from that of Arabia, and unknown the Periplus that they were. to the Arabs of his age, p. 24. The fact

ought to be firch, if thefe tribes had been upon the coaft for fix or feven hundred years' Arabs on this coult as speaking a different before he wrote, as it evidently appears from

equal, by estimation, to three thousand stadia, or three hundred miles, without any notice of an anchorage or a mart; without mention of any article of commerce as delivered or received; even in this a resemblance is preserved with the modern appearance of the coast, for our maps are as barren as the journal, and it is probable that the want of water on the shore, mentioned by Beaulieu and other voyagers, has condemned this tract to sterility and desolation in all ages.

Polemy mentions Zengifa next to Opône, and places it in the fame latitude with a Mount Phalangis, to which he affigns a three forked head. This character is indelible; and the observation of any voyager who may vifit this coast will correct my error, if I am mistaken in allotting Zengifa to Bandel d'Agoa, and Phalangis to Morro Cobir. I find no other mountain on the coast of Ajan; and the correspondence of Apókopa the Less with the Apókopa of Prolemy, as well as Apókopa the Greater, with his Southern Horn, gives such an appearance of consistency to both authors, that it consistency me in the arrangement I assume.

Answering to Apókopa the Less we find a Zorzella in the maps, though we have nothing either in our ancient or modern accounts to determine the relation; but the Southern Horn is manifelly a cape: it is noticed as fuch by Ptolemy; and the obscurity or corruption of the Periplus, which intimates an inclination to the fouth west \*\*o at Apókopa, (however dubiously applied to the cape or river.) fill proves a connexion between this place and the Southern Horn. Both also commence the following step with the Great and Little

<sup>200</sup> Stuckius, p. 30. expresses the same Λίος in the Periplus points out the Νότω κίςκες opinion, and concludes that the mention of of Ptolemy.

Coast; and consequently, as far as we have proceeded, both are confiftent with our modern accounts and with each other.

In fixing this Southern Horn at Cape Baxas, or the Shoal Cape of the Portuguefe, I am not only directed by d'Anville 101, but confirmed by the detail of the coaft. And that the Periplûs means Apókopa for a promontory is clear from a previous passage, where, when it is flated that Cape Arômata is the most castern point of all Africa, it is peculiarly marked as more to the east than Apókopa; a certain proof that Apókopa itself is also a promontory; and if so, there is nothing within diffance north or fouth, which can answer to it, but the Southern Horn of Ptolemy, and the Cape Baxas of the moderns. The mention of a river 202 here by the author is the only circumstance for which we find no equivalent in the modern accounts.

It is worthy of remark, that the termination of ancient knowledge on the western coast of Africa was a horn as well as on the eastern; the western horn "is a limit to the voyage of Hanno, and the geography of P. Mela, as this Southern Horn formed the boundary of the eastern coast in the age of Strabo 104. But discovery had

fome fort with those of the Periplus, whichprove, that if in the time of Agarharchides the veffels from Egypt went only to Ptolemáis and This is formetimes also called the Thêrôn, they passed the straits in the time of Artemidorus.

> \*Axxx 714 Nilos, another Nile = Nilo Ptolemeon. Daphnus Daphpons. Libanotrophus prom. = Akannai?

<sup>201</sup> Geog. Anc. vol. iii. p. 62;

<sup>202</sup> The passage itself is apparently incorrect to a degree.

Southern Horn, but by Mela, Hefperi Cornu. 204 Τελευτακον διερωτήμου της παραλία; σαύσης τὸ · Nóra Kiess. Strab. lib. xvi. p. 774. "The " Southern Horn is the last promontory on this " coast." But it is not quite certain that the Southern Horn of Strabo is the fame as Ptole- The mention of feveral rivers also with Mount, my's, as he mentions it in one place as next but one to Mount Elephant, and in that case it would be Aromata; he has the names of feveral places from Artemidorus, correspondent in

Arômatôphori = Elephant, &c. &c .- proves the existence of a trade here and a knowledge of the coaft, but it is not diffinct.

advanced to Rhapta before the writing of the Periplûs, and to Prasum in the time of Ptolemy. By comparing this progress of knowledge, it seems as well ascertained that the author of the Periplûs is prior to Ptolemy, as that he is posterior to Strabo.

AITIAAOE MIKPOE, AITIAAOE METAE, the LITTLE COAST, the GREAT COAST.

XVI. WE come now to the two last divisions of this navigation. The first distinguished by a course of fix days, and the latter by one of Six days are attributed to a tract called the Little Coast and the Great, on which not a name occurs, neither is there an anchorage noticed, or the least trace of commerce to be found. We are not without means, however, to arrange these courses, as during the last division of seven days a river is specified at each anchorage, and we can discover precisely the part of the coast where these streams begin to make their appearance. The intermediate fpace, therefore, between Cape Baxas and this point must be attributed to the Little and the Great Coast ; and the termination of it may be fixed at the modern Brava, which corresponds fufficiently with the Effina of Ptolemy. Effina he places under the line, and Brava is only one degree to the north of it; and though little is to be built upon his latitudes, it is remarkable, that his error is greatest at the commencement of the coaft, and diminishes in its progress to the fouth. At Gardefan it is near fix degrees, at Cape Baxas it is little more than two, and at Brava it may, by proportion, be reduced to one.

But there is another method of reducing our conjectures to certainty; which is, by taking a proportion of fix to feven; in which eafe, if we fix the termination of the fix days fall at Brava, the conclusion of the remaining feven coincides precifely with Mombaça, the correspondence of which will be established by a variety of deductions, fo as hardly to leave a doubt upon the arrangement.

Within the space which is allotted to this Little and Great Coast. amounting nearly to five degrees of latitude, we find only one place noticed on our modern charts, which is Magadasho 105. I dare not fay that this has any relation to the Megas 200 of the Greeks, but I recommend it to the enquiries of the Orientalists; for Ma and Maha fignify great in the Shanikreet and Malay, and in this fense most probably enter into the composition of Madagascar in the neighourbood. Of Magadasho and farther mention will be made hereafter; but except in the existence of this place, our modern charts are as barren as the Periplûs; even in the absence of information there is a refemblance and correspondence; and as the following division is characterized by feven rivers, which are actually found upon the coast at present, there cannot be an error of any great consequence in affuming Effina for Brava 105, and terminating the Great Coaft of the Periplûs at the same place.

## SERAPIÓN, NIKÓN, the SEVEN ANCHORAGES at SEVEN RIVERS.

XVII. THE division we are now to enter upon requires more confideration, as we are approaching to the limits of the journal;

205 This name is written Macdoscho and where Ariston built a temple to Neptune, as Mocadellou by the Arabick authors, Maga- the boundary of his discovery, when he was fent down this coast by Ptolemy, but I find no authority for this affertion. According to Diodorus, (vol. i. p. 209. ed. Wel.) Arifton

does not frem to have gone beyond the Bay of Zeyla or Gardefan, and even that is conjecture. If he had reached Effina, Strabo would have proceeded as far, but he stops at the Southern Horn. See lib. xvi. p. 574-

doxo and Mogadoxo in the charts. 206 'Asymble METAY. I do not suppose that the Greeks translated, but that they caught at a refemblance of found; but it is very possible

that Magadasho is of a much later date. 207 The river at Magadasho is styled Nil-de-Mocadesson by the Arabs. Lobo. Second Differtation, ed. Le Grande.

<sup>248</sup> Stuckius mentions Effins as the place Salmas, Plin. ex. p. 1183. Stuckius, p. 30.

and more especially as I am obliged to diffent from d'Anville, which I always do with diffidence, and which I never do without compulsion, or from the imperious necessity of the circumstances described. These feven rivers, or even a greater number, cannot be a fiction. They may be feen in Bertholet 209, in d'Anville's own map, and every good map of the coast; and they are the more remarkable, because from Cape Gardefan to Brava; a space of more than seven hundred and fixty miles, water is found at only three places 200, as far as I can . discover. Among the number of these streams must be comprehended the mouths of the Quilimance, or Grand River of d'Anville; it falls into the fea not far from Melinda by three mouths, or perhaps more, and in the islands formed by the division of the stream, or in their neighbourhood, we find Pate, Sio, Ampaça, and Lamo, obscure places, where there was some trade when the Portuguese first discovered this coast ". Here d'Anville places the the Rhapta of Ptolemy and the Periplûs, neglecting altogether the Pyraláan islands and the Menûthias of his author "", and not observing that Rhapta must be two days' fail to the fouth of the latter. My own defire is, to affume these spots surrounded by the divided fireams of the river for the Pyralaan islands and to make up the

<sup>\*\*9</sup> See fleet 26. MS. of Refined, Brit. Midi. It is not pretended that the feven anchorages can be diffitibated to the feven rivers, but there are feven rivers or probably more, and the general picture of the track is all that is contended for as true.

<sup>310</sup> At Bandel d'Agoa, north of Cape Baxas, at Dours an obscure stream where we find Bandel veijo, and at Magadasho.

ars Geog. Ancienue, vol. iii. p. 64.

<sup>22.1</sup> I fometimes think that d'Anville în this has followed Marmol, who places Rhapta at a river near Melinda, that is, the Obii or Quilimance, lib. x. p. 146, &c. and p. 208.

<sup>&</sup>lt;sup>213</sup> I am enabled, from Reflendè's MS. to give fome particulars of thefe islands, which have efcaped the refearch of the authors of the M. Universal History. Lamo, Asapaça, Patè, and Cio, lie at the different issues of the Obii or Oullisance's in latitude 2° 1° 0°. The govern-

the number of the feven rivers with those separate streams which occur previously on the coast. The great river which forms these islands is called the Obii "4 by the Portuguese: they failed up it for several days, and defcribe it as a magnificent ftream: it possibly derives its origin from the fouth of the Abyssinian mountains, as the Nile slows from the northern fide, and perhaps gives rife to a geographical fable of Ptolemy and the early writers, who derive the fource of the Nile from a lake in the latitude of fixteen degrees fouth "".

The two first anchorages of the seven are called Scrapion at and Nicôn "7, both in Ptolemy and the Periplus; and it does not appear clearly from the text of the latter, whether they are to be reckoned inclusive or exclusive. I have taken them separate in the preceding table of the coast; but if they are to be included in the number, two days' fail, or an hundred miles, must be deducted

ment of all was in the hands of the Mohameat Patè. Vafco de Gama first made the coast of Africa at Pate on his return from India. thousand Moors as foldiers. Cio had fix hundred, and was a piratical flate. Ampaca had fifteen hundred, was tributary to the Porturnefe, and much attached to the nation. These were divided by different branches of the river, but Lamo was more folendid than the others, had a king of its own, and fifteen hundred Moorish troops. It was tributary to Portugal, but no Portuguese resided in the city. The trade of all thefe places confifted in dates, Indian corn, and provisions,

214 See Marmol, lib. x. p. 208, and p. 144. Barbofa, &c.

215 Ptolemy in 12º 30'0", or 13° 0'0".

and Whatever doubt may arife about Nicon, dans, but there was a Portuguele cuftom house from the fluctuation of orthography, there can be no hefitation in allowing that Serapion must be the name of an Egyptian, or an Egyptian Ships were not fuffered to touch here, unless Greek. Voyagers of this fort frequently gave the monfoon prevented them from getting to their names to ports first visited by them, or Mombaça. The government maintained three | had this henour conferred upon them by others; thus we have, in Strabo, the alters or ports of Pitholaus, Lichas, Pythaugelus, Leon, and Charimotrus, on the coast between Mount Elephant and the Southern Horn. Strabo, lib. xvi. p. 769. et feq. from Artemidorus. Cicero mentions a Serapión as a geographer who contradicted Eratofihenes. May he not have been a navigator on this coast? or might not a place have been fo named in honour of him by a navigator? See Epift. ad Atticum, lib. ii. ep. 6.

237 Ptolemy writes Niki and To Nike: it is only a variation of orthography.

from the total, a difference far more excusable in an ancient journal than a modern one.

These names, evidently derived from the Greeks, afford no means of finding an equivalent for either, but in regard to the seven rivers and anchorages, our evidence is complete; this intimation the reader is requested to accept for the present, till we can present him with particulars from the discovery of the moderns. The general character of the coast is clearly marked by the actual existence of the rivers, and the termination of the seven courses at the Pyraláan islands, points to Mombaça almost to a certainty.

#### MOMBACA.

XVIII. The preference due to Mombaça is founded upon a variety of combinations. It has been noticed already, that by the two divisions of this tract from Apókopa [Cape Baxas] to the Pyralian, islands, the proportion of fix days fail to feven would direct us to Mombaça, and it must be observed now, that two hundred miles fouthward would carry us to one of the three Zanguebar islands, and another hundred miles added to this would conduct us to the neighbourhood of Quiloa; these are the distances of the Periplis to Rhapta, and at Quiloa or Cape Delgado must be fixed the limit of discovery in the age of the author. In treating of this limit, Quiloa will be generally assumed as more conspicuous, as it is a place of importance, and as it is the feat of an Arab government, certainly more ancient than the Periplis itself.

Let us now confider the peculiar characteristicks attributed by our author to Rhapta. The place, he says, has obtained this name

among the navigators who were Greeks, from the word herra. which fignifies to few, and was applied to this place because they found here veffels not built like their own, but finall, and raifed from a bottom of a fingle piece with planks which where fewed together" [with the fibres of the cocoa,] and had their bottoms paid with fome of the odoriferous refins of the country. Is it not one of the most extraordinary facts in the history of navigation, that this peculiarity should be one of the first objects which attracted the admiration of . the Portuguese upon their reaching the same coast, at the distance of almost fifteen centuries? They faw them first at Mosambique, where they were called Almeidas, but the principal notice of them in most of their writers is generally stated at Quiloa, the very spot which we have supposed to receive its name from vessels of the same construction.

### RHAPTA.

XIX. "THE inhabitants here are men of the tallest stature and " the greatest bulk", and the port is subject to the sovereign of " Maphartis ", which is in Yemen, lying between Moosa and the " ftraits:

<sup>\*19</sup> Προυργμένου έπατῶν πλοιαιρίων.

<sup>319</sup> A circumftance noticed also by Capt. Beaulien near Cape Gardefan, 220 Niperas di durde eard es dicasos derino

ύποκίστοσου τη βασιλεία το, πρώτοι γεομένοι Αρα-Sine; & Madageiras Tuguror.

What is meant by THE TIPITEE yesquire Agr. Cizi, I dare not pronounce. Dodwell fupdividing provinces according to their proximity

or date of conquest, as Arabin prims, Arabia fecunds: and he observes justly, that this style belongs to a later age than what I affuine, i. e. the reign of Claudius. - To this I answer, that the Romans never had any province at all in this part of Arshia. They ravaged the couft it is true, as they razed Aden, and they collected a tribute as early as the reign of Claupoles it to relate to the Roman custom of dies, as appears by the account of Placamus's freedman, and fo did the Portuguese upon

" firatis "; befides this power of the king, the merchants of Moofa "likewife exadt either a tribute", or demand cuftom; for they "have many fhips themfelves employed in the trade, on board of "which they have Arabian commanders and factors", employing "fuch only as have experience of the country, or have contracted "marriages with the natives, and who understand the navigation and the language." This mixture of Arabs, Mestizes, and Negroes presents a picture perfectly similar to that seen by the Portuguece upon their first arrival; and except that another race of Arabs, of another religion, had succeeded in the place of their more barbarous ancestors, and had carried their commerce to a greater extent, the resemblance is complete.

### The Imports here are,

Λόγχη προηγεμένως η τοπιώς με- Javelins, more especially such as πασμευάζομένη εν Μέσα.

Javelins, more especially such as are actually the manufacture of Moosa.

Πελύκια.

Hatchets or Bills. Knives

Μαχάιρια.

feceral coasts where they had not an inch of territory; but the Romans never had a province on this part of the coal of the Red Sto, or an the ocean. If they ind an Arabita prima and feconds, thefe must have been in Petres, fouth of Joedn. It is for this readow, I think that Drong the I. I is for this readow, I think that Drong the I. I is for this readow, I think that Drong the I. I is for this readow, I think that Drong the I. I is for this readow, I think that Drong the I. I is for the read of the that the I. I is for this read of the that of Arabita Fulls, the king of which was Chariland, with whom the Romans always greated, and Maghase or Mopharices appears

to be a territory under that division. See Periplus, p. 12.

131 It is a tract in Arabia mentioned next to Moofa, the capital of which is Saule; if we might be allowed to read 25s for 25se, it would be the modern Sana, capital of Yennen, for the Periplus fays, it lies three days inland; but this is highly dubious.

210 Υπόζορο άυτη έχευν.

213 Zennadis,

#### PERIPLUS OF THE ERYTHREAN SEA.

156 'Ordrus.

Awls.

Λιθίας Υαλής πλέιονα γένη.

Crown glass of various forts.

And to these commodities we must by no means omit to add a store of corn and wine carried out by the traders, not for fale, but for the purpose of entertainment, and ingratiating themselves with the natives. This is fo truly consonant with the modern system of carrying out spirits to America, and the coast of Africa, that the resemblance should by no means be suppressed.

### The Exports are,

Lλίφας πλίιςος, ήσσο δὶ τὰ Αδυμε το read the state of the state of

Rhinoceros, the horn.

'Ρινόκερως.

Χελώνη διάφορος μετά την Ινδικήν. Tortoile-shell of a good fort, but inferior to that of India.

Νάυπλιος όλίγος.

The articles of import here are nearly the fame as an African invoice at the prefent moment; and in the exports it is fome degree of disappointment not to find gold. For as the fleets of Solomon are faid to have obtained gold on this coaft, as well as the Arabs of a later age, and the Pertuguese, we naturally look for it in a commerce which is intermediate; and the nearer we approach to Sofala the more reason there is to expect it. Our present object, however, is not the trade but the geography.

It has been already stated \*\*\*, that the measures of the Periplus accord with the degrees of latitude between Gardefan and Quiloa within five miles 225, a difagreement upon twenty degrees wholly infignificant. But if it should be thought that the measure by a day's course is too vague to support the assumption of Quiloa for Rhapta, it may be answered, that in a voyage performed both ways, with the different monfoons, and repeated yearly, this estimate may be reduced almost to a certainty; far more so at least than any courses the Greeks could estimate in the Mediterranean. Ptolemy's objection to this will be confidered in its proper place: for the prefent it is fusficient to fay, that the agreement of the measures is the first principle for the assumption of Quiloa; the second is, that the peculiarities of the coast coinciding with the detail of the journal all point to the fame foot; the feven days courses terminating each at a river, cannot be applicable to any tract but the coast of Melinda, comprehending the mouths of the Obii, and the termination of thefe at Mombaca, which is assumed either as one of the Pyralian itlands, or as a place strangely marked by the title of the New Canal. One reason for placing this at Mombaca is, that a canal implies fomething on the continent rather than an ifland in the fea. and the Pyraláan illands preceding this feem, therefore, naturally to be the fpots enclosed and divided by the mouths of the Obii, on which Ampaca, Sio, Pate, and Lamo are placed, all marts of later date, corresponding with some of the feven courses of the Periplûs. Another reason for assuming Mombaça is, that it is on an island in

<sup>516</sup> See Table, p. 135.
but if it can be reconciled within a degree, or
52 It is not actent to build on this appearance to the correspondence is extraordimentalistic the charty differ consistently;
5 and

a bay separated from the land by so narrow a channel that it is joined to the main by a cansey at low-water 11, there is a strong similarity in this to a canal cut, or supposed to be cut; but a third point we may infist upon, is still more convincing, which is, that neither the Pyraláan illands, or the New Canal (whatever it may be) are mentioned as lying at a distance from the coast, whereas the next fation is expressly noticed as an isse three hundred stadia, or thirty miles off shore.

#### MENOUTHESIAS.

XX. This ide is the Eitenediommenuthefias of the Periplûs 127, a term egregiously firange and corrupted, but out of which the commentators unanimously collect Menúthias, whatever may be the fate of the remaining fyllables. That this Menúthias must be one of the Zanguebar islands is indubitable 125, for all three, Pemba, Zanguebar, and Monsia lie nearly at thirty miles from the coast, and this character is indelible. Which of the three it may be, should not hastily be determined, but it can hardly be Pemba, which is the first, or most northerly, because, if the first were touched at the others must be passed, and ought to have been noticed; neither would the distances agree, either from the new canal to Pemba, or from Pemba to Rhapta. Zanguebar as the centre and most con-

Marmol, vol. iii. p. 150. Oforius, tance. If it should ever be found that Pemba, vol. ip, 50. Castaneda, p. 22. in its various orthography Penda, Pendea, Sc. bears any refemblance in a ma\*\*\*2 Sec Appendix, No. iii.

Stuckius supposes the Pyraláan isses to tive sound or form, to Pyraláan, tiss question answer to the Zanguebar islands, or Zangue. might require further consideration; but at bar itself; but it is evident the Pyraláan are prefert I can discover no such relation. See near the main, and these at thirty miles dis. Stuckius, p. 3;

spicuous naturally attracts our attention, and Zanguebar is offumed by Voffius in opposition to Salmasius, Stuckius, and a cloud of opponents12. Not that we must suppose Vossius prejudiced in favour of one of these islands more than another, but that it must be one of the three, and ought to be that with which the distances of the journal are most consistent. The journal is very precise on this head, it gives two 100 hundred miles from the New Canal to Menûthias, and one hundred from Menûthias to Rhapta; marking at the same time the distance of the island from the main, and the return of the course from the island to the continent. A reference to the map will now shew that these measures agree with the course from Mombaça to Monsia, rather than Zanguebar, and from Monfia to Quiloa. It will be thought fanciful to fuggest a refemblance between Monfia and Mcnûthia; but I cannot restrain melf from the supposition, though I should not venture to fix a position on such grounds. However this may be, I shall. now give the description of the island from the Periplus, and leave. it for future navigators to determine which of the two islands correfronds best with the characters that are noticed; these are, that it is low and woody, that it has rivers, and abounds with a variety of birds. and with the mountain or land tortoife. It has no noxious animals, for though it produces crocodiles, they are harmless. 'The natives

<sup>\$10</sup> Sec Table, p. 135.

first found that forgodied an idea to'a Goods, in the fame manner; possibly also some affining generally led him to had a Greek some, and might this be traced from the natives.

<sup>219</sup> See Salmaf. Flatian. Exerc p. 1243. often to add a Greek tale of mythology to the Volius ad Melam. Cellarius, lib. in. c. 8. p. 163. name. 'There can be little doubt that Zocotona is a native term of the earliest date, but ur Greater corrupters of foreign stones the Greeks turned it into Disservices at the than the Greeks there cannot be, and the first step. Passibly Montia was made Monthia

use the Rhapta or sewen vessels \*\*\*, both for fishing and catching turtle, and they have likewise another method poculiar to titemselves for obtaining the latter, by fixing baskets instead of nets at the interstices of the breakers\*\*\*; through which the fea retires, when the tide is going out. These circumstances, it is probable, will enable some future visitor to determine which of the two isles we are to call Menûthias; that it is one of them is demonstrable. There is some reason for thinking Zanguebar is not some \*\*w\*. When the cocodies which do no harm, I should have supposed them to be the very large lizards not unstrequent in these latitudes, if I had not observed that the journal, when treating of Zocotora, mentions both crocodiles and very large lizards which the natives eat \*\*\*. Crocodiles will hardly be found in islands which cannot have rivers of any great extent or deoth.

After these deductions, there is every reason to conclude, that the Menûthias of the Periplûs is fixed indubitably at one of these two

232 Barbofa notices this circumflance at the Zanguebar iflands.

433 Πιεί τὰ τόματα τῶν προέχων.
434 When Duarte de Lemos invaded Zan-

guebar in 1510, the natives fled to the meuntains. Faria, vol. i. p. 158. But, perhaps, if low on the coast, the island may fill be

called &co.

\*\*19 By referring to the maps for the form
of Monfis, it appears both in Reflende and the
modern charts like a femicircle or horfe shoe,
encolongs a bay on the weltern folds, refembling
those islands in the South Seas which Cooke
describes as a reef rearing its fummit above
the fea. From this form I conclude it to be

low, which is one of the characters of Menûthias in the Periphis. But I have no politive authority to depend on. Reffende fays it is the largest island of the three, and twenty-five

leagues in length. MS. in the Brit. Mufeum, p. 102. et fen.

246 See Peripl. p. 17. Lánges úregaryfur. But Herodotus fays the Ionians called [categor] Ibrards by the anne of crecodiles, lib. iii. Sal. maf p. 873. See alio Laval's Voyage. Harris, vol. i. p. 703. At St. Augustin's bay in Madagaters, the fays, the place was covered with an infinity of large lizards which burt no Islands, the distance from the main is such as to fuit no other upon the coast; for all the modern accounts concur in giving it at eight leagues, which are geographical, and which, compared with thirty Roman miles 407, approach too nearly to admit of a dispute. This is a point which has employed fo much pains to fettle, because the conclusion of the journal, and the limit of discovery, depend upon it; for if we are right in Menùthias we cannot be mistaken in Rhapta. The distance from Monfia to Quiloa is as nearly an hundred miles as can be meatured, and two days course of the journal is an hundred miles likewise; but we are no otherwise determined to Quiloa than as a known place, and from the fupposition that the convenience of the spot might have attracted the natives or the Arabs, to fix a city here in the early ages as well as the later. The journal calls it the last harbour of Azánia, and the termination of discovery. The modern Ajan is bounded at Cape Baxos, or as others flate, at the Obii, and the coast from thence to Cape Corrientes, comprehending the modern Quiloa, is ftyled Zanguebar; it is this coast which Marco Polo calls the island of Zanguebar, to which he gives an extent of two thousand miles, and in which he is not more miftaken than Ptolemy in his Menûthias, or in the inclination he gives this continent towards the eaft. The Periplûs fixes its own limit without monfters, prodigies, or anthropophagi; a circumstance this, above all others, which gives reason to suppose that the author visited it himself ""; for the marvellous usually commences where knowledge ends, and this author indulges

<sup>217</sup> Sixty geographical sulca are equal to default cognitio, ibi fingendi incipit ferenty-five Roman. Caffanteda fays, tra licentia. Vof. ad Melam, p. 305. heyaesp. 67.

the fame paffion as other writers, when he advances beyond the boundary of his own knowledge in the east; but of this more in its proper place. It is our present business to consider the fite affumed for Rhapta at Quiloa, with the feveral circumstances that attend it.

The Periplus always employs the title of Rhapta in the plural. and notices it only as it is a mart or harbour; but Ptolemy has a river Rhaptum on which Rhapta stands, and a promontory Rhaptum more than a degree and a half farther to the fouth. It must be observed, that this is very much in harmony with the actual fite of Quiloa, which is on an ifland in a bay at the mouth of the river Goavo 529, with Cape Delgado at the distance of somewhat more than a degree to the fouth. D'Anville has affirmed Delgado for the Prasum of Ptolemy, in which I should not so confidently fay that he is mistaken, if I had not proved that he has totally neglected the Menûthias of the Periplûs 400, the very point upon which all our positions in the neighbourhood depend. But if the Rhapta of Ptolemy and the Periplûs are the same, of which there is no doubt, then the circumstances of Ptolemy apply to Ouiloa, and to no other place upon the coaft. In this opinion I am not fingular; for Voffius 44, as he agrees with me in mak-

239 See the Voyage of Thomas Lopez, in Ramusio, vol. i. p. 134. Fra. Quilloz nuova e la vecchia e uno finmo. A proof of more establishments than one in this neighbourhood.

240 D'Anville supposes the Menuthias of Ptolemy to be Zanguebar. But he does not take into his calculation the fite of that island, the fouth of it.

241 Menûthias illa est infula que nunc Zanguebar appellatur, buic enim omnia conveniunt que veteres de Menúthiade scribent, non infulre S. Laurentii, quæ plane ignota fuit Gracis ac Romanis, ut plenius alias oftendamus, Raptum vero promoutorium est illud quod Quiloz vocatur. Voffices ap. Calarium. It will be fliewn hereafter in what fense Maor the necessity there is for Rhapta being to dagafear was unknown to the Greeks and Romans. See Cellarius, lib. iv. c. 8. p. 163.

ing Menuthias Zanguebar, unites also in allotting Rhapta to Quiloa.

#### PRASUM.

XXI. It is now to be observed, that Ptolemy "4" in going down the coast of Africa, as he has the same names with the Periplus 447, so has he the fame termination at Rhaptum; for his Prafum and bis Menûthias are thrown to the conclusion of his account of Africa, and do not appear to be collected from any regular journal like this before us; but to be founded upon the report of fome voyagers who had advanced farther fouth, in the intermediate time which had elapfed between the date of the Periplus and that of his own publication. But if it follows from this that the Periplûs is prior to Ptolemy, fo is there great reason to believe, that if he did not follow this journal as low as it went, it was one nearly of the fame age. The hefitation with which he fpeaks about all below Rhapta proves that he had no regular data to proceed upon, and however he rebukes Marinus for error in his calculations, which, if adhered to, would have compelled him to carry Prasum to latitude thirty-four degrees fouth \*\*\*, he himself has a method by no means more efficacious. Marinus, it feems, was upon his guard, and had reduced this excess to 23° 30' o" fouth, or the tropick of Capricorn; but Ptolemy objects to this, as ftill too diffant, and reduces Prafum to latitude ir' fouth, because, says he, the people there are black, and the

<sup>243</sup> Africa, cap. vii. table iv. 247 See Table, p. 135.

Good Hope, latitude 35° 30' o". See Ptol. confulting.

lib. i. c. q. The whole of Marinus's error is imputed to calculating diffrances by the day's 14+ It is a remarkable circumstance that this course of a ship; and the chapter that conshould be nearly the latitude of the Cape of tains this charge is highly curious, and worth

country produces the elephant and the rhinoceros, circumstances which occur in latitude 15° north in Ethiopia, and confequently ought to occur again as many degrees fouth of the equator. This method of fixing a latitude is by no means fatisfactory to Ramufio; for he tells us he was acquainted with a Portuguese pilot who was well read in Ptolemy245, and who objected very acutely, that if this ground were admitted, the inhabitants of Spain ought to be of the same colour with the Hottentots; for the straits of Gibraltar are nearly in the same latitude north as the Cape of Good Hope fouth. Without infifting upon this, it is evident that Ptolemy had no data from the journals to proceed on. But when he places Rhaptum in latitude 8° 25' o" fouth 246, and Prasum in 15° 20' o" fouth 247, he makes but one step of seven degrees, without a feature of the coast, or a circumstance intervening, which might enable us to judge whether the voyage had ever been performed or not; but here we find a nation of Ethiopians or Negro Anthropophagi directly.

### MENOUTHIAS, of Ptolemy.

XXII. It is opposite to this Prasum, but towards the north east 148. that Ptolemy has placed bis Menûthias, and at the distance of five dcgrees from the continent; for his Prasum is in longitude 80°, and his Menûthias in longitude 85°. His latitude of Prasum is 15° 30' o" fouth 40,

<sup>245</sup> As probably all the Portuguese pilots tudes from the Latin text, from a supposition were in that age.

<sup>2,6</sup> Latin text 8° 36' 0". 247 Latin text 150 0'0".

<sup>2+9 &#</sup>x27;Ard Stewis dentalies.

Mearchus I had taken the longitudes and lati-

that it was more correct than the Greek, and of equal authority; for it is not a translation, but supposed to be taken from an older and better Greek copy. A learned friend cor-Latin text 12°. In the Voyage of rected fome of my errors by referring to the Greek, and advited me to confult it more.

his latitude of Menúthias is 12° 30' o". It is from this latitude of 15° fouth, that the early Portuguese universally assume Mosambique for Prasum; and if it were so, the Menûthias, sive degrees to the east, can be nothing but Madegascar. Now it is not necessary to affert that either of these assumptions is true; but, true or false, it is evident that the Menuthias of Ptolemy is different from that of the Periplûs. The one is opposite to Prasum, between 12° and 15° fouth; the other is north of Rhaptum, and is in 9° fouth. The one is five degrees, the other is only thirty miles from the continent. Where Prasum is to be placed is an object worthy of inquiry, if there were data fufficient to determine it, as it is the final limit of ancient discovery to the fouth. I can point out no fitter position for it than Mosambique; and if the Greeks did reach that port, they must, probably have heard of the great island. The name of Menûthias was possibly assigned to it, as the name of the last island known, like Thulè in the north, or Cernè on the fouth, for a Cerne is found as the limit of African knowledge both on the western and eastern side of the continent. Hanno, or at least those who followed him, sinished their voyage at a Cernè 250; and Pliny, as well as Dionyfius, finds another in the Indian Ocean. One of the first names by which Madagascar was known in Europe was the Island of the Moon, possibly an Arabian interpretation of Men-úthias 31; but Marco Polo calls it Madaster, an appellation

whose opinion I do not subscribe.

letter to John II. king of Portugal. . He favs

250 Piasao went farther; but in the time this was the name by which the natives called of Scylax Cerne was the limit. See Mr. Gof. it. This, as attributed to the natives, may be felin's Recherches, tom. i. on this fubical, to doubted; but it is certainly the term used by the Arabs, as appears from Al Edvilli. Ma-151 It is Mo not Mrs. or elfe I flould con- dather, the name given by M. Polo, is more like-

feler this as certain. The Island of the Moon by to be the native appellation. He is the first is a term feat to Europe by Covilham, in his author who conveved this name to Europe.

which it received from the navigators of his age, who where apparently Malays rather than Chinefe; and to that language we should look for the etymology of the term.

XXIII. LET us paufe at this boundary of ancient discovery, and examine briefly the opinions of mankind upon the fubject. To commence with our author, nothing can be more guarded or unaffuming than his language. The ocean, he fays, beyond Rhapta, as yet undiscovered, sweeps round with a turn to the west; for as it washes the shores of Ethiopia, Libya, and Africa in their inclination to the fouth west, it joins at last with the Hesperian or Atlantic Ocean. This notion is confiftent with the general fentiments of the ancients on this fubject; and a variety of authors, from Herodotus to Pliny, not only suppose the communication of the two oceans, but the actual performance of the voyage. If credit were due to any, Herodotus has the fairest pretensions 352; he has certainly no intention to deceive, but was deceived himself by the vanity of a nation who fet no narrower bounds to their geography than their chronology; whose kings were gods, and whose gods were monsters. The natural propensity of mankind to affert the actual performance of all that is deemed possible to be performed, is not confined to Egyptians, Greeks, or Romans. The problem of a north east or north west passage to the Southern Ocean has been exploded only within these ten years; but while it was thought practicable, the pretenders to the performance of it were as bold in their affertions as the Egyptians of Herodotus.

<sup>443</sup> Haud alio fidei proniere lapfu quam ubi falfæ rei gravis autor existit. PLINY, lib. v. p. 92.

As the Aragonauts failed from the Mediterranean by the Palus Meotis \*57, and the Tanais \*54 into the Hyperborean Ocean; or as others are faid to have come from India north about by Tchutikoi 255, and through the Wolga into the Caspian Sea and Hyrcania. So in a more recent age have we an history of a ship called the Eternal Father and, commanded by Captain David Melguer, a Portuguese, who in the year 1660 ran north from Japan to latitude 847, and then shaped his course between Spitsbergen and Greenland, by the west of Scotland and Ireland, till he reached Oporto. We have a Captain Vannout, a Dutchman, who affirms that he paffed through Hudson's straits into the South Sea. Another Dutchman who sailed in an open fea under the North Pole, and a John de Fuca who failed from the South Sea into Hudfon's Bay. All these accounts have been reported and believed in their feveral ages, convicted as they now are of falsehood or impossibility, and traced, as they may be, to error and amplification. To this spirit of vanity it is doubtless that we may refer the Persian Fable of the voyage of Scylax. the Egyptian boast of the circumnavigation of Africa; the Grecian vanity concerning the fame achievement by 457 Eudoxus and Magus 258; and the ignorance of Pliny in carrying Hanno from

<sup>255</sup> Pliny did not quite think this impossible, fet in their true light, may confult Strabo, Hb. ff. c. 67.

<sup>250</sup> The Sea of A foph and the Don. ass Strabo, ai. p. 518. On a barrie,

Harrowski turner. See Pliny, lib. ii. c. 67. 256 Perquie's Voyage, vol. ii. p. 103. Eag.

<sup>157</sup> Those who with to see the mendacity

of Endoxus, and the credulity of Pofidonius

D. 101.

<sup>258</sup> I am not certain whether Magus be a proper name or not, but he is one of the pretenders to this circumnavigation, mentioned by Strabe from Posidonius, lib i. p. 42, fent by Gelo of Syracule, and confidered as an impostor by both.

Carthage to the Red Sea, notwithstanding his own journal was extant, which shows that he never passed the equator \*50.

Nothing is more easy than to affirm the accomplishment of these great attempts, where an author clogs himfelf with neither circumstances or particulars; but whenever we obtain these, as we do in the journal of Nearchus or the Periplus, we find indeed that the ancients performed great things with flender means; but we fee plainly also what they could not do. We fee, with fuch velicis as they had, they could neither have got round the Cape of Good Hope, by adhering to the coaft, where the fea and the currents must have been infurportable, nor could they have avoided these by standing out to fea, as they had neither the means nor the knowledge to regain the shore if they had lost fight of it for a single week. It does not appear in the whole history of ancient navigation, that any voyage was performed either in the Mediterranean or on the ocean by any other means than coasting, except the voyages from Arabia and Africa to India; and back again by the Monfoons. It does not appear that there was any fort of embarkation known in the world which was fit to encounter the mountainous billows of the flormy Cape 400. History speaks of no vessels fit for the ocean but those which

multiplex afforgit inflar totidem montium reciprocatorum, qui fluctus nequaquam frangitur; coque haves deferente: ad infulam Kambalah. que in prædicho mari fita ad Al Zang (Zanguo-

<sup>259</sup> Campomanes places the Gorillas at St. Thomas under the equator, but probably with, out fufficient authority.

The fame report which was made to M. Polo, concerning the violence of the fea beyond Cape Corrientes, is to be found in almost all the Oriental writers. In the follow: ing quotation we have the evidence of two. De homedans on the coast of Zanguebar, that fluctibus hujus maris res prorfus flupenda nar- there was a trade thither from Arabia or the

bar ] pertinet, incole faut Moffemi. Abul feda, in verfione Gagnieri. MS. in Bodleiana Bibl-We here learn that there were Arabs, Marantur. Luquit Al Sherif Al Edriffi ibi fluctus Red Sea, and that the navigation beyond was

which Cæfar describes on the coast of Bretagny; and if the Phenicians came to our island for tin, assuredly it was a summer voyage. The vessels of the Mediterranean were unfit for this service, not so much from their fize as their built; and if it is observed that Solomon and the Phenicians traded in the Red Sea, and down the coast of Africa, perhaps as low as Sofala, it must be conceded, also, that vessels built at Ezion Geber could not be large, and that the danger of the voyage, as far as they proceeded, was attended with a terror, that perhaps nothing but the Phenician thirst of gain could have furmounted. This terror Bruce has noticed with much acuteness. The prison, the ftraits of burial, the port of death, and the gate of affliction, he remarks, are names given to the marts in the course of this navigation; and if fuch was the alarm upon the mind of the feamen, when they wifited this track in the favourable feafon of the monfoon, what must it have been if they had attempted to pass Cape Corrientes 261, and had launched at once into the ocean which furrounds the extremity of Africa. Cape Corrientes (so called from the violent currents formed by the pressure of the waters through the narrow channel between Madagascar and the main 263,) was the boundary of Arabian navigation when Gama first came upon the

unattempted on account of the mountainess fea. See Al- Edriffi, p. 28, et feq. who mentious beyond softsla, Tchan where there is a hollow mountain, whence the waters rufi with a tremendoors roun, and a magnetick rock which draws the sails out of flips. Some other places to the fouth are mentioned, but with great obfeurity, as Salos, Daudens, Galla, Diguttas, and Olasc-Oute, the termination of all knowledge on the coal of Africa and indeed of all the geographical knowledge and indeed of all the geographical knowledge.

of the Arabs, p. 34. Such is the account of AI Edriffs, who wrote amo 548, Hegira of 1153, about a century before M. Polo, and apparently about 500 years after the decline of the Creek and Roman commerce from Egypt. <sup>247</sup> Facile homines abfinere foldent ab its locis unde vie untils vield inficilis fit reprefitus.

Voffius ad Mel. p. 595.

252 Marmol deferibes not only the currents, but islands, shouls, and the most violent winds that are known. Vol. iii. p. 106.

coaft; whether the Phenicians, Egyptians, Greeks, or Romans ever reached fo far may well be doubted, if they did, the Prafinn of Marinus and Ptolemy may as properly be placed there as at Mofambique, but that farther they did not go is certain. The Arabs knew the coaft earlier, later, and longer than all of them united; they were fettled here while the others were transfert wiftors, and they had the opportunity of observing the seasons, winds, and currents; and what they did not dare attempt, no nation, unless possessed of the proposed to have accomplished.

XXIV. Bur from argument let us come to facts, and bold as the prefumption may appear, it is not too bold to affert, that there is no evidence of a farther progress to the fouth, on the western coast of Africa, than that of Hanno, nor on the eastern, than that of the Periplús. In afferting this, if I detract from the authority of Heródotus, Diodôrus, Ptolemy, Juba, and Pliny, it is a detraction consistent with the most perfect veneration of those great and illustrious authors, for they have all followed the reports of others, while the authors of the Periplús and Hanno speak from their own experience. It is from reports of others that we hear of a Cernè, and a Southern Horn, on both sides of this wast continent. These names were, in the respective ages, the ne plus ultra of knowledge on both sides; and whoever failed, either from the Red Sea, or the Mediterranean, arrived at these facility opposite to Gama. The

x58 Rien n'étoit fi peu avéré chez les anciens, comme on en juge par Prolemée, que par le Midi. D'Anville, Geog. anci. tom. iii. le récin qu' on faifoit de quelques navigations p. 68.

Southern Horn of Ptolemy, on the eaftern coaft, is in latitude 4° 50' o" north, and the extreme point of Africa 164, is nearly in 35° fouth, making more than thirty-nine degrees difference: the Southern Horn of Hanno, on the wostern coast, is in latitude 7° north, making two and forty degrees from the same extremity; but if we take both together, reckoning eighty-one degrees from one Southern Horn to the other, this is a space that Pliny reduces as it were to a point, and confiders the junction of the Atlantick Ocean, as taking place almost instantly; Juba takes a much bolder flight, and reckons the commencement of the Atlantick Ocean from the Bay of Mofyllon, annihilating by this method, if it were poffible, the immense triangle of this vast continent 268, and bringing his own Mauritania almost in contact with Arabia. The particular attention of all who are curious on this fubject is requested to this point, for it is upon conceptions equally erroneous as this, that too many of the ancients supposed the circumnavigation of Africa as poffible as the doubling of Málea or Lilybeum. And this supposition of the poffibility produced the belief of the performance. Pliny is felf-evidently chargeable with this misconception, and Heródotus had probably no means of information by which he could form a indoment of the extent of Africa to the fouth.

It is on this ground above all others that we may affert, that the author of the Periplia vifited Rhapta in perfon; he had not heard of Prasum, a proof that the account of it is posterior to his age; he takes no notice of the circumnavigation ever having been accomplished, a proof that he knew nothing of Heródotus, or did not

<sup>2&#</sup>x27;4 Cape Agulhas. Variorum edition of Pomp. Mela, by Js. Gro202 By confulting the map inferted in the novius, it will be feen that this is a fact.

believe his report; and he favs nothing of Cernè, which is a proof that the miftake attending it, commenced from the Mediterranean and not from the Red Sea. That the general tendency of the coast was fourh weft he faw as far as he went, and that it continued fo, he might collect from the natives or the Arabs, or he might conclude the union of this fea with the Atlantick, from confidering that converging lines must meet. But whatever source of intelligence he had, that he should mix nothing marvellous or extravagant with the termination, is a merit that few geographers in the ancient world can boaft.

The facility with which Pliny 266 carries his navigators round the world is rather magical than false; he annihilates space, and finks continents under the fea. He supposes that the Macedonians in the time of Seleucus and Antiochus, failed from India into the Caspian Sea, and that the whole Hyperborean Ocean was all but explored 267 quite round to the north of Europe. The circumnavigation of Africa is effected with equal celerity; for this was accomplished not only by Hanno 268 from Gades to Arabia, and by Eudoxus from Arabia to Gades; but long before Eudoxus, Celius Antipater had feen a merchant who failed from Gades to Ethiopia. Nothing can be fo unfortunate as these affertions; for we have Hanno's " own account to prove he never was within forty degrees of the cape, and Strabo's authority to prove, that Eudoxus never came from Egypt to Gades by the ocean, but by the Mediterranean; and that full

<sup>206</sup> Lib. ii. c. 67.

a) Parvoque brevius quam totus; hinc aut illine feptentrio eremigatus. Ibid,

Hanno, lib, v. c. 1. but almost as if he had not " doubled the Cape of Good Hope." p. 2fcen them, and certainly as if he did not be-

lieve them.

<sup>2.9</sup> This is fo readily admitted by common, inquirers, that Mickle in his translation of the 265 Pliny mentions the commentaries of Lufiad fays: " Though it is certain that Hanno

as his mind was of attempting the voyage, the attempt if made would have commenced from Gades, if he had found protectors to patronize his undertaking ". Of Celius Antipater we can fay nothing, but if he did meet with a merchant who had failed from Gades to Ethiopia, it was certainly not the Ethiopia fouth of Egypt, but that on the western coast of Africa. No merchant or merchantthip could have performed a voyage which the greatest potentates must have attempted in vain. But the most extraordinary circumstance still remains, which is, that there is in this place no mention of Heródotus", or the voyage he attributes to the Phenicians in the reign of Necho. This is the more remarkable as the account of Heródotus has strongly the semblance of truth, while Hanno and Eudoxus never pretended to the honour of the achievement themfelves, nor was it ever imputed to them by any one who was acquainted with their real history, their fituation, object, or defigns.

It is with great reluctance that I controvert the testimony of Heródotus, for it is no light offence to question historical facts upon evidence of mere speculation. It must be confessed likewise, that the facts he gives us of this voyage, though few, are confiftent, The shadow falling to the fouth, the delay of stopping to fow grain and reap an harvest, and the space of three years employed in the circumnavigation, joined with the fimplicity of the narrative, are all points fo strong and convincing, that if they are

"" Strabo, p. 101, 102, where he allows the and fo fond of placing it in an early age, that he fees no difficulties in his way; and he procoeded to much upon hypothesis that he neglected history. He knows fo little of the voyage of Nearchus, that he makes him fail along the coast of Ariana instead of Mekran, and come up the Gulph of Arabia instead of Perfia. See vol. i. p. 456 and 470.

voyage to India, but refuses all credit to Endonus. Euergeics, [Hd.] he fays, could not want guides to India, there were many in Egypt; which is true, fo far as fingle perfons and fingle fhips had reached India. This queftion will be examined in Book IV.

<sup>. 774</sup> Bruce is fo full of an East India trade,

infifted upon by those who believe the possibility of effecting the passage by the ancients, no arguments to the contrary, however founded upon a different opinion, can leave the mind without a doubt upon the question. That different opinion I confest is mine, but I wish to state it with all deference to the Father of History, and with the profession that I am still open to conviction, whenever the weight of evidence shall preponderate against the reasons I have to offer.

I allow with Montefquieu, that the attempt commenced from the eaftern fide of the continent, prefents a much greater facility of performance than a fimilar attempt from the weft; for we now know that both the winds and currents are favourable for keeping near the coaft from the Mofambique Channel to the Cape; and that after paffing the Cape from the eaft "", the current fill I holds to the northward up the weftern coaft of Africa. But the prodigious fea, raifed by the junction of the two oceans, almost perpetually, and at every feasion of the year, is such, that sow of the fleets of Portugal, in their early attempts, passed without loss; and the danger is now avoided only by standing to the south "". The latter means of safety could not have been adopted by the Phenicians, they could not stand out to sea; and if they adhered to the coast, by all that we can now judge from the construction of ancient vessels, shipwreck must have been inevitable.

But to omit these considerations for the present, let us observe, in the first place, that the actual performance of this voyage stands upon a single testimony, and of all the circumnavigations affirmed,

<sup>&</sup>lt;sup>272</sup> See Forrest on the monstoons, p. 10. 13. fallen in with the Lee Islands so graphically and In attempting which, several ships have described by the illustrious Cook.

this is the only one which will bear an argument. If it took place in the reign of Necho, Heródotus lived an hundred and fixty years after the fact 274, and received the account from the Egyptians. That Heródotus did receive the account, must be indubitably admitted. His general veracity is a fufficient voucher. But that the Egyptians deceived him is an imputation which he does not feruple to infrance in fome other particulars, and of which we have the most undoubted evidence at this day. If we take the date of Necho's reign in 604. A. C. 275, and allow that he was a fovereign attached to commerce, (as appears by his attempt to make a canal from the Nile to the Red Sea,) it will be readily granted that he must be acquainted with the navigation of that fea, and the commerce carried on there, and on the coast of Africa beyond the straits by his own fubiects, by the Arabians or the Tyrians. The Egyptians had probably the least share in this, but the trade itself is to all appearance as old as Thebes, and the cause of its solendour and apprandizement. That it was profecuted by Solomon 276, Hiram, and Jehófaphat we know historically; and that it was enjoyed in all ages by the Arabians in fome form or other, there is every reason to believe from the commodities found in Egypt, Palestine, and Europe. These causes, and the testimony which Agatharchides bears, that the gold mines on the coast of the Red Sea were worked by the native kings of Egypt, prove that Necho might wish to extend his knowledge down the coast of Africa to its termination, and that he might confequently fend a Phenician fleet to the fouthward for that

<sup>574</sup> The voyage ordered by Necho is placed by Blair about ante Chiff. 604. Heródotus read his hiftory 445

<sup>&</sup>lt;sup>275</sup> His reign begins in 616, and ends in 601. Blair. <sup>276</sup> Solomon died in 980, A. C. Jahofaphat in 889 Necho is near 300 years later.

purpose. But that they executed their commission is not quite so cafy to believe. Had this fleet no difficulties to encounter, because we read of none but the want of provisions? Can we suppose the Phenicians fo fuperior to the Greeks in the art of navigation, as to have no dread of passing the greatest promontory in the world, when Nearchus and his officers shuddered at Mussendon, and dare not attempt Raf-el-had? Can we believe that Phenicians who had never croffed the Indian Ocean were bolder mariners than the Arabians, who trufted themselves to the monsoons? and yet the Arabians never dared to try the Mofambiouc current, during their neighbourhood to it for fourteen hundred years, while thefe Phenicians launched into it at first fight? To them the terrors of the flormy cape were no barrier, and the promontories on the western coast of the vast continent no obstacle. Were all these which the Portuguese surmounted only by repeated attempts, and by a persevering fpirit exerted for almost an hundred years, to be passed by Phenicians on their first expedition, and in the course of a few months? Raife them as we pleafe above Greeks, Romans, and Arabians in science, they were doubtless inferior in courage to them all. And whatever science we allot them, the smallest bark could have been conducted by the knowledge of a Portuguese pilot in greater fafety, than the largest vessel ever fitted out of Egypt. Some admirers of the ancients, not content with supposing the execution of fuch a voyage, are willing to give them the means, by furnishing them with the compais, and other nautical inftruments; thefe, it is faid, were found in the poficifion of the Arabians, at the time the Portuguese first came into the Indian Ocean, and that they were afterwards met with in India and China. The fact is true, but this

this was in the latter end of the fifteenth century, and the compais is faid to have been known in Europe early in the thirteenth "77; it had therefore passed from Italy into Egypt, and from Egypt to the Red Sea. But this argument, if it could be supported, would effectually contradict the hypothetis it is brought to support; for it would prove, that the Arabians of Mosambique, who really poffeffed these instruments, had never been enabled by them, nor ever dared to pass southward of Corrientes in their neighbourhood, while the Phenicians had actually circumnavigated the whole continent. Now, if the Phenicians had not the compass, how could they perform what was with difficulty performed by it? If they had it, how happened they to perform fo much more by it in an early age than the Arabians in a later? But this question has been fet at reft by Niebuhr, Mickle, and fir William Jones, who shew that the Arabian 278, Indian, and Chinese compass is formed from that of Europe.

But let us now examine the text of Heródotus. The narrative of this voyage is introduced in a paffage where he is giving the limits and extent of the three continents, and here he fays, that Neco proved Africa to be furrounded by the ocean from the completion of this voyage. One expects, however, to hear of the officer who commanded; it was at least as great an exploit as any which the fabulous navigators had achieved. Sefonchofis, the Oriental Bac-

Guyot de Provence. 271 The Arabick name for the compafs

is Buffola, evidently Italian. Concerning the Chinele inflrument there is fome obscurity; but it was fo mean a tool that it is hardly worth discussing. The probability is, that

<sup>277</sup> Arbuthnot, p. 280. from Fauchet and the Melays had it from the Arabs, and the Chinese from the Malays. But the Chinese themselves claim the invention 1120 years be-

fore the Christian cra; and from China fome fav it was brought by Marco Polo, but he does not mention it himfelf, and it is therefore most probably a fiction.

chus, and Hercules, whatever might be the extent of their victories. peregrinations or voyages, fell far short of this, and they were immortalifed; while among the Greeks, Jason, who failed little more than feven hundred miles, was himfelf worshipped as a hero, and had his ship translated to the sphere. How happened it then that the greatest discovery which the world admits, should confer no honour on the discoverer? The name of Sataspes still lives in the same page of Heródotus, whom Xerxes put to death because he attempted the same circumnavigation in vain, from the straits of Gades: and the following page celebrates Scylax of Caryanda who paffed from the Indus into the Gulph of Arabia, to the point from whence the Phenicians had commenced their expedition. I have as little faith in the voyage of Scylax as in that of the Phenicians; but it is unjust that Darius should suffer the name of the inferior to furvive, while Neco should totally suppress the fame of the superior. The great argument against both is the total failure of all confequences whatfoever, the total want of all collateral evidence, and the total filence of all other historians but those who have copied from Heródotus. And in his account the narrative closes with a sentence. which if it were not otherwise interpreted by his most excellent and learned editor, I should consider as throwing a tint of suspicion over the whole "79.

The fentence in one view feems to intimate that the Carthaginians had circumnavigated Africa as well as the Phenicians; and if that be its

<sup>175</sup> The pallinge in, Maris M Kaepalkind inn in Affrice Atlantico mari afperfus, de Sanafpe Adoptes in Zanderne yn i Tuderner, which Pause, millil con coviffic. Que duit wir engisteme haber, reada is radiores, and which Welfeling calls un one communde, this 1, 298. But he reads hariolation, but addit, Carthaginenies exim it otherwise himidif, and very harshly: Lurcher Samibus definited an avagitationist, a creation const follows: Welfeling.

real import, it can only allude to the voyage of Hanno 200, which might have been deemed a circumnavigation in the age of Heródotus as readily as in the age of Pliny; and if fo, it would invalidate the Phenician account as much as the Carthaginian; for if the Carthaginian voyage were false, as we know it is, the Phenician could hardly be true.

This argument, indeed, is not to be infifted on, nor the oblivion to which the name of the commander is configued, but the difficulties of the voyage itself, the want of means to surmount them. the failure of confequences, and the filence of other historians, are objections not to be fet afide without stronger evidence on the other fide than has yet been produced.

But as it is not in our power to prove a negative, let us now examine the politive testimony of other authors in opposition to that of Heródotus. The author of the Periplûs favs directly, that the ocean never was explored on the eastern fide to the point of Africa-Hanno gives no intimation of any one having failed farther than himself on the western side, and Scylax as, who traces the Carthaginian commerce to Cernè, maintains not only that the fea to the fouthward was unexplored, but that it was not paffable ". The iast author we shall adduce is Ptolemy, who certainly must have

the voyage of Hanno is prior to Herodotus. I can affix no date to it, but am not fatisfied with Campomanes's date, Olym. 93. Voffius thinks it prior to Homer, Strabo, p. 48. fpeaking of the African voyages of the Carthagimians fays, Mused ras Teprais verses. "The work which bears his name.

<sup>282</sup> Though this is not true, yet his men- Carthaginians.

<sup>220</sup> Weifeling doubts very juftly whether tion of the weeds which obstruct the passage is a circumstance which d'Anville has seized to prove the reality of these Carthaginian voyages to the fouth. Such weeds do occur, and do impede a ship's way, if she has not rather a brifk wind. If the latitude where thefe weeds commence can be determined, it may throw a new light on these voyages of the

been acquainted with Heródetus, however ignorant we may suppose Hanno, Scylax, or the merchant of the Periplis. And Prolemy is fo far from believing the report of Neco or the Egyptians, that he not only supposes the voyage never performed, but declares it impossible; that is, he brings round the continent of Africa unbroken with a sweep to the east, till he makes it join the continent of Afra to the eastward of the Golden Chersonese.

False as this hypothesis may be, it is still a contradiction direct to Heródotus: for though it proves that he was himself ignorant of every thing beyond Prafum, it proves likewife that he believed all pretentions to a progress farther fouth fabulous; and that where all knowledge ceafed he had a right to an hypothesis of his own as well as others. D'Anville supposes that Ptolemy assumed this system from the prevailing idea among the ancients, that there ought to be Antipodes in the fouth, correspondent to those of the northern hemisphere. Perhaps also a counterbalance of continents was as favourite a notion in the early ages as in modern. But however this error originated, the conclusion of d'Anville is remarkable ": " Nothing," fays he, " was less ascertained among the ancients, if we may judge " from Ptolemy, than the account of fome voyages which were faid " to have been effected round the continent of Africa by the fouth." And parallel to this is the opinion of Vossius \*\*4: " Certain it is, " whatever may be faid to the contrary, that the ancients were fo " far from passing the Cape of Good Hope, that they never ap-" proached it." Both these opinions are likewise supported by Strabo 205, who fays, " that all who have attempted this navigation " either from the Red Sea or the Straits of Gades, have returned"

Geog. Aneien. tom. jiñ p. 68. 53+ Voffius ad Melam, p. 303. 255 Lib. i. p. 32.

[without effecting their purpofe]; and yet Strabo, while he afferts this, is as perfectly affered that Africa was circumnavigable, as Heródotus. In giving these opinions of Ptolemy, Strabo, and d'Anville, I feel myfelf supported by the greatest authorities ancient and modern; it is hoped, therefore, that the argument here affumed will not be thought presumptuous, more particularly as it derogates not fo much from Heródotus, as from the information he received in Egypt.

## PTOLEMY.

XXV. It has been already fhewn by the table [p. 135.] that there is a general correspondence between Ptolemy and the Periphia, and their difagreement in particulars is not imputable to the authors themselves, but to the age they lived in. In that age the geographer did not navigate, and the navigator had no science "5. The geographer reckoned by degrees without observation "5; the navigator reckoned by his day's course. Modern navigators correct their dead reckoning by observation; but in the early ages science and practice had little connection: and yet fo far from their being any charge of error or negligence in this, that it is exactly the reverse. We are not to condemn the mistakes of Ptolemy in longitude or latitude, but to revere the science, which applied the phenomena of the heavens to the measurement of the earth. The navigator of the present hour is conducted on principles first established by

<sup>236</sup> Every feaman knows that his dead that he had no accounts to be depended on, doe reckoning amounts to nothing till it is conceiled by observation.

237 Prolemy, lib. 1 c. 9, tells us expressly opposite hemispheres.

Ptolemy. The errors of his maps can no longer miflead, while his principle must be of the same duration as navigation itself. I call. the principle Ptolemy's, because he fixed it and brought it into use, Thales and Anaxagoras knew that the world was a fphere. thenes drew the first parallel of latitude at Rhodes, and first measured a degree of a great-circle upon the earth; Hipparchus taught that the measurement of the heavens was applicable to the earth. And Dioscorus and Marinus are both faid by Ptolemy to have delineated maps on principles fimilar to his own; though we may judge what these were, when he fays that Marinus had the latitude of some places and the longitude of others, but scarely one position where he could afcertain both. But if Ptotemy objects to the method of Marinus. we are compelled to object to the method Ptolemy used to correct it; for he fays, that in going down the coast of Africa, Marinus reckoned by the days' course of the voyagers, and finding these carried Prasum to 35° fouth, he shortened the estimate, and placed that promontory under the tropick of Capricorn. He then enters into a long argument to prove the infufficiency of this flandard, and forms another for himfelf, by confidering the productions of nature as fimilar, at equal distances, on both fides the equator; a standard certainly not less vague; and yet on this ground, and no other, he fixes Prasum in latitude 15° fouth. Now there is a very remarkable coincidence attends the conclusion of both these geographers; for the Prasum of Ptolemy is precifely at Mosambique, and that of Marinus at Cape Corrientes; and it is still more extraordinary that Mosambique should be the last \*\* of the Arabian settlements in the following ages, and Corrientes the limit of their knowledge.

<sup>258</sup> There were Arabs lower down at Sofala, but Mofambique may well be flyled the laft-of their colonies.

From all the evidence I can collect, and all the circumstances I can combine, I find it impossible to ascertain the site of Prasum \*\*9; but I have no hefitation in carrying it farther to the fouth than d'Anville does, or in fixing Corrientes as the farthest possible boundary to all the knowledge of the ancients. The detail of Ptolemy goes to Rhaptum and no farther; fo far he had journals, and the relation of navigators to conduct him; beyond that, the voyage did not in its regular course extend; and if fingle veffels had at any time been carried to Prafum. by the winds and currents, it was accidental. But it should feem that it was heard of from the natives, or the Arabs, rather than feen, as all oircumstances and particulars end with Rhaptum; and the remainder confifts of a fingle step to Prasum, that is, near seven degrees, without mention of a port, an anchorage, or a fingle feature of the coaft,

One thing, however, is certain, that the name of Prafum is familiar to Marínus, who is prior to Ptolemy, and is not known to the author of the Periplûs. If, therefore, Ptolemy lived in the reign of Adrian, and we have an intervening writer between him and our author, we cannot err more than a very few years in affigning the date of the Periplûs to the latter end of the reign of Claudius. or the beginning of that of Nero. There is a Diodôrus Samius mentioned in Ptolemy from Marinus, who notices the course held by veffels from the Indus to the coast of Cambay, and from Arabia to the coast of Africa 290. He afferts that in the former voyage they

condemns Marious for making five thousand fladia, i. e. five hundred miles between Rhap - avarolin au Pauva Assuragia, p. 115. tum and Prafum; and yet he himfelf makes it feven degrees, which is almost the same thing below Cape Gardesan.

But if they agree in this, their difference is

<sup>259</sup> There are some coincidences so extraor- still irreconcilable; for Marious's Prasum is dinary, and fome contradictions fo firong, in 23° fouth, and Ptolemy's in 150. Marinus'sthat the choice is wholly at a fland. Prolemy line of coast tends directly to the fourth or fouth west, Ptolemy's to the east. 'And 3'.

<sup>290</sup> Prolemy, lib. i. c. g. Azánia the coast.

failed with the Bull in the middle <sup>31</sup> of the heavens, and the Pleiades on the middle <sup>32</sup> of the main yard, in the latter that they failed to the fouth, and the flar Ganobus, which is there called the Horfe. I can find no mention of this Diodórus Samius in any other author; but whoever he is, if the date of his work could be fixed, it would go farther to afcertain the progress of the aucients, the navigation of Hippalus, and the account of the Periplüs, than any diffcovery I have been able to make. I have reafoned only from the materials before me; and if future inquiry should develope Diodórus, it is not without great anxiety that I must abide the iffue of the diffcovery.

Another circumstance highly worthy of attention is the argument of Ptolemy. The invalidate the estimate of a day's course. The usual estimate he states at five hundred stadia for a day, and a thou-fand for a day and night; he then mentions, from Marinus, a Diógenes who was one of the traders to India, and who, upon his return, in his second voyage, after he had made Arômata. We caught by the north east wind, and carried down the coast for five and twenty days, till he reached the lakes from whence the Nile issues.

<sup>201</sup> Мюненфота. . .

291 Kara μίστο τον κιράιου.

. 493 See lib. i. c. 9.

\*\*\* It may be proper to examine the monfoon upon this queition.

"99 That there is a great lake inland from the coast of Ajan, is a report of which we find traces in shmoth all the accounts ancient or modern; but where to fix it, or what it is, feeme by no means afcreamed, D'Anville notices fuch a lake on his map of Africa, and conjectures that it may be the fource, of the Ohis, which iffures at Ampaça and Patch Polomy here makes it the origin of the Nie, and places it in 10° fourth, and the Nabina and places it in 10° fourth, and the Nabina geographer carries to 10°, which is the latitude of the Lake Maravi, while the fourte that Bruce videted, is 12° north. Two and twenty degrees is facely too great a difference to inposite between the head of the White and the Blue River: neither is it probable that any fource of the Nile fould be fourth of the mountains of Abylinia, which Renaf one viget are part of the great Balt that different processing the state of the great of the great Balt that different processing the state of the great Balt that different processing the state of the great Balt that different processing the state of the great Balt that different processing the state of the great Balt that different processing the state of the great Balt that different processing the state of the great processing the state of the

<sup>\*</sup> The lakes in Ptolemy are from 7° to 10° fouth.
The fources of the Nile are in 13° fouth.

that is, nearly to Rhaptum 396; he then adds, that Marinus mentions one Theophilus who frequented the coast of Azánia, and who was carried by a fouth west wind from Rhapta to Arômata in twenty days. From these facts 297 Ptolemy argues, that as five and twenty days are attributed to the shorter course, and twenty to the longer. there can be no stated measure of a day's course to be depended on. I must own that to my conception they prove exactly the contrary; for though a day's course is certainly indefinite, where winds are variable, we now know that both these voyagers must have beencarried by the two opposite monfoons, and that Diogenes loft his paffage by not arriving at Gardefan early enough to get into the Red Sea : confequently he was hurried down to the fouth, and could not get into port till he was somewhere about Patè or Melinda. The difference itself of twenty-five and twenty days is not so great as to insist upon with feverity, and we must likewife add, that both voyages feem in confequence of furprize, and not the ordinary course of the navigation. Mariners do not now, and certainly could not formerly.

vides Africa, this indeed is not impossible, as the Indus and the Gauges both cut the great belt of Asia; but it is highly improbable, on account of the valt space between. Neither does it make Ptolemy confiftent : for though d'Anville ftill preserves Ptolemy's sources of the White River in his map, and Rennell does not diffeard them. The lakes of those sources are placed in 6° north by d'Anville, and in a very different longitude from Ptolemy's, while this lake of Ptolemy's is in 10° fouth. And here d'Anville has a lake alfo, but of which he fpeaks with great uncertainty. See Ptol. lib. i. c. q. But Ptolemy, in the 17th chapter, exprefsly flates that this lake is not near the hands of Egyptian Greeks.

coast but far inland. D'Anville's earliest notice of this lake, called Maravi, is in a man which he composed for Le Grande's translation of Lobo, in 1728.

296 Ptolemy fays, the Promontory of Rhapta was a little to the fouth west.

197 The facts are fo curious that I have great pleafure in flating them to the reader. and proposing them to the confideration of any English officer who may be accidentally brought on this coast. I must notice also that Diogenes and Theophilus are both Greek names ; a leading proof that even under the Romans, this trade was chiefly in the

reckon by an individual, but a general run; and when they are in the fween of the trade winds or the monfoons, though the force of the wind is not perfectly or constantly equal, it is so generally subject to calculation, as to vary but a few days in very extensive passages, This fort of estimate all seamen have in such voyages, and on such coasts as they frequent. And those who know how nearly the computation of all feamen approaches to the truth, will certainly allow more precision in the accounts of Marinus and the Periplûs before us, than Ptolemy is willing to concede. On this point we have a most remarkable coincidence to notice; for as Marinus states. the paffage of Diógenes from Arômata \*58 to the lakes at five and twenty days, the Periplûs affigns exactly the fame number from Opônè 309 to Rhaptum upon a diffance as nearly equal as poffible. The conclusion from this is incontrovertible; for it has already been thewn, that the courfes of the journal agree with the actual extent of the coast, and if the passage of Diógenes agrees with the day's courses, it is impossible to admit the scepticism of Ptolemy.

But, from his rejection of the estimate, we may proceed to his contradiction of the facts; for in his feventeenth chapter he controverts the whole account of Marinus 300, and as far as we can collect, his account was in union with the Periplus. The reasons for admitting the flatement of the Periplus are contained in the whole of the preceding pages. The reason for doubting Ptolemy is, that his account is not confiftent with his own detail of the

coaft.

<sup>298</sup> From Gardefan to Melinda or Pate. 299 From d'Affai to Quilon.

Mariaus might be the true author of the Peri- ply very nearly to the Periplus. But I am

plus, from finding his great agreement with it, and that the objections which Ptolemy brings 300 I had once conceived an opinion that against Marinus in the seventeenth chapter ap-

coast 124, nor conforant to the knowledge of it, which we have at prefent. He fets out with faving, that the merchants who trade between Arabia Felix and Aròmata, Azánia, and Rhapta, give a different statement from that of Marinus. They mention that the course from Arômata to Rhapta is fouth west; but from Rhapta to Prasum fouth east. This indeed would hold good for a small bend of the coait, but upon the feven degrees which Ptolemy affigns to the interval is directly false; for the general inclination from Gardefan to the Cape of Good Hope is fouth west upon the whole; and this turn which he assumes to the fouth east, feems only to prepare it for the curve he gives it all round the Antarctic Ocean. He then adds. that the village Panon is next to Arômata, and that Opône is fix days from Panon. If there be not a corruption of the text here, or a great error in our construction of it, this is in direct opposition to his own table as well as the Periplus. For his table gives only five minutes difference between the two. He next mentions Zengisa, Mount Phalangis, and the bay called Apócopa, which it requires two courses of twenty-four hours to pass. Then the Little Coast of three fimilar courses, and the Great Coast of five; then two more to Effina, one to Serápion, and three more across a bay to Rhapta. Niki, he adds, lies at the commencement of this bay next to Serápion. And last of all he notices a river called Rhaptum, with a city of the fame name, the metropolis of Barbaria, with a vast bay which must be passed to reach Prasum, where the sea is very shoal "", and round Prafum is the country of the Anthropophagi. Now the

convinced this opinion cannot be defended, for Mariena was no navigator, but a geographer and Mariena knew or had heard of Pratum, which the author of the Periplis certainly had not.

meaning of this language, if I understand it right, is, that at Rhaptum is the last settlement of the Arabs, and that Prasum is in the country of the Negroes, for so I interpret Anthropophagi. This is not expressed indeed, but is so perfectly consistent with the Periplus that it can hardly be disputed.

The difference that there is between this detail of the coast and that of the Periplûs, will be best seen by consulting the table (p. 136.); but whatever it may be, it contributes more to establish that journal by its general concurrence, than it detracts from it by difagreement in particulars. It appears to me, whether from predilection to my author, I cannot fay, that Ptolemy had a journal before him but a worse. I see the correspondence between the two, but more confistence in the Periplûs. I fee likewise more circumstances in this, more characters, and more intelligence, which perfuades me that it is written by one who performed the voyage, while Ptolemy relates after another. The reasoning, therefore, which he builds on this, to correct Marinus, appears of less weight; for we find all the diffances of the Periplûs correspondent to the actual nature of the coast at present; and whatever failure there may be in the application of it to particulars, the leading characters, fuch as the Straits of Bab-el-Mandeb, Ras-Feel, Gardefan, Daffui, Cape Baxas, the Coaft of Seven Rivers, and the Zanguebar Islands are fo clear and manifest, that the outline may be confidered as perfect, whatever error there may be in the filling up. To my own mind the evidence is complete; but every author who compiles from the labours of others, without visiting the countries of which he treats, must subject the fpeculations of the closet to the determination of navigators on the spot. To this law I submit my inquiries most chearfully, soliciting information

information without fear of the refult, and ready to ftand corrected by every intelligent officer who will make this work the companion of his voyage. One farther observation is all that remains in this part of my discussion, which is, the peculiarity that Prasum, signifying Green, should point out a green cape for the termination of ancient knowledge on the eastern fide of the vast continent of Africa. while another Green Cape (Cape Verde) should have been for many years the boundary of modern navigation on the western side. If I am not miftaken. Cape Verde has its name from its verdant appearance when first feen by the Portuguese; otherwise it might have been thought that those who first reached it had annihilated the great triangle like Juba and Pliny, and thought they had arrived at the Green Cape 303 of the ancients. This will not appear an idle observation to those who are conversant with the ancient geographers. and who know that they found, as already noticed, a western Horn and Cernè on both fides the continent, and a Thulè from the Orkneys to the Pole. But there is another view in mentioning it, which is, that some future navigator, with this clue to direct him, may, when he is going up the Mofambique passage, still find some characteristick greenness, either in the colour of the sea, or on the continent, which may enable him to point out the Prasum of the ancients. This is a point I cannot afcertain to my own fatisfaction. but it cannot be farther fouth than Corrientes, nor farther north than Ouiloa or the Zanguebar Islands. English ships generally leave the coast before they are so far north, but accident may carry some

<sup>302</sup> Medow fignifies a Leck, but it is also may possibly allude to such weeds found in used for a sea weed of the same colour, and this sea.

curious observer to the spot, which he may recognize, by knowing previously where he is to search, and what he is to search for.

## DISCOVERIES of the Porruguese.

XXVI. WITH veffels of the most perfect construction to encounter all the dangers of the fea, with inftruments of all kinds to afcertain the place of the veffel, with officers equal to every fervice, not only from their intrepidity but their skill, a voyage performed in three years from Europe to the Red Sea, round fuch a continent as Africa, for the first time, would have added no finall degree of luftre even to the reputation of a Cook: and yet fuch a voyage is imputed to the Phenicians in an age when they had neither charts or inftruments, when they had no veffels fit for a navigation beyond the Red Sea, or the limit of the monfoons. But to judge of the difficulty of fuch an undertaking for the first time, we cannot form our estimate upon better grounds, than by a brief recapitulation of the obstacles surmounted by the Portuguese, and by observing that the attainment of the fame object cost them almost a century, which the Phenicians are faid to have reached in the short space of three vears.

Of the progress of this discovery it will be necessary to trace little more than the dates \*\*\*. Prince Henry, fifth son of John the first, king of Portugal, took up his residence at Sagrez, near Cape Saint Vincent, about the year 1406. The history of his discoveries is familiar to every one, but, like the history of all others who are the

<sup>304</sup> See Faria and Oforius in init. Barbofa and Alvarez, in Ramufio, Bruce, Mickle's Luffad, and Caffaneda.

favourites of mankind, it is not fufficient to give him his due merit, which is fuperlative, but it must be enhanced by hyperbole. It is not true that in his day there was no geography but in the poets\*\*, that he is the inventor of the astrolabe \*\*e and the compass, or the first that put these instruments into the hands of mariners: but he was bred a mathematician, and he procured the best charts and best instruments the age afforded. He improved upon or corrected every one of them, and he taught\*\* the application of them in the best manner to the commanders employed in his service.

This great man, with one object always in his mind, diltracted by no other cares of the world, never married, never incontinent, was determined, by his regard to religion, to fubvert the power of the Mahometans, and by the love of his country to acquire for her that trade which had enriched Venice and the maritime states of Italy. These were his views, and this was his merit. It was not accident but system that carried the sleets of Portugal to the East Indies, and Columbus to the West. When Heirry first commenced his operations, Cape Nun, in latitude 28' 40' 0", was the limit of European knowledge on the coast of Africa. This Cape is just beyond the boundary of Morocco, and the Portuguese knowledge of it was derived from their wars with the Moors of Barbary. Com-

ses Brace and Mickle.

<sup>366</sup> See on the Aftrolabe, note infra-307 I cannot help mentioning a circumstance

which contributes much to our national honour. Pictro della Valle who failed both in English and Portugues finjs in the Earl Indica about 1620, observes that the Portugues masters and pilots made a mystery of their knowledge, whereas on board the Eng-

hith fairs all the youths on board were furmoned to take the obfervation at mour; their books and calculations were then like wife corrected. Purchafe mentions this in form infruedtions given by the merchants to the commanders they employed; and here, perhaps, we may trace a caule why the fenice has always been encreafing among the Englith, and declining among the Portugents.

mencing the line of his discovery from hence, in 1418 two of his officers reached Cape Boyador, in latitude 26° 30' o". The fame effort reftored to geography the Canaria of Pliny, or gave that name to the iflands which retain it ftill, and lie between Nun and Boyador, Boyador, however, was not doubled till 1434. It was, favs Faria, a labour of Hercules; and it was not till 1442 that the discovery was advanced to Rio-del-Ouro, under the tropick of Cancer. This name points to the acquisition of gold; and history mentions that the dust of that precious metal was here first offered as a ranfor formsome of the natives who had been taken prisoners. Upon the return of these vessels to Portugal 108 the fight of gold produced an emotion much more effectual than all the exhortations of Prince Henry had been able to excite; a company was immediately formed at Lagos, and the progress of discovery was ensured whether Henry had lived or died. This is the primary date to which we may refer that turn for adventure which forung up in Europe. which pervaded all the ardent foirits in every country for the two fucceeding centuries; and which never ceased till it had united the four quarters of the globe in commercial intercourse. Henry had stood alone for almost forty years, and had he fallen before these few ounces of gold reached his country, the spirit of discovery might have perished with him, and his defigns might have been condemned as the dreams of a visionary; but he lived till 1463, and in the years 1448 and 1440 had the fatisfaction to fee his discoveries extended

<sup>&</sup>lt;sup>108</sup> Bruce obferves, this must have come were employed in the future difcoveries, till from the country father fouth, vol. ii. p. the time of Bartholomew Disa; the fifti cir. <sup>299</sup> It will appear hereafter that a John commanigator of Africa, in 1487. Thus was Disa was one of the first partners of this the connection formed between the diffcover Company, and from him feveral of the family of Model-Quan and the Cape of Good Hope.

to Cape Verde, (in latitude 14° 45' 0",) to the Cape Verde islands and the Acores. This cape was likewife doubled, and fome progrefs is supposed to have been made as far fouth as to the equator, but Cape Verde may be confidered as the limit of Henry's discoveries. He is defervedly "celebrated by all writers as the reviver of navigation, and the great founder of that commerce which has raifed the maritime power of Europe above all the other nations in the world.

After the death of Henry his defigns languished during the reign of Alonzo, but the spirit of adventure was not suppressed. In 1471 the discoveries extended to Cape Gonzales beyond the equator, and terminated with this reign at Cape Saint Catherine, in latitude 2° 30' 0" fouth ". John the fecond fucceeded to the throne in 1481; and revived the pursuits of Henry with all the ardour of their author. In 1484 his fleets reached Congo and penetrated to 22° fouth. It was in Benin that the first account of Abyssinia was received, and nearly about the fame time John fent out Bartholomew Diaz with three thips, who first circumnavigated the extreme point of Africa, and difpatched Covilham in fearch of India by Egypt and the Red Sea. The date of Diaz's expedition is fixed in 1486, nearly eighty years after the commencement of Henry's plan, and the expedition of Covilham is affigned to 1487 116. I have recapitulated these facts and dates not for the purpose of repeating a history known to every one. but that the reader may compare the difficulty of profecuting this dif-

See his character, p. 18. 311 Faria, vol. i. p. 20, 21.

Bruce, vol. ii. p. 108. supposes Diaz to have know of Diaz's success.

<sup>310</sup> Mickle xxxix. from Farin; vol. i. p. 21. failed in confequence of Covilham's intelligence, which is directly contrary to the tellimony of Faria, Castaneda, Alvarez, and Mickle. 312 Thefe dates are of confequence; because When Covilham wrote he certainly did not

covery by the Portuguele, with the facility attributed to the attempt of the Phenicians, in their three years' navigation.

But Covilham 313 is a name of fuch importance, his history fo extraordinary, and his account fo connected with the Periplûs, that to pass him in filence would be an unpardonable omiffion. John II. in the beginning of his reign had fent two friars, one of the order of St. Francis, and the other John of Lisbon, with a third who was a layman, into the East 114, in order to discover India by land. These travellers went, for want of the Arabick language, no farther than Terufalem. In the year 1486 or 1487 ", he therefore fent John Pedreio de Covilham and Alonfo de Payva on the fame fervice; and after them two Jews, Abraham of Beja and Joseph of Lamego, As nothing can shew the folicitude of the king more than these circumfrances, fo nothing can prove his penetration more than this choice of Covilham; he was a foldier, he had ferved in Africa, had been an ambaffador to Morocco, and had acquired the Arabick language to perfection. In obedience to his fovereign he departed from Lifbon 256, and took the route of Barcelona and Naples, and thence by Rhodes and Alexandria to Cairo. He there joined a party of Mograbin "7 Mahometans, and went in their company to Tor. Suakem, and Aden. At Aden he embarked for Cananor on the coast of Malabar, and visited Ormuz, Goa, and Calicut. He fare

<sup>312</sup> Called de Covilham from the name of Alvarez fays he confessed him in 1521, thirtyhis birth place. Oforius always writes John three years after he had entered the country, Petreig. See vol. i. p. 147. 214 Caftaneda, p. 2.

<sup>215</sup> I collect that Covilham entered Abyfania in 1488 from Alvarez in Ramufio; for

<sup>316</sup> Alvarez in Ramuño, vol. i. p. 191. 237. et feq.

<sup>317</sup> Moors of Barbary, Western Arabs.

the pepper and ginger "", he heard of cloves and cinnamon. After this he returned to the coaft of Aftica, touched at Zeila, and went down the coaft as low as Sofala, the laft refidence of the Arabs, and the limit of their knowledge in that age, as it had been in the age of the Periplus. The Arabs of Covilham's age knew indeed that the fea was navigable to the fund weft, as their earlier countrymen did when the author of the Periplus was in the country, but they knew not where it ended. With this intelligence, and what he could collect of the Island of the Moon, or Madagascar, he returned by Zeila, Aden, and Tor to Cairo. At Cairo he met the two Jews, Abraham of Beja and Joseph of Lamego, by whom he sent an account of the intelligence had collected to the king, and in the letter which contained it, he added,

"That the ships which failed down the coast of Guinea might be fure of reaching the termination of the continent, by perfitting in a course to the south; and that when they should arrive in the Fastern Ocean, their best direction must be to inquire for Sosila.

" and the Island of the Moon."

It is this letter above all other information which with equal juftice and with equal honour affigns the theoretical difcovery to Covilham as the practical to Diaz and Gama; for Diaz returned without hearing any thing of India 100, though he had paffed the cape; and Gama did not fail till after the intelligence of Covilham had ratified the difcovery of Diaz.

<sup>919</sup> What a testimony do these two words the designs of John ? Alvarez seems to write give of his veracity, and what a variety of what Covilhan distated. Alvarez, p. 237. connected circumstances do they suggest to these who know the country, the trade, and

Covilham was not to receive the reward of his fervices; one part of his commission he had not executed, which was, to visit Abysfinia; he returned, therefore, from Cairo to Ormuz, and from Ormuz once more to Aden, where he waited till he found the means of introduction into Abysfinia. Here he was received with kindness, but hence he was never to return; for in Abyffinia he was found by Alvarez 320 the almoner to the embaffy of John de Lima, in 1525, who observes that the king had given him a wife and lands, and that he was beloved by the people as much as by the fovereign: but that his return was for ever precluded. He folicited John de Lima, and John interceded with the king in vain. I dwell with a melancholy pleasure on the history of this man, (whom Alvarez describes still as a brave soldier and a devout Christian.) when I reflect upon what must have been his fentiments on hearing the fuccels of his countrymen in confequence of the discovery to which he fo effentially contributed. They were fovereigns of the ocean from the Cape of Good Hope to the Straits of Malacca: be was still a prisoner in a country of Barbarians.

There is a circumftance attached to the hiftory of Covilham of great geographical importance, which is the map or chart committed to his charge by Emanuel, at that time prince " and afterwards king of Portugal, which was copied and composed by the licentiate Calzadilia, afterwards bishop of Visco, a doctor Rodrigo, and a Jew named Moses, with great secreey in the house of Peter

<sup>220</sup> See the work of Alvarez in Ramusio, 224 Duca. See Castaneda, p. 1, 2, 3. vol. i. Alvarez in Ramusio, vol. i. p. 236.

of Alcazova. This map "" was put into Covilham's hands with orders to make his way, if possible, into Abyffinia, and difcover whether there was a passage round the extremity of Africa, which the framers " of the map afferted to be practicable, on the authority of some obscure information which they had collected.

Bruce afferts \*\*\* that Covilham fent home from Cairo a map which he had received from a Moor in India, in which the Cape, and all the cities round the coaft were exactly represented. But whence Bruce draws this account I cannot discover; and if there was fuch a map among the Moors it must be a fiction, for none of them had ever passed Corrientes by sea: and cities there are none.\*\* for

323 I imagine it is the composition of this map which has induced Mickle to fay, that the Aftrolabe was invented by two Jews, Rodrigo and Joseph at Lifbon; and I have little doubt that the usage of the word Aftrolabe deceived him, or the author from whom he copied. The primary meaning of Aftrolabe was an armillary fphere. Ptolemy reduced this to a planifphere; and yet the name of Aftrolabe continued till it became applied to maps like his in flereographick projection. The Sea Aftrolabe is a different inftrument, for taking the altitude of the fun, ftars, &c. It is a ring with a moveable index. See Chambers's Dictionary, in voce. This last fort of Aftrolabe is deferibed in Chaucer's treatife on that fubiect, which bears date 1401; fo that if Mickle means this inftrument, it could be no invention of the Jewish doctor's. See Chaucer, Urry's edition, p 440. and that he does mean it. I refer to his own words, Lufisd, p. 193. Note P. where he quotes di Barros, Dec. i. lib. iv. c. 2. I cannot refer to di Barros : but in Alvarez (Ra-

mufic, vol. i. p. 256.) I find the circumlance of this map by Challilla, with the name of of this map by Challilla, with the name of of the map of the challing of the leave whom I furpoole to be the Josephon Middels. Purchas, vol. ii. b. ii. p. 8. fipals with much nare propriety is fary the Altrobbe was applied formerly only to afronomical purpofes, but was accommodated to the uf of mainters by Martin Bohemus, a Cabolar of Regionomatanua, at the fugerithm of both king of Portuger.

313 Et dipaffare un di loro nell' Ethiopia a vedere il pacfe del Prete Janni et se ne i suoi mari susse notitia alcuna che si possie passare ne mari, de ponente, perche li detti Dottori dicevano haverne irousta non so che memoria.

374 Vol. ii. p. 108. Caftuneda, p. 3. fays that Covilham fet down the names of places in the chart he carried with him, albeit ill written.

435 " Howbeit there appeared unto them no "townes within this kard, by reafon that along "those coasts there are none feituated." Cafaneda, p. 8. "but forther within there be "townes and villages." almost twenty degrees from Corrientes to the Cape, or from the Cape for twenty degrees to the northward on the western coast.

That fictitious maps of this fort might exist both in the Indies and Europe, among Mahometans 324 and Christians, is highly probable, for it was a prevailing notion in all ages, that Africa was circumnavigable. And it has been repeatedly noticed in this work. that on both coasts, when the voyagers reached the limit of difcovery, the report of the place was always in favour of a passage. We may allow even more than this, and fay, that the natives had gone 227 by land much farther to the fouth than the navigators by fea; and that their accounts were almost unanimous in maintaining the fame affertion. The strongest evidence I have found of this is that which the Portuguese afterwards report of Benomotapa; a great nation when they arrived in Africa, and the remnant of a much greater, which had poffesfed cities of great extent and regular buildings; and from which it was faid there were public roads running far to the west and quite down to the Cape 318. We are not to believe these reports, perhaps, in their full extent; but the ruins of great buildings feem authenticated; and the existence of gold and gold mines is univerfally afferted. Here is Bruce's Ophir 329,

321 The communication between the Oriental and Atlantick Ocean feems to be intimated in Abulfeda, (p. 50. Gagnier's translation, MS. in the Bodleian,) but it is so obscure that I am not certain that I comprehend it even in the translation.

127 This feems to appear from Al Edriff, p. 28. et feq. where he mentions Sofala, and feveral other places beyond it with great obfourity.

p. 288. et feq. Barbofa mentions fuch a road;

that it went far fouth may be very true; but

about our designer of the property of the prop

the tradition of the queen of Sheba 310, the coast of Sofala, and the great river of Cuama.

Such a nation as this, while in a flourishing state, we can suppose to have extended its communications far to the west and to the fouth, with roads both ways as far as their caravans could find purchasers to invite them. With this nation the Mahometans of Sofala and Mosambique must of necessity be connected; and if they had a: map or chart of the cape, from the information of this nation it must have been collected. It is the mention of cities in this man which alone makes us suspect that it was the product of their own imagination. Maps of this fort are supposed to have been framed as readily in Europe as in Afia. And one of these Mickle fpeaks of in the introduction to his translation of the Lufiad in the following terms:

- " Antony Galvan relates 351, that Francisco de Sousa Tayanes told " him, that Don Ferdinand told him, that in 1526 he found in the " monastery of Acobaça a chart of Africa an hundred and twenty " years old, which was faid to be copied from one at Venice, which
- " also was believed to have been copied from one of Marco Polo. " which, according to Ramusio, marked the Cape of Good

" Hope,"

Mickle confiders this as a mere report calculated to deprive prince Henry and the kings of Portugal of the honour of the discovery: and its date of 1526, almost thirty years after the discovery had

330 This tradition might well extend to this had conqueits in Arabia, and connections with

124 Introd. p. xxxiv.

country before the arrival of the Mahometans Egypt, and in the interior of Africa to the on the coaft, from the early Arabs, and much west and south. more strongly from the Abyssinians, who in their better days do certainly appear to have

actually taken place, affords full ground for the fuspicion. But let us fuppose that the depicted travels of Marco Polo, which adorned one of the churches at Venice 325, actually contained the Cape of Good Hope, or rather the extreme point of Africa, it proves nothing. It shews only that the prevailing notion of the circumnavigation prevailed at Venice, as it had done many centuries before in Greece and Rome, and that it was inferted into this chart from the imagination of the draftsman.

Marco Polo 321 himfelf was too wife and too faithful a traveller to . affert this. We have his work; and we find his language perfectly in harmony with that of Scylax and the Periplûs. " Beyond the " iflands of Magastar and Zanzibar," fays he, "there is no farther " navigation fouthward 354, because the sea runs there with great " velocity to the fouth, fo that it would be impossible for any " vessel to return." It must be here noticed, that as he writes Magastar and Madastar for Madagascar, so under the name of Zanzibar he comprehends the main coast of Africa, which still takes the fame name, and carries it to the extent of two thousand miles. Whatever error there may be in this, his mention of the current

rano pear Venice. Ram, vol. ii. Dichiaratione,

312 In the church of Saint Michael de Mu- terfere with the glory of the discovery, and might give information of the countries in the

<sup>333</sup> There was a Portuguele version of Marco Polo published in Portugal in 1502, by a gentleman of the court, attendant on Eleonora, queen of Fmanuel, who likewife published the account of Nicolas des Contes or Conti, and of Hierome de Saint Etienne. This publication, in 1502, makes it highly probable that Marco Polo's work was known in Portugal previous to the voyage of Diaz, and was now published when it could not in-

eatt. 33+ It is to be observed that the reading of this passage is very different in Ramusio from that of Bergeron. But both agree in flating the impetuofity of the current to the fouth. I have followed Ramufio, as I always do, in preference to other translators. See Ramudio, vol. ii. M. Polo, lib. iii. c. 35. Bergeron, cap. 39. See the account of this map, Ramufio, vol. ii. Dichiaratione, p. 17.

between Madagafcar and the continent is an illustrious truth, the more remarkable as M. Polo was never on this coast himfelf, but must have derived his knowledge of the fact from the Malays or Arabs, who were the only navigators of the Indian Ocean in his age. And the reason assigned for their not passing to the south, though they knew there were [lands or] islands in that quarter, is the very same which the Arabs of Sofala and Mosambique gave to the Portuguese at their arrival on the coast. The whole of this is consistent with the knowledge of the Greeks and Arabs, which terminated at Prasum; and in all ages the current of the Mosambique Channel appears to have been an insuperable barrier to all but the Phenicians of Herodotus.

Such is the account of Marco Polo himfelf, and let us next confider the celebrated map of his travels which was preferved at Venice, and which was probably one of the most efficient causes which led to the discoveries of the Portuguese. Ramusio has preserved the history of this, and as his book is not in every body's hands, the reader will perhaps be gratified by the infertion of his account.

In the church of St. Michael di Murano near Venice, there was a case <sup>118</sup> or cabinet near the choir, which contained this map that attracted the particular notice of all travellers who came to Venice. The map was composed by a lay-brother <sup>128</sup> of the convent, from another map or chart which had been brought home by Marco Polo and his father, on their return from Tartary <sup>117</sup>. The original had been dissigned, and brought into differente by the insertion of a variety of things too modern for the age, and ridiculous in their

313 Armara, Armoire.	386 Converso.	337 Cataio.
D D		appearance :

appearance 218; ftill it was evident when the work of M. Polo came to be read again and confidered, that this map and chart was composed by him or under his direction. The artist therefore who undertook to copy and reform it, leaving out the abfurdities, and adding the longitude and latitude, which the original had wanted, framed the map which is now preferved in the church of St. Michael, and which is vifited as the composition of Marco Polo himself. In this map a variety of curious particulars are observed, unknown before, or at least to the ancients; and more especially that towards the Antarctick circle, where Ptolemy had placed his unknown fouthern \*\*\* continent without fea; there appeared in this map, made fo many years ago. the fea furrounding the extremity of Africa, fo that a passage from the Indian Ocean into the Atlantic feems to have been known in the time of Marco Polo, though there was no name given to that promontory which the Portuguese afterwards called the Cape of Good Hope.

Three questions arise out of this account, 1st, Whether the delineation of the Cape in the copy is a proof that it existed in the original. 2dly, Whether this copy is the original from which the bishop of Viseo's map or chart was taken, which was delivered to Covilham; and 3dly, Whether the bishop of Viseo's map is that which is mentioned by Bruce.

First. It certainly does feem probable that the report concerning the termination of Africa in a cape was as current in Asia and the Indies as in Europe. That either the Chinese or the Malays did

<sup>334</sup> As the old maps contain monflers both no land and fea, fo it is highly probable the lanck of M. Polo, lib. iii. e. 25, and Griffing, and the land of the la

navigate the ocean as far as Madagafcar, and the coast of Zanguebar is evident: for Marco Polo was not there himfelf, and could have his account only from them or from Arabs 140, whom he might meet with on the coast of Malabar from Arabia or Africa. It should feem however rather from the former than the latter, for as Marco Polo is the first author who introduced the name of Madagascar 141 into Europe, fo is it probable that this title is not given to it by the natives, but by the Chinese, Malays, or Hindoos. In confirmation of this we find in Cook's comparative vocabulary, drawn up by Mr. Marfden, that the Malay numerals, and fome other radical words, are still current in that island. Now if the Malays traded to this island, or the coast of Zanguebar, they must have had intercourse with the Arabs fettled there; and that the Arabs did believe the poffibility of a circumnavigation has been proved already, both from their observation of the interior, and from such intelligence as they might derive from Benomotapa. From some of these sources there can be little doubt that Marco Polo, if his map or chart contained the continent of Africa, might affign a termination to the coast, and convert that into fea which Ptolemy and his copiers had affigned to their fouthern continent.

But there is a stronger argument for believing that this Africau Cape was in the original of M. Polo, and not introduced by the artift who copied it, which is, that M. Polo himself speaks of the coast of Zanzibar, not as the continent, but as an island two thou-

before the Portuguese arrived at Calicut, according to the Portuguese accounts, and we know from Pliny, that they were so settled or

<sup>340</sup> The Arabs had been in India 600 years foread on the coast of Malabar and Cevion. that their fuperflitions had been adopted by the natives previous to his age. 243 He writes Madatlar or Magastar.

fand miles in circumference 200; whatever error there may be in this, it is felf-evident, that if he made it an island, he must give it a termination on the south, as well as on the other three quarters; and if he delineated this, that southern boundary must be the very limit of Africa, which Ramusio says the copy contained. It is for this reason most especially, that we ought to admit the fact; and if the sact is admitted, to M. Polo must be affigned the honour of first giving this intelligence to Europe, and of opening the way for the discoveries of the Portuguese.

Secondly. What the map was which was composed for the use of Covilham by Calzadilia, afterwards bishop of Viseo, by Dr. Rodrigo and the Jew Mose, cannot be determined without better materials from Portugal than are in my possessing in the series great reason to believe, that the principal source of that work was the map of Marco Polo, because the first printed edition of his work was in Portuguese, dated Lisbon 1502, by a gentleman in the court of Eleonora, wife of Emanuel; and this being only four years after the voyage of Gama, when every spirit was roused by the discovery, it feems highly probable that the intelligence contained in this book was in possessing the court of Portugal previous to the expedition, and had been made use of by the kings of that country, for the purpose of instructing and encouraging those who were employed upon that fervice.

It is to be observed, that the original work of Marco Polo was composed in Italian by a Genoese, who took his instructions from the mouth of the author, when a prisoner at Genoa, about the

year 1300. From this Italian copy 348 a Latin translation was made at Bologna, and published in MS. two copies of which were preserved, one in the Library of the Canons of Latran at Padua: the other at Colonia 344 in Brandenburg, in the Library of the Elector. Both copies are supposed to be nearly the same, but differ from another which was made at Bâsle. These are all manuscripts, but from one of these it may well be imagined that a copy had been procured by the Portuguese, during almost the whole century that their mind was set upon this object, from the first attempt of prince Henry in 1406. to the vovage of Gama in 1497. The edition of this work from the prefs, fo early as 1502, in Portugal feems to confirm this, and as the circumnavigation was completed, it could now no longer be concealed, nor could any future adventurer detract from the honour of the discovery. These circumstances, it is true, amount to no proof, but afford ample ground for believing that the map delivered to Covilham was framed from this fource of information. Whether the original map and chart of M. Polo, in the church of St. Michael di Murano at Venice, or the copy which replaced it had been copied by the Portuguese, I have no means to determine; but as it feems to have been open for the inspection of all visitors, and as the ardour of the Portuguese was pointed to rival the commerce of Venice, from their first outset to the attainment of their object; it may reasonably be concluded, that if they had no Portuguese 445 in that

<sup>343</sup> The whole of this is from the preface of Andre Muller Grieffenhag in Bergeron. 344 What Colonia? I wish the German Latinits would give us the modern names of

cities.

Henry's brother brought a map from Venice, in which the cape was marked; but he gives no authority. If I had known where to find this fact, I could have determined the question. I do not doubt it, but I with both 343 Bruce, vol. ii. p. 96. fays Don Pedro Bruce and many other authors would prefer

that city to collect intelligence, they employed Jews for that purpofe; for Jews they feem ever to have perfected and trufted at the fame time; a Jew was employed in forming Covilham's map, and two Jews were fent after him into Egypt.

Thirdly. What map it was that Covilham fent home, which he had procured from a Moor in India, cannot be determined; neither has Bruce, who mentions this circumftance, condescended to give us . his authority. I fuspend, therefore, all judgment upon this till I know the foundation on which it flands; it feems rational that the Mahomedans should have charts of their navigation see, as well as the Europeans: but as no Mahomedan or Arab had paffed the cape, the delineation of it must have stood upon the same fort of intelligence as Marco Polo had acquired in the east, or be inserted from imagination and the prevailing belief of the fact. Whenever I can discover the authority of Bruce it will deferve confideration, till then I shall think that if Covilham filled up the map he had received, or corrected it, or added to it fuch information as he could collect, it is a more probable account than the report of this Moorish map, which contained cities that never existed. Such a corrected man of Covilham's we read of in Castaneda, who seems to have seen it, as he says it was ill-written and disfigured; this I take to be the map to which Bruce alludes

the information of their readers by murginal had, as late as 14.00, may be feen by the may reference to the analy of a deen page. It of the world I have inferred in the appendic does feen highly credible that the may of M. from AI Edvilli. The Great Cape of Africa Pollo was brought to Pertugal by this Dan is not intak, though policier to M. Pollo, but the author is prior to the Venetian, though J M. What fort of others or maps the Arabs the copy of his work is later.

Voyages of BARTHOLOMEW DIAZ and VASCO DE GAMA.

XXVII. FROM the year 1410 347 to 1486 the Portuguese had been engaged in advancing their discoveries to the fouth; some progress had been made in every reign; but the honour of doubling the extreme cape of Africa was referred for John the fecond. In 148 1486 Bartholomew Diaz failed from Portugal with three ships; he is called an officer of the king's ftorehouse at Lisbon, but is manifestly of a family 249 which had long been employed in these voyages of discovery; and had probably been gratified with a place of trust for merits in the fervice. He advanced to 24° fouth, one hundred and twenty leagues beyond the track of former navigators, and then ffretching holdly out to fea, never touched upon the coast again till he was actually forty leagues to the eaftward of the cape, which he had paffed without feeing it in his paffage.

This however was not the termination of his discovery, for he proceeded to the river del Infante, upwards of fix degrees to the eastward of Agulhas 350, which is the most fouthern point of Africa, and near a degree beyond the Cape of Good Hope. The reason of his return is not quite evident; but he had parted" with one of his

given as the first date of prince Henry's defigns.

<sup>348</sup> See Castaneda, Faria, Mickle, Oforius, Bruce.

<sup>\$49</sup> We meet with Dinis Diaz and Vincent Disz in 1447, and John Diaz who was one of the first company erected at Lagos in 1444.

Faria, p. 9. 150 Cape Agulhas or Needle point. Thefe

<sup>347</sup> One thousand four hundred and fix is names still decorate our charts, and it is but justice to preferve the names and language of every discoverer. The French have had the vanity to displace several appellations of our late discoverera. But La Pevrouse was honester

than his countrymen. 351 He met this veffel on his return with

only three of the crew alive. One died for joy.

little fleet on his passage, and it may be presumed that the impossibility of collecting information from the natives, with the continuance of the coast to the eastward, which he might have expected to trend to the north, contributed to his determination. Five and twenty leagues short of this river he erected his cross on a rocky islot, which still bears the name of De la Cruz, in the bay of Algoa 352. This is a perpetual monument to his honour, and the Grand Cape which he faw on his return he flyled the Cabo Tormentofo, from the tremendous ftorms he had encountered on his passage. The different fentiments with which this discovery inspired his sovereign upon his return, reverfed the omen, and changed the Stormy Cape into the Cape of Good Hope, a name which has superfeded the pretentions of all occupants and all conquerors, and which it is hoped will preferve the glory of a generous monarch, and his hardy subjects, to the end of time.

Still, though the difcovery was made, it was not completed. India had been the object of the fovereign, and the nation, for almost a century; but India was neither found, or seen, or heard of, this was wanting to the fame of Diaz, and this was the cause that all the glory of the discovery attached to Gama. Gama was a man of family313, and Diaz failed under him, with an inferior command; he had not even the fatisfaction of attending his fuperior to the completion of his own discovery, but returned from St. Jago, and was again employed in a fecondary command under Cabral, in the

252 Algoa, in the English charts, properly of his family; he at least had armorial beargentleman. He bore a Gama, i. e. Dama,

Del Agoa, (Agua, water,) there are two ings, which, in that age, implied the rank of Del Agoas. 353 Faria. But Castaneda takes no notice

fleet that failed to India in 1500. In this expedition Brafil was discovered, and in the passage from thence to the Cape, four ships perished, one of which was that of Bartholomew Diaz with all on board \*54.

It would feem natural that the difcovery of Diaz should have been immediately profecuted to its completion; but it required a deliberation of ten years and another reign before a new expedition was undertaken; and great debates are mentioned as passing in the council of Portugal, whether the attempt itself were expedient, or any advantage could be derived from it to the nation at large.

In the mean time, however, the defign had never been relinquished, or the prior discoveries neglected; John II. had dispatched Covilham and his companions into the east, and the establishments on the coast of Guinea had been attended to with anxions folicitude. At length when Emanuel had determined upon profecuting the discovery of India, Gama was selected for the service, and was conducted to assume his command on board the fleet, under the most folemn aufpices of religion ".". The king, attended by all his court, accompanied the procession, and the great body of the people was attracted to the shore, who considered him and his followers rather as devoted to destruction, than as fent to the acquisition of renown.

<sup>354</sup> Mickle Lufiad, p. 201. Caffaneda, or the nation. By all that we can collect of P. 73. 355 Bruce, who is no enemy to religion, no Volney, has condemned the religious folemnity attending this embarkation, as discouraging; His faces is owing to this featiment. but he feems neither to have confidered the age

the execution of this voyage, Gama feems to have devoted himfelf to death, if he fhould not fuecced, from a fenfe of religion and layelv.

The fleet confished of three small ships and a victualler, manned with no more than one hundred and fixty souls; the principal officers were,

Vafco de Gama.

Paul de Gama, his brother.

Bartholomew Diaz, who was to accompany them only to a certain latitude.

Diego Diaz, purfer, brother of Bartholomew.

Nicolas Coello.

Pedro Alanquer, who had been pilot to Diaz. Gonzalo Gomez.

They failed from Lifbon on the 18th of July 1497, and after parting with Diaz at St. Jago, reached the Bay of St. Helena in latitude 32° 35′ o″, on the 4th of November. They had on board feveral who fjoke the Arabick language, and others who had acquired the Negro tongue by former voyages to the Gold Coaft, Benin, and Congo. In the Bay of St. Helena they found the natives which we now call Hottentots, as we difcover by the mention of a peculiarity in their utterance, which the journal calls fighing 11st, and which Vaillant defcribes by the term clappement, a guttural cluck, the characteriflick of their language. None of the Negro interpreters underflood this dialect.

A quarrel arofe between the voyagers, and these harmless and timid natives, from the suspicion of treachery, natural to those who wisht barbarous nations for the first time; and in the skirmish Gama himself was wounded in the foot. This accident hastened their deperture. They left the Bay on the 16th of November; Alanquer declaring that the cape could not be much farther than thirty leagues diffant, though he could not deferibe it, as he had peffod it without feeing "it, under the command of Diaz. For the four following days it was a continued tempeft at fouth fouth work, during which Oforius "i introduces the account of Gama's confining his pilots in irons, and flanding to the helm himfelf. Caftaneda mentions nothing of this circumflance; his narrative indeed is brief and dry, but feems to be a copy of the journal "i". On the fourth day the danger was furmounted; they doubled the Cape on the 20th of November, and getting now the wind in their favour, came to an anchor in the Bay of St. Blas, fixty leagues beyond the Cape, upon the Sunday following. This Bay fill bears the name of St. Bras in our charts; and the natives found here were the fame as those of St. Helena.

At St. Blas the fleet flaid ten days and was supplied with oxen by the natives. They found also penguins and sea lions in great numbers. They discharged and burnt the victualler, and then proceeded on their voyage to the eastward. The rock de la Cruz, where Diaz had erected his pillar, was by estimation sixty-five leagues from St. Blas, and the river Del Infante siteen farther to the east. When Gama set fail the current was strong against him, but having the wind in his savour, which blew a storm from the 8th to the 13th, he pushed forward till he was fixty leagues from St. Blas, on the 16th of December. Here he made the coast 110.

<sup>757</sup> I follow the Journal of Castaneda; he first person, without appearing conscious of the change.

<sup>239</sup> Vol. i. p. 48.

250 Somewhere about Cape Arrecife or
259 It often glides from the third into the Foul Cape.

had a good appearance, with herds of eatile on the shore. He passed within fight of de la Couz, and wished to have come to au auchor at the river Del Insante, but the wind being adverfe, he was obliged to stand out to sea, till on the 20th of December it came again to the west, and carried him through the currents which had opposed him all round the Cape. The good fortune which attended him in obtaining this wind, at the time when the current was most unsavourable, inspired gratitude in the heart of Gama to that Providence which proceeded him; he offered up his tribute of thankfegiving, and declared to his people, that he verily believed it was the will of God that India should be discovered when

From the 20th to the 25th he ran along a coast which he styled Terra de Natal, from the celebration of the Nativity on that day. It lies between latitude 32° 30′ 0″ and 30° south; and on the 6th of January 1498 he reached a river which he named De los Reyes, from the feast of the Epiphany; he did not anchor here, though in great want of water, but proceeded till the 11th, when he landed at a river called Cobio 20°, and which, from the treatment he received, he left afterwards marked with the appellation of Rio dos buonas Gentes, or the River of Good People.

The natives here were no longer Hottentots but Caffres, who even in that age bore the fame marks of fuperior civilization, which they preferve to the prefent hour. A circumflance more fortunate and more extraordinary was, that Martin Alonzo understood their language. This is a most remarkable occurence, as Alonzo could fearcely have been lower than Mina on the western coast, which is forty degrees from the Cape, and the breadth of the continent

from west to east cannot, in the latitude of 20' fourth, be less that eighteen or nineteen degrees more. What Negro nation or language do we know of fuch an extent? and yet wonderful as it is, there is no reason to doubt the fact. These people had mean houses, but well furnished, and were possessed of iron, copper, pewter, falts and ivery.

The fleet flaid here till the 15th, and obtained, wood, water, fowls, and oxen. Proceeding on that day to the northward, they continued their voyage till the 24th; in this run they paffed Cane Corrientes and the low coast of Sofala without anchoring, till they reached a river, which, from the circumstances that arose, they had afterwards reason to call the river of Good Signs 252 (de bons Sinas\.

It is a circumstance particularly noticed by the historians, that from St. Helena to this place no veftige of navigation, no fort of embarkation had been feen. But here, upon the morning after their arrival, they were vifited by the natives in boats, which had fails made of the Palm 364. This roused the attention of every one on board, and in the course of a few days two men of superior rank came on board, who had garments of cotton, filk, and fattin; this was the first infallible fign of the produce of India, and hope glowed in every heart. The language, however, of their visitors was unknown; they understood not the Negro dialect of Alonzo, nor the Arabick of Alvarez 365, but they intimated by figns that they had

<sup>263</sup> Farin, p. 18.

mentions fame here, but nothing of fails till 364 Faria. The expression is not clear, but they approached Mosambique.

intimates cloth made of fibres of the coco palm. It is worthy of notice that Callaneda blok very imperfectly, vol. i. p. 51.

<sup>. 5</sup> Oforius fays, one of them Ipoke Ara-

feen thips as large as the Portuguese, and seemed to mark the north as the quarter where they might be found.

Here then Gama determined to prepare for the completion of his discovery. The natives were quiet; they were not Mahomedans. The women received the feamen with complacency, and provisions were easy to be procured. These were all inducements for laying his veffels a-ground and careening them. He gave orders accordingly; and during a ftay of more than thirty days, which this fervice required, no dispute arose to disturb the harmony between the natives and their vifitors.

This river is the Zambezè, which is navigable for two hundred leagues up to Sucumba266, and penetrates into the interior of Benomotopa. It falls into the fea through a variety of mouths, between latitude 19° and 18° fouth, which are known in our modern charts as the rivers of Cuamo and Quilimane, from a fort of that name upon the northern branch 167. I find nothing in Castaneda or Faria to mark the extent of Gama's knowledge at this place, but as he had the corrected chart of Covilham on board, in which Sofala was marked as the limit of his progress; if that chart was furnished with the latitude, Gama must have known that he had now passed the barrier, and that the discovery was ascertained. The most southern branch of the Zambezè is two degrees to the north of Sofala. He must likewise know that the directions given by Covilham were to inquire for Sofala and the island of the Moon 268. And whether he

<sup>16</sup> Reffende, p. 80. Zambezè Gama anchored in. I suppose it to Paris, Le Grande. be the largest, which is that most to the north, 260 The Island of the Moon is an Arabick

în latitude 17° 50'0". P. Lobo calls Quili-367 I cannot afcertain which mouth of the mane the river of Good Signs, p. 202, ed.

as Reffende places the river of Good Signs in name and occurs in Al Edriffi.

understood the language of the natives or not, the name of Sofala 152 must have been pronounced to them in an intercourse of thirty days, and the quarter where it lay must have been obtained.

We are here approaching to a junction with the discoveries of the Arabians, the Egyptians, the Greeks, and Romans; and though possibly none but the Arabians " had been as low as Sofala by Sea. certain it is, if the authority of Ptolemy may be credited, that the Romans had penetrated inland to the fouthward of the equator, and terminated their refearches with a nation they ftyled Agifymba. Ptolemy 378 mentions two Roman officers, Septimius Flaccus and Julius Maternus, who had been engaged in these expeditions to the fouth, Elaccus from Cyrene 278, and Maternus from Leptis. Flaccus reported that the Ethiopians [of Agifymba] were three months journey fouth of the Garamantes, and Flaccus feems to have performed this march himself. Maternus reported, that when the king of the Garamantes fet out from Garama to attack the Ethiopians of Agifymba, he marched four months to the fouth. Ptolemy does not allow the use made of these reports by the geographer Marinus, which would carry Agifymba into 49° or 55° fouth latitude, ftill under his own correction he carries Prafum 273 into latitude 150 and Agifymba fomewhat farther to the fouth.

Wonderful as this march of Flaccus is to contemplate, through the very heart and most defert part of Africa into such a latitude, it is fill more extraordinary that the latitude of Prasum should coincide with Mosambique, and that two or three degrees father to the

<sup>369</sup> See Oforius, p. 52. 370 And the Phenicians, if Sofala is Ophir.

<sup>372</sup> Lihya. Ophir. 373 Page 115.

<sup>371</sup> Lib. i. c. 8.

touth, the kingdom of Benomotapa 374 should occur, in which Zimbao is still the name of a tribe, or as the Portuguese writers affirm, the court of the fovereign 375.

It is by no means necessary to affert, that Mosambique is identically Prafum, or the Zimbaos Agifymba, but the coincidence of latitude led the Portuguese almost to a man to give credit to the one, and the coincidence of found 176 has left a constant belief of the other. The Portuguese pilots were many of them well read in Ptolemy. It is from information of this fort that Di Barros maintains that Sofala is almost surrounded by a river issuing from a lake called Maravi, which the ancients supposed to be the origin of the Nile: a charge not very unjust, if we consider that Ptolemy has

Portuguese, as the source from whence all the gold dust at Sofala, and on the coast is acquired. There is faid to be a gold mine in that kingdom called Manica, and others of filver, as Faria affirms, (vol. iii. p. 148.) and gold is also found in the streams which come down from the mountains. These mountains, which Rennell calls the Belt of Africa, Di Barros places between the equator and tropick of Capricorn. What their breadth is, or whether they communicate with those of Abylinia is fill problematical. That they do, is highly probable; and as they throw down the Nile to the north, on the fouth they may well produce the Zambeze, or rivers of Cuamo or Quilimane; as well as the Obii and Ouilimance at Pate and Ampaca. and the great lake which all fpeak of with fo much uncertainty. We may suppose all these vivers which come to the fouth productive of gold as well as the river of Benomotopa. And as the kingdom of Abyffinia in its more flourishing flate certainly extended its influence

274 Benomotapa is celebrated by all the to Magadoxo, in latitude 5° north, fo may we discover the means by which, in all ages, the gold dust of the fouth found its way into that kingdom. Bruce fays it has no gold of its own, and yet gold by the ounce, and bricks of falt are the current coin of the kingdom. This method of procuring gold in Abyffinia from the fouth was known both to the Greeks and Arabs, and must apparently have been the primary cause of their voyage to the fouth, and possibly of those performed by the Idumeans, Phenicians, and Solomon to Ophir, if Ophir and Sofala be the fame.

375 Di Barros, in Ramufio, p. 261. vol. i. Barbefs, ibid, vol. i. p. 288. Marmol, vol. iii. who copies Di Barros.

274 D'Anville calls them Zimbas or Muzimbas, and feems to think them the fame as the Gallas, who have been the pest of Abysfinia for many centuries past, The lake here noticed he first introduced into a map composed for Le Grande's edition of Lobo in 1728,

brought the fource of that stream into 12° 30° o' fouth, though Di Barros himself is as bold in his affertion when he derives from the same lake." the Zambezè, with all the streams of Cuamo, the Espiritu Santo which falls into the sea below Cape Corrientes ", and another river which is to traverse the whole continent into Congo.

At this river of Zambezè we have a right to confider the discovery of Gama ascertained, as he had here united his circumnavigation with the route of Covilham; but we must conduct him to Quiloa, in order to make him meet the limit of the Periplûs at Rhaptum, and to Melinda, before he obtained a pilot to conduct him to the Indies.

It was not till the 24th "" of February that the fleet was repaired and ready to fail; and it is remarkable that the people had fuffered much here from the feurvy, notwithflanding the country is faid to have abounded with fruits of various forts in abundance; the difeafe is imputed to the lowness and humidity of the coaft, and the humanity of Gama is recorded as opening all his own flores for the relief of the afflicked. Upon the refumption of his course he kept along the coaft for fix days, and upon the first of March came in fight of four islands that lie off the port of Mosambique. It is upon the approach to this port that Castaneda first mentions boats turnished with fails; and no sooner did this fight meet the eyes of the navigators than Coello, running up along side of his commander,

<sup>175</sup> Marmol Ipeaks of a Lake Zaffan here, which he confounds with the Tans or Dembes of Habez, p. 150, et fee, 378 An. 1498.

cried out, " How fay you, fir, here is another kind of people." and such indeed they found them, for Mosambique was at this time under the government of Ouiloa, the fovereign of which was mafter of the coast from Sofala to Melinda 350, with most of the islands in the neighbourhood. From the colour of the voyagers they were eafily miftaken for Turks 311, with whom the Moors were necessarily acquainted in the Red Sea, and for this reason, upon the first interview every civility was imparted, and pilots granted at their request. With the discovery of this mistake, and the treachery in confequence of it. we have no concern, but with the appearances that evinced an Indian commerce Gama had every reason to be gratified. The vessels were fuch as traded along the coaft, large, but without decks, the feams fewed with cayro, or cordage made of coco, and the timbers fastened with the same without a nail throughout. The fails were mats composed of palm leaves; and many of the larger fort had charts and compasses 253. The Moors of the Red Sea and India received here the gold of Sofala in exchange for their commodities: and the town, though meanly built, furnished abundant specimens

Mombaça excepted, which had revolted, and Melinda was preparing for a revolt.

<sup>&</sup>lt;sup>38</sup> Mobrs of Barbary, according to Oforius, But this is foppofing that the natives of Mofambique knew that they had come round the Cape. It is much more probable that they dippofed them Turks from the Red Sea who had been down to Sofala, or had been driven accidentally to the fouth.

<sup>&</sup>lt;sup>352</sup> And quadrants, Oforius fays; but perhaps without fufficient authority. I have not

the Latin work of Oforius, but fuppose he might use astrolate, which is readered quadrant by his translator; this would not prove a knowledge prior to the Europeans, for the Arabick term is asthariab, evidently corrupted from the Greek, and shews its origin as readily as husifolm. See Chamb. Dict. in voce.

<sup>353</sup> The Arabick term for the compais is buffola, a certain proof that they derived it from the Italians who traded to Alexandria, Mickle, lxxx. See fupra.

of pepper, ginger, cottons, filver rings, pearls, rubies, velvet, filk, and various other articles of an Indian trade. The inhabitants were moftly Caffres, but the government was in the hands of Mohamedans from Arabia, and as the commander had feveral who could fpeak Arabick on board, a communication was readily opened, and intelligence fron obtained that the voyage to Caffcut was regularly performed, and the diffance about nine hundred leagues.

The fleet remained at Mosambique and in the neighbourhood till the 24th of March, and then made fail along the coast to the northward. I should have been glad to have conducted Gama to Quiloa, as I efteem it the Rhapta of the Periplūs; and I could have withed to have ended his navigation from Europe where I terminated that of the Greeks from the Red Sea; but partly from treachery and partly from accident, he was carried past Quiloa, and proceeded to Mombaça; the same treachery attended him at this place as before, which deterred him from entering the port. Some of the people, however, landed and found a city much more splendid than Mosambique. Here likewise were found all the commodities of India with the citron, lemon, and orange, the houses built of stone like those of Portugal, and the inhabitants chiefly Mohamedans, living with all the splendour and luxury of the east.

The ftay of Gama at this place was only two days, when he proceeded to Melinda and came to an anchor upon the 17th of

<sup>314</sup> It may not be improper to notice that is thus in the Thames that we call Northe language of the coalt liftes the courie to way hips, Danes, and Swedes, eaft country the northward self, and to the Cape welt. It

March 1498. There is no harbour here but an open road 188, the city, however, was fplendid and well built, with houses of feveral flories, and the appearance of wealth throughout, evinced the extent of their commerce and their communication with India. Here though Gama was not without sufficient, he experienced every act of friendship and hospitality; and this, because Melinda was inclined to hossilities with Quilos, andready to receive every one as a friend who had experienced injuries in a rival city.

We are here to take our leave of Gama; his discovery was ascertained, and after having conducted him within the boundary of the Greeks and Romans, the object for introducing this narrative of his voyage is answered. It is but justice, however, to notice, that he reached the long fought shores of India, and visited Calicut, the centre of Indian commerce, without any particular misfortunes, but such as are natural to a first attempt. He returned to Lisbon in 1499, where he received every honour which a generous sovereign and grateful nation could befrow.

He was again bonoured with the command of a squadron in 1502, when the fityle of his commission was that of admiral and 500emor; and he returned "a third time in 1524, under the reign of John III. when he was raised to the title of viceroy and count de Vidigueira. During this command he died at Cochin in 1525, after having the satisaction of living to see the power of his country paramount in the seas of India, from Malacca to the Cape

<sup>385</sup> Such as are the Ogus of the Periplus.

see Faria, vol. i. p. 63, and 280.

of Good Hope. A power which fine maintained for upwards of a century, and loft at laft by the lofs of those virtues by which it had originally been acquired.

Gama was formed for the fervice to which he was called, violent indeed in his temper, terrible in anger, and fudden in the execution of justice, but at the same time intrepid, persevering, patient in difficulties, fertile in expedients, and superior to all opposition. No action can entitle the most illustrious to the character of great, more than the fortitude he displayed when detained in Calicut by the Zamorin, and when he ordered his brother to fail without him. that his country might not be deprived of the fruits of his discovery. To the virtues of a commander he added the religion of a Christian, and though the religion of his age was never without a tincture of chivalry and fuperstition, in one sense at least his religion was pure. It was religion that supported him under the perils he encountered, and a firm perfuafion that it was the will of Providence that India should be discovered. The consequence of his discovery was the subversion of the Turkish power, which at that time threatened all Europe with alarm. The east no longer paid tribute for her precious commodities, which paffed through the Turkish provinces; the revenues of that empire were diminished; the Othmans ceased to be a terror to the western world, and Europe 387 has risen to a power which the other three continents may in vain endeavour to oppofe. Portugal it is true has loft her pre-eminence in the east, but she still retains Brafil, which was the accident of her Oriental voyages, and

<sup>&</sup>lt;sup>257</sup> Such is the opinion both of Abbé Ray- See in Mickle, p. 83. a citation from Faria nal, Mickle, Dr. Campbell, Harris, &c. &c. to this effect.

which has prolonged her existence as a nation to the present hour.

The reader will pardon this digreffion in favour of a man whom no hiftorian ever contemplated without admiration, but if the hiftory of the man does not attach to the purpose of the prefent work, the account of his voyage is one of its constituent parts. Our design has been to shew all that the ancients performed, or could not perform, and the voyage of Gama has been detailed, with all its difficulties, in order to prove the utter improbability of any previous navigation round the Cape. I will not say it was impossible, but I think it impossible to have been once performed and never prosecuted; I think it impossible that it should have shood upon the page of history as an insulated fact, through a lapse of one and twenty centuries, without imitation or repetition of the experiment.

XXVIII. It remains still to shew the relative situation of the Arabs on this coast of Africa, such as the Greeks and Romans left them, and such as the Portuguese found them upon their arrival in the Eastern Ocean. The Periplüs mentions that the Arabs of Rhapta were subject to the sovereign of Maphartis, and Maphartis itself was one of the dependencies of Sabéa or Yemen. They employed the vessels sewed with coco cordage, from whence the name of the place, and they traded to India, Arabia, the Red Sea, and Egypt. Arabs of the same description Gama sound here after the expiration of thirteen centuries, the same vessels on the coast,

and the fame foreign trade. One circumflance indeed was different, the religion of Mahomet had at the fame time introduced fuperior vigour, and a more extensive commerce, engendered a hatred to the Christian name, which excited that malice and treachery which Gama experienced, and which, perhaps, without a difference of faith, the rivalship in commerce must necessarily have produced.

Of these Arabs there were two distinct parties, one called Zaydes or Emozaides, who were the first settlers upon record, and the other tribe from Baca in the Gulph of Persia near Bahrein 1883. The Emozaides were hereticks of the fect of Ali, they came from Yemen, and feem to have occupied the coast of Africa, after the time of Mahomet, in the fame manner as their Heathen brethren had fettled there in the age of the Periplûs. The tribe from Baca were Sonnites or orthodox, who hate the Shiites worfe than Christians; they had feized first upon Quiloa, and had extended their power for two hundred miles along the coast, but from their internal diffensions were declining in power when the Portuguese first arrived in the Indian Ocean. Upon the introduction of this tribe from Baca 189, the Emozaides retired inland and became Bedouins 300, they intermarried with the natives, and ftill exift as black Arabs, little diffinguished from the Caffres who are found both on the continent and in the islands 391, which lie in the Mosambique channel, and even in the ifland of Madagafear.

The

<sup>250</sup> Df Barros, in Ramufio, vol. i. p. 386. to be of the tribe Beni Houle, in Oman.

et feq. 550 Wandering tribes that live in tents.
539 Hwe may judge from Niebuhr they ought 591 The king of Johanna is perhaps of this

The whole coast below Mombaça was under the power of these Sonnites from Baca; but Mombaça had revolted, was independent, and had a fovereign of its own, who was a Sonnite; while Brava and Magadoxo were ftyled republicks, where the power was in the hands of twelve 192 principal families forming an ariflocracy, perhaps as confpicuous on that coast as Venice was in the Hadriatick.

This state of the country is perfectly analogous to the descrip ion of it in the Periplûs; every city, fays that journal, was a separate government, and every government had its independent chief. Such they were in that age, and fuch they might have continued if an European power had not arisen, which overwhelmed them all in a period of less than twenty years. Sofala, Mosambique, Quiloa, Angoxa, Ocha, Patè, Mombaza, Brava, and the Zanguebar Islands,

caft, half Arab and half Negro, as Sir William Jones says the family came from the main. The proper name is Hinzuan, which became Anjuan, and Anjoanè easily made Johanna by an English seaman. It is one of the Comora Ifles between Madagafear and the continent; and Comora ftill preferves the name of Comv. the Arabick name of Madagafcar, the Island of the Moon.

. .392 The love of independence is the ruling principle in the mind of an Arab, and a patriarchal fovereignty is the only one to which he can naturally fubmit. This it is which drives fo many petty tribes into the deferts, which they occupy from Melopotamia to the though they do occupy places which they have them the idea of a republick.

conquered, ftill every city must have its chief, and every chief finds a party within his walls which is hollile to his government. Niebuhr has painted this spirit of the people most admirably throughout his work. But the Mahomedan religion has also produced an ariftocratick principle, fubfifting under all the defpotism of the east. The Ulemas, under the Turkish government, are an aristocracy be-

tween the monarch and the people; and whoever is acquainted with Oriental manners, knows that there were families which preferred a fort of ruling power in Samarkand, Bagdat, Bafra, and all the principal cities of the eaft. Such a junction of families might well exift at Brava frontiers of Morocco, and from the coasts of and Magadoxo, when the Portuguese first the Perlian Gulph to Molambique. The re- vifited the coast; and any government where fidence in cities is unnatural to them, and there was no oftenfible chief would fuggeft to

all fubmitted to Diego Almeida, and Triftan d'Acuena before the year 1508. Melinda, which had always been friendly, loft all her importance, and Magadoxo only refulted with effect; but whether from the bravery of the people, or because it lay too much to the north to be of importance, is hard to determine. Had they not been conquered they must have funk in their importance from the natural course of events; the finews of their commerce were cut. and their ships could not fail without a Portuguese pass. The produce indeed of the coast itself would still have maintained these cities from utter decadence, and brought foreigners to their ports: but the power of the Portuguese monopolized all profits, till it fell in its turn by the errors of the government, and by the avarice and peculation of its officers. Of all these conquests which do so much credit to their valour, and fo little to their policy, Mosambique is the only poffession which has survived the wreck of their empire; and this port is faid still to be a profitable fettlement, and to preserve an influence over the other states, which have reverted again intothe power of the Arabs: among these the Imam of Oman is the chief, and Quiloa and Zanguebar are governed by Sheiks of his appointment 793.

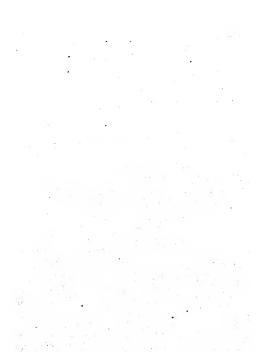
It was my intention to have closed this account of the coast, and this part of the Periplûs, which I call the African Voyage, with fome particulars relating to the Arabian fettlements, and their fituation under the power of the Portuguese; but the whole of this subject has been so ably discussed by the writers of the McUniversal History, in their twelfth volume, and so much more at large than would have been suitable to the nature of the

prefent work, that the labour is not necessary. Some particulars I had collected from Reslende's MS. in the British Museum, with which they were not acquainted, that might have been acceptable's but in general, the authorities they have followed are so genuine, and their own observations so just, as to admit of little farther enlargement upon the subject.

Here, therefore, I close the First Part of my design, which was to examine the navigation of the ancients on the coast of Africa, from their first entrance into the Red Sea, to the termination of their progress to the fouth; and to connect their discoveries with those of the moderns, by fixing on the voyage of Gama as the point of union. The Second Part will contain two books allotted to Arabia and India, a fubiect less obscure, but still curious rather than amusing. The materials for the whole are collected, and will be published as foon as they can be reduced into form; but whether that period will be fhort or diftant I cannot prefume to calculate. I am fully fenfible that want of leifure ought to be confidered rather as a bar to publication altogether, than pleaded as an excuse for publishing a work incomplete or incorrect. But if time had been taken to complete the whole, it might never have been brought to the prefs; and if the part now edited be incorrect, it is not from negligence, or from misapplication of such leisure as I have, but from want of powers to perfect it to my own fatisfaction. It remains with the 13: public

public to decide whether it will be better that the Second Part should be published or suppressed.

It is with extreme regret that I am again compelled to advert to the difagreement between Mr. Goffelin's opinion and mine, in regard to the limit of ancient discovery towards the fourh. I could have wished to have seen his work sooner, that I might have given it the confideration it deserves; or not to have seen it at all, that both our opinions might have been left undisputed, for the judgment of the publick; but I now cannot help observing, that although, from the preffure of time, I am not competent to decide on Mr. Goffelin's account of the ancient geographers, or the various methods he has affumed for correcting their errors, still I cannot but acknowledge his masterly and scientifick possession of his subject, as well as the great perseverance of his investigation; and if I differ in opinion from such a writer, I still pay respect to his talents and abilities. We differ, it is true, feveral degrees upon the extent of the voyage in the Periplûs. But if Mr. Goffelin will allow, which he does, that it extended beyond Cape Gardefan and Cape D'Affui, then he must acknowledge that feven mouths of rivers, answering to the last division of the voyage in the Periplûs, can nowhere be found till we approach the mouths of the Obii. This is the great proof upon which I reft the question; for supposing the Pyraláan Islands to be defined by the streams of that river, as it divides upon its approach to the fea, the Periplûs is in perfect harmony with the accounts of the Portuguese in general. and Reffende in particular; and if their authority is infufficient. I know of no better to which an appeal can be made.



#### THE

## PERIPLUS

OF THE

# ERYTHREAN SEA.

PART THE SECOND.

THE

# PERIPLUS

OF THE

## ERYTHREAN SEA.

PART THE SECOND.

CONTAINING.

AN ACCOUNT OF

# THE NAVIGATION OF THE ANCIENTS,

FROM THE GULPH OF ELANA, IN THE RED SEA, TO THE ISLAND OF CETLON.

WITH DISSERTATIONS.

#### By WILLIAM VINCENT, D.D.

Γράφω δε ταύτα, τολλοϊς μέν έπτιχει ΠΕΡΙΠΑΟΙΣ, σολών δε της του τένταν ίδουν ἀναλώτας χρόνο. Μακειακύς Ηεκαειεστα, αρυά Ηυσσοκυμ, p. 62.

LONDON:

PRINTED FOR T. CADELL AND W. DAVIES, IN THE STRAND. 1805.

# THE KING.

SIR,

When I was honoured with permission to dedicate the former part of this Work to Your Majesty, I entertained little hope that the remainder would be brought to a conclusion. But the consequences of Your Majesty's condescension in my favour have been leisure, tranquillity, and health. In possession of these blessings, I returned naturally to those pursuits

fuits which have enabled me to fulfil my engagement to the Public. Impressed therefore, as I am, with a sense of the most devoted gratitude, nothing remains for me to solicit, but the continuance of the same protection to the completion, as I experienced at the commencement of the Work. And if it shall appear that the plan has been formed with judgment, and executed with sidelity, no farther qualification will be necessary to recommend it to the consideration and patronage of Your Majesty.

I have the honour to fubscribe myself

YOUR MAJESTY's

Most obedient,

most faithful,

humble Servant, and Subject

JUNE, 1805.

WILLIAM VINCENT.

### PREFACE.

WHETHER the following Work will afford a degree of fatisfaction proportionate to the labour of compiling it, is a question not for the Author, but for others to decide. By fome it may be thought digreffive, tedious, and minute; while others may conceive that there are various fources of information still unexplored, which it was my duty to investigate. To the first I reply. that I thought nothing superfluous which could contribute to the elucidation of the fubject proposed; and in answer to the latter I may observe, that there must be fome limits affigned to collection and refearch. It is the office of judgment to felect only fuch materials as will bear upon the point to be discussed; and for the exercise of this judgment, I now stand amenable to the tribunal

tribunal of the Public. Friendly animadversions upon the errors which may occur, I shall consider, not as a cause of offence, but as the means of correction; and of remarks proceeding from a contrary spirit, I have hitherto had little reason to complain. But if the Work which I now submit to the inspection of the Public, should not obtain the same savourable reception as I have experienced upon former occasions, it shall be my last offence. In the fixty-fixth year of my age, it is time to withdraw from all my pursuits of curiosity, and consine myself to the duties of my profession.

### ADVERTISEMENT.

The account of Marco Polo's Map, given (Part I. p. 201.) from Ramufio, is not correct; for it has fince appeared, that the Map in the church of St. Michael di Murano, is not Marco Polo's, but drawn up by Fra Mauro, a geographer at Venice; and is the Map copied for Prince Henry of Portugal.

A Fac Simile of this Map has been taken, and is expected in England every day; when it arrives, a short account of it will be given, and delivered gratis to the purchasers of this work.

The Map of Marco Polo's Travels is in the Doge's Palace at Venice, and was framed from that of Fra Mauro.

I am to acknowledge my obligations to Mr. Dalrymple, in regard to the present publication, in the same manner as upon former occasions: I was, by his kindness, furnished with Surveys of the Harbours and Islands on the Coast of Malabar, which have been of great use.

And to Mr. A. Hamilton, of Edinburgh, editor of a Sanskreet Dictionary, I have been indebted for the Interpretation of Sanskreet Names on the same coast. This savour was the more acceptable, as I was known to that Gentleman only by my publications; and his offer of assistance was spontaneous.

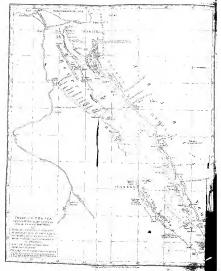
# CONTENTS.

PERIPLUS of the ERYTHREAN SEA.			
PART II.			
Book the Third, ARABIA		Page	229
Book the Fourth, INDIA -	-		335
SEQUEL to the Periplus	-		47
DISSERTATION L			
On the SINE, the SERES, and the Termination of	ancient	t Geo-	
graphy on the East	-		481
DESSERTATION IL			
On the Twenty-seventh Chapter of EZEKIEL -	1		522
DISSERTATION III			
On the Navigation and Compass of the CHINESE,	by the	Earl	
of MACARTNEX	-		556
\$2	P	PP.	E N

### APPENDIX,

#### CONTAINING

A Catalogue of the Articles of Commerce in the Periplus, corrected, enlarged, and compared with the Articles enumerated in the Digest of the Roman Law, relating to the Imports and Exports at Alexandria Page 561



### PERIPLUS

OF THE

# ERYTHREAN SEA.

## ARABIA.

### BOOK III.

- Introducilon.—II. Leukè Komè.—III. Petra, Kingdom of Iduméa, Nabatbéan..—IV. Voyagee diftinguijbable in the Periplius.—V. The Compafi..—VI. Wealth of Arabia.—VII. Thamudeni and Canraiter.
  —VIII. Burnt Ifland, Moofa, Coaft of Yemen.—IX. Expedition of Elius Gallus.—X. Straits of Babel Mandeb, ancient Navigation of Scfoftrir.—XI. Aden.—XII. Arrangement of the Coaft of Arabia on the Ocean —XIII. Kanè.—XIV. Bay Sachalites, Hadramaut.—XV. Diofkorida, or Socotra.—XVII. Mofkba and Omana.—XVII. Iflands of Zembius, or Curia Muria.—XVIII. Sarápis, or Mazeira.—XXIX. Iflands of Kalaius, or Suadi.—XX. Iflands of Papias.—XXII. Sabo, Affibbo, or Moçandon.—XXII. Terédon, Aphlogus, or Oboleb.—XXIII. Orièntal Commerce by the Gulph of Perfia.—XXIV. Cairo.—XXV. Crufades.—XXVII. Gerrba.—XXVII. Mindais.—XXVIII. Mitquity of Oriental Commerce.—XXIX. Gonclufion.
- 1. THE commerce of the Ancients between Egypt and the coast of Africa, with all that concerns their discoveries to the South, has been traced in the preceding pages; and we now return

again to Egypt, in order to take a fresh departure, and prosecute our inquiries till we reach their final boundary on the East. The present Book will comprize all that concerns the commerce of Arabia, both in the interior, and on the coast.

The Periplâs is fill to form the basis of our investigation; but as the object proposed is to give a general account of the communication with the East, no apology is requisite for detaining the reader from the immediate contemplation of the work itself. A variety of scattered materials, all centring at the same point, are to be collected, before a comprehensive view can be presented, or an accurate judgment formed; and if this task can be executed with the fidelity and attention which the nature of the subject requires, the general result will be preserable to the detail of a single voyage, in the same proportion as a whole is superior to its parts.

The commencement, then, of this fecond Voyage is again from Berenike, and from this port there were two routes practifed in the age of the author; one, down the gulph to Moza and Okëlis direct, and the other, first up to Myos Hormus, and then across the gulph by the promontory Pharan, or Cape Mahomed, to Leukè Komè in Arabia. This latter route is the immediate object of our confideration.

### LEUKÈ KOMĖ.

II. LEUKE KOME, or the White Village, I shall place nearly at the Mouth of the bay of Acaba, the Elanitick Gulph of the ancients;

A comparative table, containing the difficrent distribution of the ancient names, by M. after; and I must mention once for all, that when

and my reasons for assuming this position will be given at large in their proper place. But to this village we are immediately directed by the journal, after a passage of two or three days from Myos Hormus: for here, we are informed, " was the point of commu-" nication with Petra the capital of the country, the refidence of " Malichas the king of the Nabatêans. Leukê Komê itfelf had the " rank of a mart in respect to the small vessels which obtained " " their cargoes in Arabia: for which reason there was a garrison " placed in it under the command of a centurion, both for the " purpose of protection, and in order to collect a duty of twenty-" five in the hundred " [upon the exports and imports].

We obtain, in these few words, a variety of particulars highly important to the subject of our consideration; for we find a native king under the controll of the Romans, a duty levied upon the trade of the natives, and the nature of the communication between the port and the capital. And if we now reflect that the intercourfe with the capital was rather fixed here, at the mouth of the Elanitick gulph, than either at Elana itself, or at Ezion Geber, we shall discover the same principle as operated on the Egyptian coast, where the communication was fixed at Myos Hormus rather than Arfinoe. or at Bereníkè in preference to Myos Hormus.

when I make use of M. Goffellin's Researches to him the old complaint, male fit illis qui without mentioning his name, it is not to deprive him of the honour of his discoveries, but because it must occur so frequently that the repetition would be offentive. I had traced this coast many years before the publication of M. Goffellin's Recherches fur la Geographie des Anciens, 240mes, Paris 1798; and though he precedes me in publication. I will not apply

ante nos noftra dixerunt.

<sup>2</sup> ignore Courses; literally, fitted out. In Albuquerque's time, the foldan of

Egypt received cultom upon fpices, and other commodities, at Judda, in the fame manner as the Romans had formerly received them at Leuke Kome. Commentar. de A. d'Albuquerque, p. iv. c. 7.

#### PERIPLUS OF THE ERYTHREAN SEA.

232

In the age of the Periplûs, as this course was the less frequented of the two, so is it apparent that the commerce itself was of less importance; the vessels employed are Arabian, and the duty seems collected on them only: possibly the ships, which touched here after erossing from Myos Hormus, had paid the customs in that port, and made this harbour chiefly for the purpose of accommodation, or of afcertaining their route down the coast of Arabia.

Very different is the idea that I conceive of this trade while the communication with Egypt was in the hands of the Arabians themfelves, previous to the appearance of Ptólemy's fleets upon the Red Sea, and their immediate communication with Sabëa; for the caravans, in all ages, from Minêa' in the interior of Arabia, and from Gerrha on the gulph of Perfia, from Hadramaut on the ocean, and fome even from Sabëa or Yemen, appear to have pointed to Petra, as a common centre; and from Petra the trade feems to have been again branched out in every direction to Egypt, Paleftine, and Syria, through Arfinoè, Gaza, Tyre, Jerufalem, Damafeus, and a variety of fubordinate routes that all terminated on the Mediterranean.

It is not confonant to the defign of this work to enter into any commerce antecedent to history; but from analogy, from the magnificence recorded of Ninevè and Babylon, from the ruins of Thebes fill remaining, there is every reason to suppose that the wealth and power of these great cities arose from a participation in this commerce; and that the Arabians were the carriers common to them all.

<sup>4</sup> The polition of the Minei is dubious: from Mecca, tom. ii. p. 116.; Strabo places Bochart fuppoles them to be in the vicinity of Carans of the Mineans next to the Sabeans, Hadramaut; Golfellin places them two days p. 768.

This is a fact which will admit of proof as foon as history commences; but we may paufe a moment to observe, that though the Chaldeans and Affyrians might have been navigators themselves, as the gulph of Persia opened a communication for them with the Indian Ocean, and their works at Babylon and Teredon intimate fome attention to the advantages of a naval power: still the Indians', Persians, and Egyptians, seem to have been restrained by prejudices, either political or religious, from diffant navigation; and though Persia and Egypt manifestly reaped the profits of an Oriental commerce which paffed through these countries to others more diffant, either on the north or on the west, still the common centre was Arabia . the Arabians had no obstructions either from manners. laws, habits, or religion; and as there is every proof that is requifite, to shew that the Tyrians and Sidonians were the first merchants who introduced the produce of India to all the nations which encircled the Mediterranean, fo is there the ftrongest evidence to prove, that the Tyrians' obtained all these commodities from Arabia.

non si riceve per testimonio, ne quello che naviga per mare.

 Linfehotin in Purchas, vol. iii. p. 1765. writes, "the Abexiins [Abyfinians] and Arabians, fuch as are free, do ferve in all India for laylers or feafaring-men."

<sup>6</sup> Plin. lib. vi. c. 28. Arabes in univerfum gentes ditiffima, ut apud quas maxime opes Romanorum Pathorumque tubfidant, vendentibus quæ a mari aut fylvis capiant, nihil invicem redimentibus.

7 See Herodotus, who fays the name of Cinnamon is from the Phenicians.

## PETRA. KINGDOM OF IDUMÊA. NABATHÉANS.

III. But if Arabia was the centre of this commerce, Petra was the point to which all the Arabians tended from the three fides of their vaft peninfula thee, upon opening the oldeft hiftory in the world, we find the Ishmaelites, from Gilead, conducting a caravan of camels loaded with the spices of India, the balfam and myrth of Hadramaut; and in the regular course of their traffic, proceeding to Egypt for a market. The date of this transaction is more than seventeen centuries prior to the Christian era; and, notwithstanding its antiquity, it has all the genuine features of a caravan crossing the Defert at the present hour.

It is this confideration, above all others, which makes the Petra we have arrived at with the Periplûs, an object the moft worthy of our curiofity; for Petra is the capital of Edom or Seir, the Idumêa or Arabia Petrêa of the Greeks, the Nabatêa, confidered both by geographers, historians, and poets, as the source of all the precious commodities of the east. And as Idumêa is derived from Edom, or

Agathachide Hudf: p. 57. Ufrays and Mucata, and Will Robarins. ... is in Validana Mucata, and white Robarins. ... is in Validana Mucata, and water is handler begreet with solenate "Apathach in the Admentic, is object, and in deptin in high buildan distantia, shall vite you had the grant ship in buildan distantia, shall vite you had a sandyamen. And the principle of the sandyamen. And update in the British of the Committee of the Parties of the Parties

jo In the thirteenth chapter of Exodus the

Arabis, are mentioned by name; and it is not affuming too much to fuppofe; that the fipices here mentioned are from India allo: the term untel is PIRC3. Necotia, which fignifies any thing bruited or brayed in a mortar, as fipices are reduced in order to the them with our food. "1y, Tieri, is a gum or hellam; and U), Lot, is the fame, evidently marking the produce of Arabis. See Purkhurth in voce. See alife Gen. xxv. 18.; and Cumberland's Origin of Nations, p. 210. Efau the son of Isaac, so is Nabatêa deduced from Nebaioth the son of Ishmael; and Esau married Bashemath ", the fifter of Nebajoth; Little respect as has been paid to the genealogies" of the scripture by some writers of the present day, it is still to be considered that the Bible may be tried by the rule of history as well as inspiration, and that the traditions of the Arabians are in harmony with the writings of Mofes; for they as univerfally acknowledge " Joktan, the fourth from Shem, as the origin of those tribes which occupied Sabêa and Hadramaut, that is, Yemen and the incense country; and Ishmael the son of Abraham, as the father of the families that fettled in Hejaz, which is Arabia Deferta; as they do Edom for the ancestor of the Iduméans, who occupied Arabia Petrêa. These form the three 's general divisions of this vast country and nation, as extraordinary for the prefervation of its manners, as its liberty; and which is continuing at this day to fulfil one of those prophecies which affure us of the truth of that History in which these families are recorded.

The name of this capital, in all the various languages in which it occurs, implies a rock. ", and as fuch it is described in the Scriptures, in Strabo, and Al Edrissi; but it is a rock supplied with an abundant

<sup>15</sup> Gen. xxxvi. 3.

<sup>11</sup> See Gibbon, vol. v. p. 179, note 21.

and p. 197.

Gen. x. 26, 27. the fon of Joctan. Hazarmaseth is equivalent to Hadzemauth, or Hadramaut.

<sup>27</sup> The Arabians divide their country into rife to a river, we five, taking in Oman and the eaftern fide, c. 18. and white under the name of Aronda or Jenama, and Lake Afphaltis. making a dikinet part of the Tchamaor country

below the mountains. See Reiske Ind. Geog. in Alfilfedam.

<sup>4.</sup> Thomus gives a name to the Thamydeni of the Greeks in this neighbourhood, and is fufficiently acknowledged by the Oriental

writers. The springs of Thomad might give rife to a river, which Pliny mentions, lib. vic. 18. and which d'Anville carries into the Lake Afphaltis.

fpring of water, ftyled Thomud' by the Nubian, which gives it a diffinction from all the rocks in its vicinity, and conflitutes it a fortress of importance in the Defert. Straßo did not visit it himself, but describes it from the account of his friend Athenodôrus the philosopher. Athenodôrus spoke with great admiration of the people, their civilized manners and quiet disposition. The government was regal; but it was the custom for the sovereign to name a minister ", who had the title of the king's brother, in whose hands the whole of the power "seemed chiefly to reside: such a minister (or vizir, as we should now call him) was Syllèus in the reign of O'bodas and Aretas, who makes so conspicuous a figure in the history of Josephus, and who was tried and executed at Rome, according to Strabo, for his treachery to Elius Gallus.

<sup>37</sup> The names are, Rekam; Numbers, xxxi. S. Johua, xiii. 21. Bochart. Canaau, lib. i. c. 44. Rakim

Rokom. Rekemè

Rekemė; A Rekemė; quæ Græcis vocatur Petra. Jo-

Arkè. Josephus. Sela; from y p, a rock. Heb.

Hagar, a rock. Arabek. Herbelot in voce,

Arak, Karak, Krak de Montreal. Crufaders. Petra, a Rock Greek. The Rock, pre eminently. Jerem xlix. 16.

See Blaney in loco.

But fee Schultens (Indey Geog. ad vitam Saladini), where he informs us that Hagar and Krak are not Petra, though in the neigh-

bourhood. Petra, he fays, is Errakym, the fame as the Releene or Rakim of Jofephus. See Voc. Crascaba, Errakimun, Sjuubech, libid. The milhate of one for the other he imputes to Brunder. Thefamenta de Acquille. Tomos and the state of the state of the computer of the com

In the route from Gaza to Karak there are fill the ruins of thirty villages, and remains of buildings, pillars, &c. indicating the former wealth of the country. Volney Syria, p. 212. 18 Jerrypozò, as literally a vizir as it can be rendered.

17 Josephus Antiq. xvi. p. 734.

Mofes was forbidden to moleft the fons of Edom in his passage through the wilderness; but that there was then a confiderable commerce in the country we have reason to conclude, from the conquest of Midian 29, in its neighbourhood, by Gideon 27, not many years after; when gold is described as abundant among the Midianites, and their wealth in camels a proof of the traffic by which they fubfifted. In the reign of David, Hadad " the prince of Edom was driven out, and Hebrew garrifons were placed in Elath and Ezion Geber, where Prideaux supposes that David commenced the trade of Ophir 42, which was afterwards carried to its height by Solomon.

And here, perhaps, it will be expected that the trade to Ophir should be examined, which has so much divided the opinions of mankind, from the time of Jerom to the prefent moment; but as I have nothing decifive to offer upon the question, I shall only state my reasons for acceding to the opinion of Prideaux and Gossellin, who confine it to Sabéa.

For I neither carry Ophir to Peru with Arias Montanus, or to Malacca with Josephus, or to Caylon with Bochart, because I confider all these suppositions as founded upon no better evidence than the finding of gold in those countries; but our choice must lie be-

tween

Elanitick Gulph, called Madien by the Arabs, and Jethro, Scioaib Al Edriff, p. 109.

<sup>21</sup> Judges, viii. 24 the people are called Ishmuelites. Gideon for his reward demended the ear rings of the mon, and the chains on the camels' necks; the decoration betpeaks the value of the animal.

<sup>2)</sup> Midian is the country of Jethro, on the countries; and his marriage with Pharaoh's daughter proves his rank and estimation. I Kings, xi. 19. He attempted to recover Edom in the latter end of Solomon's reign.

David had treasured up three thousand talents of the gold of Ophir (Chron. xxix. 4. ; but this does not prove the voyage, for the gold of Ophir was a common expression. See 25 Hadad fled into Egypt for protection, Job, xxii. 24. xxvi. 16. Plalms, &c. &c.

a proof of the connection between the two lxv. g. See Prideaux's Connections, p. 4.

tween the coast of Africa and Sabéa. Montesquieu, Bruce, and d'Anville, have determined in favour of Africa, principally, I think, because gold has always been an export from that country, while the precious metals were usually carried to Sabéa, to purchase the commodities of the east. I allow great weight to this argument; and I admit the probability of d'Anville's supposition, that the Ophir of Arabia might naturally produce an Ophir on the coast of Africa, which should, by an easy ctymology, pass into Sophir, Sophar, Sopharah el Zange, or Sophala: but I by no means subscribe to the fystem of Bruce, which he has displayed with so much learning and ingenuity; and which he thinks established by the discovery of an anomalous monfoon prevailing from Sofala to Melinda. A fenfible \*\* writer has denied the existence of any such irregularity, and appeals to Halley 45, Parkinfon, and Forrest; and if the irregular monfoon is annihilated, nothing remains in favour of his hypothesis but the

24 In the Gentleman's Magazine, 1793, count obtained, was, that the winds are much

b. 222. 25 Halley's account is to be found in the Philosophical Transactions, 1686, p. 153; in which he fave, that in the fouth well monfoon the winds are generally more foutherly on the African fide, and more wellerly on the Indian. So far he is directly adverse to Bruce's system; but he adds, that near the African coast, between it and the Island of Madagascar, and thence to the northward as far as the line, from April to October there is found a conflant fresh S.S.W. wind, which, as you go more portherly, becomes ftill more wefterly. What winds blow in thefe feas during the other half year, from October to April, is not cafy to learn, because navigators always return from India, without Madagafear : the only ac-

eafterly hereabouts, and as often to the north of the true call, as to the fouthward of it.

The last seutence is all that Bruce has to build his anomalous monfoon on ; and it does not prove an anomalous monipon, but a fluctuation in the regular one.

" The west winds begin the first of April " at Socotora : the eaffern monfoon the 12th " of October, continues till April, then fair " weather till May. Neither have they more " than two monfoons yearly ; well monfoon " blows at Socotora all fouth; east monfoon, " all north. After the Ath of September " thins cannot depart from the Red Sea eaft. " ward." Purchas, vol. ii. 193. Keeling's Vovace.

duration " of the voyage. The duration it should feem eafy to account for, upon a different principle; for the navigators were Phenicians, and we learn from Homer" their method of conducting business in a foreign port. They had no factors to whom they could confign a cargo in the gross, or who could furnish them, on the emergence, with a lading in return; but they anchored in a harbour, where they were their own brokers, and disposed of their cargoes by retail. This might detain them for a twelvemonth, as it did in the instance to which I allude; and if the Phenicians traded on the Eastern Ocean, as they did in the Mediterranean, we may from this cause assign any duration to the voyage which the history requires.

But my reasons for adhering to the opinions of Prideaux and Gosfellin are, first, that Ophir is mentioned "with Havilah and Jobab, all three sons of Joktan; and all of them, as well as Joktan, have their residence in Arabia Felix, most probably beyond the Straits; and secondly, because the voyage to Ophir seems in consequence of the visit of the queen of Sheba to Jerusalem: it is immediately subjoined "to it in the same chapter; and Sheba is Sabba.", or Arabia Felix, as we learn with certainty from Ezekiel". It is particularly

ters of Sabéa. He gives a very rational ac-

<sup>&</sup>lt;sup>16</sup> Pliny, on a much shorter distance, that is, from Azania to Ocila or Okêlis, makes the voyage sive years. Lib. xii. 19.

<sup>27</sup> Odyffey, 0. 454.

<sup>28</sup> Genefis, x. 29.

<sup>29</sup> I Kings, x. 10, 11. See Gossellin Recherches, tom. ii. p. 121. 2nd Volney, Syria, p. 170.

<sup>20</sup> Cofinas Indicupleates supposes the queen of Sheba to be the queen of the Homerites; that is, in his age, the Homerites were mas-

count of the trade of these Homerices, or Subbans rather, with Africa, for the spices which the queen of Sheba brought; their intercourse with the Red Sea, Persia and India, and Zingium or Zanguebar; with the gold obtained thence by the Abylishans, and brought into Arabia, as it is to this day. See Cosmas in Melch, Theretox, vol. 1; p. 7.

s; 31 Ezek. xxvii. 22. "The merchants of

added, that the royal vifitant brought a prefent of fpices: "there were no fuch fpices as the queen" of Sheba gave to Solomon."

I do not wish to conceal an objection to this supposition; which is, though they are taxed, that spices are never mentioned as an article of importation from Ophir. The produce of the voyage is gold, sliver, ivory, almug-trees ", apes, peacocks, and precious stones. But as on the one hand this failure in the invoice will argue much more forcibly against any of the more distant Ophirs which have been assumed; so on the other, it is no proof against Sabba, that several of these articles are not native; for these, and many more than are enumerated, would certainly be found in Sabba, if the Arabians were navigators in that age, as we have every reason to suppose they were.

The evidence that Solomon obtained gold from Arabia is exprefs; and as our early authorities notice gold as a native produce among the Debæ" of Hejaz, fo may we conclude that the gold of Africa always found its way into Yemen through Abyffinia, as it does at this day. The import of gold; therefore, we carry up as high as the reign of Solomon, and bring it down to the time of Ptolemy Philadelphus, king of Egypt; for we learn, from the testimony of Ezekiel and Arísteas", that spices, precious stones,

"chants: they occupied in thy fairs [marts] 
with chief of all fpices, and with all precious flones and gold." In this palling the 
introduction of gold from Arabia is specific, 
and the three articles are the fame as they 
continued to be in the reign of Ptolemy Phiskdelphus. See Artifless.

12 a Chrom., ix. o. from Golfellin.

בומי איל. Agal Gummim, is, liquidorum gutte. gum. But in feripture the wood does not appear to be brought for its gum, but for use, and mutical informents were made of it, 1 Kings, x. 12., as Shaw observes, who supposes it to be cypreis, fill a sed by the strains for that purpose. See 2 Citron. ix, z.t.

<sup>&</sup>lt;sup>29</sup> Almug and Algum are both read in feripture; and Shaw, p. 412. cites the opision of Hiller, in his Hierophyticon, that

<sup>24</sup> Deb is faid to fignify gold, in Arabick. All the kings of Arabia brought gold and filver to Solomon. 2 Chron. ix. 14.

<sup>35</sup> Πολό δε πένδες και νών δερφείτων και λίθης πολοπολός

and gold, were brought by the Arabians into Jadea. I do not with to lay more firefs upon this tellimony than it will bear; but it is not unreatonable to fuppofe, that the circumflances of this commerce were fimilar, in an early age, to those of a later period. The removal of these difficulties will shew the inducement which persuades me to join in opinion with Prideaux and Gossellin, upon a question, that has been more embarrassed by hypothesis, and distracted by erudition, than any other which concerns the commerces of the ancients.

The participation of Hiram in this concern is founded uponnecessity as well as policy; for it Solomon was master of Iduméa, the Tyrians were cut off from Arabia, unless they united with the possitions; and whatever profit Solomon might derive from the import, the whole of the export on the Mediterranean would be to the exclusive emolument of Tyre. Here the Greeks found the commodities of the cast, or received them in their own ports from the hands of the Phenicians; for they were not allowed to enter the harbours of Egypt till the reign of Psammetichus; and the very

motivate and XPYLOV memory/gram be into Against and the Against the relation. Another, p. 40. Ed. Wells, to some content and the Against and Against a Against

Strabo, it does not follow that the Tyrian were auditor of the piace, however their trade paffed through it. But Rhimcollira by its frunking on the limits of Phonicia and Egypt, was vertaily alopted in a peculiar manner for keeping upon the communication. Prifetens's commit of Humilan and this trade (part; p. p. p. ; is highly accurate and comprehenive; but we had no date of the fact received by Strabo.

<sup>3</sup> (...) in Aγάδων, perhaps, through the country of the Arabians. Agatharchides is alfo an evidence in favour of the exportation of gold from Arabia: δτο υπόχχιστο τη Πεσλφαία Σεύαν στιστάκουν, D. Οδ.

names of the articles they obtained were derived from the Phenicians, as we are informed by Heródotus 17.

The possession of Iduméa by the kings of Judah continued little more than an hundred years, to the reign of Jehoram, when the Idumêans revolted 28, and were not again subdued till after an interval of eighty years, in the reign of Uzziah 39. Seventy years after this, the Syrians 40 feized upon Elath; and here terminates the trade of Ophir, in regard to Ifrael; and probably in regard to Tyre, with the capture of that city, about an hundred and fixty years later, by Nebuchadnezzar.

Whether Nebuchadnezzar over-ran Idumêa, is a question that hiftory" has not refolved; or whether he belieged Tyre with any view of opening a communication with the Mediterranean, is equally amknown; but that he had fome plan of commerce on the gulph of Perfia in contemplation, we may judge from a curious fragment of Abydenus 48, which informs us, that he raifed a mound or wall to confine

27 Τὸ Τὰ Τὰ κινιάμωμαν έτι τύτων Βαυμπιστότερον sundiferent and min out offerent, and one has one of the its Tyrian name.

restant in de trans intiv..... Sudas di λόνωσε μενάλας Φορίων ταύτα τὰ κάς Βεα. Τὰ πμεῖς

ώπο Φορώκων μαθόντες κυκόμωμου καλέσμεν, lib. iii. p. 253.

"The cinnamon is ftill more extraordinary; Edom in the 49th chapter of Jeremiah. " for where it grows, or what country pro-4' duces it, they cannot fay; only the report " is, that birds bring the little rolls of the " bark which we, from the Phenicians, call " cinnamon." Herodotus supposes it, indeed, to come from the country where Dionysus, or Bacchus, was born, that is, India; though

there is a fable that he was born in Sabéa: but its progress is clearly marked through

Arabia to Tyre, and thence into Greece with

28 2 Kings, viii. 22. 39 2 Kings, xiv. 22:

4º 2 Kings, xvi. 6. 41 It is highly probable, from the woe of

42 Scaliger Emend. Temp. Fragm. p. 14. Νειδυχρδούστορος.... τόν το Αρμακόλην ποτειμέν Kilyayo ibra nija; Eutjaria . . . . lavniyio: U und the Egudine Indianous the Intedoors and Topolicies πόλιε ίπτισε κατά τλ; "Αράδων Ιισθολάς,

There feems also to be another canal mentioned by the name of Akrakanus, and a bafon above the city of the Sipparerians; and that these were all formed with a commercial view. eonfine the waters at the mouth of the Tigris "; that he built the city of Terédon, to flop the incursions of the Arabs; and opened the Naharmalca in Babylonia, which unites the Tigris with the Euphrates. These transactions may lead us to suppose that this conqueror would turn his attention to Idumea, and the gulph of Arabia, as well as to the Persian Gulph and Tyre; and if he did, the conquest would have been easy, either when he was in Judea, or during his march into Egypt.

From this time till the death of Alexander we have no account of Iduméa; but foon after that event, we meet with two expeditions of Antigonus directed against Petra; one under Athenèus \*\*, and another by his son Demétrius. Both had an unfortunate termination; but the country was still harassed by the rival sovereigns of Syria and Egypt, experiencing the same sate as Judéa, from its similar situation between both, sometimes subjected, and sometimes free; till there arose a dynasty at Petra, parallel to the Maccabees at Jeruslalem; and, like them, partly independent and partly under the influence of the more powerful monarchies on either side.

we may judge by what Arrian fays of Teredon: "that it was, when Nearchus strived there, the mart to which the merchants "brought their Bannos, and other odorfi-"round drugs, from Arbia". "Arrian, like viii. p. 35". Applant. . . in Memor's r main by privately by it, privan, spaire, was in 2020 for Squigarra 4"Aplant yie ("Pu. This (Jersey's 2) mercantile country may be furpped equivalent to Grane; and the whole corresponds with the taffic which now exists between Grane and Bafra; fo constant is the nature of this commerce, from the time of Nebuchdenezar to the prefeat hour." Hare we not therefore a right to affine a in ages antecedent to the

Babylonian monarchy? The continuance of it in after-times we learn from Nearchus, Strabo, &c.; and when Trajian was here, in the Parthian war, he faw a welfel fetting fail for India, which excited in his mind it he remembrance of Alexander, and a defire of invading India, if he had not been fo far advanced in years, which the india of the regions.

43 It is called the inundation of the Erythrean Sea, and it in reality at Alphadana, in the mouth of the Shat el Arab; in which neighbourhood mounds of this fost are fill preferved. See Voyage of Nearchus, p. 436.

rved. See Voyage of Nearchus, p. 44 Diodorus, lib, xix, p. 501. I give the following catalogue of Sovereigns, as well as I have been able to collect it from Jofephus, without vouching for the correctness of the extract, or fupposing the lift to be complete; but finch as it is, it will clucidate the commerce which has been proved to exist in this country, and bring the history of it down to the peried when the Romans obtained an influence in the government, and the command of the coast; in which state it was found by the Author of the Periplus:

curs before Christ.	The two expeditions of Antigonus into Idumêa, as nearly as we can flate them, were undertaken is
309. 308.	the years before our era, 300 and 308.
	Malchus"-is the first king of Idumêa at Petra, men-
	tioned by Josephus (Antiq. p. 569. Hudfon's ed- and the I Maccabees, xi. 39.): he is flyled Simal-
	cue; and had protected Antiochus VI. reftored to
144.	the throne of Syria, in 144, by Diódotus, called
	Tryphon.
-	A'retas-affifted the city of Gaza befieged by Alexander
126.	Sebina, about the year 126. (Josephus Antiq. 595.

4 Mck, Melek, Malik (Aruka), are all rong to from 1-type, a king (Hebv). In regard to Avenia, for Jofephus, Ilb. zirv. csp. 2. 4, and Ilb. i csp. 6. Bel. Jusi. where he mentions the conduit of Avenia in regard to Hyrenus and Arithoblos. See allo the Univerful Hill. vol. vii. fol. ed. Pilov, vi. 38. Strabo, Dodor, vi. 1, 25f. an. 250. Trajan in Arabin, Dio. xviii. 777. And Severu. Dio in Trajano, page.

Theophanes, p. 124. mentions an Arethas, anno 49 : 556. 558, p. 207.

Perhaps every one of these princes was Ryled Maischon, or Maischas, Ale King; but Dorini in a proper name, though Dana is faid to figuify King, Emperors, or Royal. Si Malcee is some corruption or other of Maischas, Areas is the Greek form of El Herseitch, as Antipater is of Aminpas. El Herseitch occuroften. Mahomet married the daughter of an El Herseitch, Abblieda. Reike, p. 45: Years before Christ. O'bodas \*\*-is either the fame as A'retas, or his fuccessor within the year: he defeated Alexander about the year 125. (Josephus Antiq. 596.)

125.

63.

Aretas II.—is the king to whom Hyrcanus, of the family of the Maccabees, high prieft and king of Judea, fled, when driven out by Ariftobúlus. Aretas reflored him with an army of 50,000 men, about the time that Pompey came to Damaſcus in the Mithridatic war, in the year 63. In this reign commenced the connection of the Maccabees with Antipas, or Antipater, the Idumean, and the father of Herod, which terminated in the deftruction of the whole family. [Joſephus Antiq. 608, 609.] Pompey took Petra (Dio, Latin copy, p. 23.); and from that Period the kings of Iduniea were, like the other kings in alliance with Rome, dependant, obliged to furnish auxiliaries on demand, and not allowed to assume the fovereignty without per-

47.

Malchus II.—must have commenced his reign before the year 47; because in that year Cesar was at Alexandria, and Malchus is mentioned by Hirtius as one of the allied kings to whom Cesar sent for succours. (De Bello Alexandrino, p. 1. Hudson.

mission of the fenate, and afterwards of the emperors. The interval between O'bodas and this A'retas I have not been able to fill up.

<sup>45</sup> O'boden is eritten Obeidas by Strabo, fame name as Abndah, familiar to every ear and O'bedas by others. It feems to be the as an Arabian name.

246

Years before Christ.

39.

Periplus, p. 11.) This Malchus was in Judêa when the Parthians took Jerufalem, and reftored Antigonus; at which time Herod fled to Petra. (Jofephus Antiq. 644.) The Parthians were defeated by Ventidius in the year 39 (Dion Caffius, Lat. p. 235.); and Malchus was fill king in 30 (Jofephus Antiq. 648. 677.); and he is flyled Malichus by Jofephus. (Bel. Jud. 990.)

24.-

Obodas II.—must have commenced his reign before the year 24; because in that year Elius Gallus invaded Arabia, attended by Syllèus, minister of Obodas and Syllèus, was tried at Rome and executed for his treachery, according to Strabo (p. 783.); but Jofephus says, on account of charges brought against him by Herod, whose cause was pleaded by Nicolaus of Damascus. This trial did not take place till the reign of the successor of Obodas. (Jos. Antia, 728, et seq.)

12.

Aretas III.—feized the throne on the death of O'bodas, about the year 12, without applying to Rome for the confent of the emperor (Jof. Antiq. 736.); and by that act incurred the difpleafure of Augustus, which however he appeared. The trial of Sylleus took place in this reign, who was accufed of poifoning O'bodas, and attempting the life of Aretas, among the other charges brought against him. This Aretas, or another of the same name, was on the

<sup>47</sup> He was fined by Ventidius. Dio, lib. xlviii. 234. Lat. ed.

Years after Christ, 36. throne as late as the year 36 after Chrift, which is the laft year of Tiberius; for Vitellius, proconful of Syria, was preparing to march into Iduméa, but was flopped by that event. (Jof. Antiq. 728. 736. 755.) It is in this reign we may place the vifit of Strabo's friend, Athenodórus, to Petra, who found it, as described above, in a civilized and flourishing state.

A'retas IV.—whether another, or the fame as the last, is

Much disappointment have I selt in not being able to discover any successor to Aretas, in Josephus or Dion Cassus; because I have great reason to believe, that in his immediate successor, or in the following reign, we should have found another Malchus, or Malichus, the same who is mentioned by the Periplus as the sovereign of Petréa, when the author frequented the port of Leuke Komè. We learn, however, from this brief account, the commencement of the Roman influence over this government under Pompey, and the continuance of it till the death of Tiberius; and it will hence appear very evident, how a Roman garrison was introduced into Leuke Komè, and the revenues of the port diverted from the possession of the native kings into the Roman treasury. The immediate date of that transaction I cannot fix; for Elius Gallus appears to have had little knowledge of Leuke Komè till be was conducted thinter by Syllëus; and, as he returned from

<sup>48</sup> But in flaid there all the latter part of fo that he might well leave a garrifon there the summer, and the winter, Strab. xvii. p. 781. at his departure.

another port, he had not the opportunity of leaving a garrison at this harbour before he embarked. This makes it highly probable that the introduction of this garrifon was in the reign of Claudius, who evidently collected a revenue from the coast of Arabia, as we learn from the circumftances related by Plócamus, and might well commence his fystem from the head of the gulph.

It may be here observed, that the princes of this dynasty at Petra are almost universally called kings of the Nabateans by the historians; and the prevalence of this tribe of Nebaioth over the Idumeans is placed by Prideaux 49, with his usual accuracy, during the Babylonish captivity, agreeing admirably with the existence of their fovereignty in the reign of Antigonus, and countenanced by Strabo. 10, who mentions the expulsion of the Idumeans. If this, therefore, be the origin of the dynasty, its termination is in the reign of Traian, when Petrêa was reduced into the form of a Roman province " by Palma ", his lieutenant ". Still, under the

49 Prideaux, Con. vol. i. p o ; vol. ii. p. 155. lake near the Euphrates [fee d'Anville's Man. of the Euphr, and Tiggis 1; and thefe Arabian powers feem usually to have been fet in motion by the Romans and Perfians, whenever a war was about to commence between the twoempires. See Theophanes Byz Hift. p. 406. Univers. Hitt. p. 272. fol. ed. which favs. A'retas is Al Hareth. O'bodas, Abd Wad. Theophanes expressly mentions the defeat of an A'rethas, and the restoration of the tribute, or cuftom, on India goods, anno 27, Anaftafii, that is, the year 488. See also the year e.c. p. 202. where an A'rethas, the sheik appointed by the Romans, complains of the Persian theik Abar, fon of Al Mondar; another A'rethas, was with Belifarius in Ifauria. Procop. Hift, Arean. p. 8.

<sup>50</sup> Strabo, lib. xvi. p. 760.

<sup>51</sup> Under the name of Palæstina Tertia: there is a coin of Adrian's.

<sup>52</sup> See Xiphilinus Ed. Bafil. p. 553. in Trajano, who mentions likewife, p. 557. that Palma was afterwards put to death by Adrian.

<sup>52</sup> It is evident that the Roman power was never very firm in this province, at least under the latter empire; for Justinian was obliged to fubdue it after a confiderable lapfe of independence; and Procopius, Cedrénus, and Theophanes, conflantly notice an A'rethas, either at Petra or in Iduméa, who was confidered as an Arab fovereign in the Roman interest, in opposition to an Al Mondar under the protection of Perlia. The feat of this Al Mondar was at Hira, on the Bahr Nedjeff, a

latter empire, we meet with an Aretas in Procopius; and possibly, according to the fluctuating power of the empire, it was at times fubject, and again independent, according to the change of circumftances, till it was finally reduced by Mahomed in person. This is a fact fo fingular that, as I shall make it the termination of my inquiries, the reader will pardon a digression that is foreign to the fubject. For Mahomed marched against this country with an army of thirty thousand men, of which one-third was cavalry; he took Hagir ", the capital of the Tichamudites"; and John, the prefect of Aila16, fubmitted to pay a tribute of three hundred pieces of gold ". Now if Hagir be not the Hagar of the Hebrews, the Petra of the Greeks, it is at least a hill fort in the same country, and maintained the same rank as the seat of government. Aila is the Elath of the scriptures, still at that period under the power of Constantinople (if we may judge from the name of John the governor), fo late as the reign of Heraclius. This expedition is the more remarkable, as it is the first successful attempt of the Mahomedans beyond the limits of the Hejaz st, and the prelude to the conquest of Syria bν

Ophir.

<sup>54</sup> Sce note 17. 25 The Thamydeni of the Greeks. se Abilfeda Reiske, p. 52.

<sup>57</sup> Trecentos nummos aureos. If it is the Roman aureus, the yalue varied, according to Arbuthnot, from 17. 4s. 31d. to 161. 11d, which admits a medium of twenty shillings.

of Mahomet, or in amplifying his courage, his eloquence, and abilities as a statesman or a

general; but at the same time, notwithstanding this defect (which is radical), and notwithstanding the detestable comparisons which he infinuates, the extent of his refearch, the use, selection, and arrangement of his mate-Alla was no longer the port of the trade of rials, form one of the most brilliant specimens of his takents as an historian. In reward to

<sup>58</sup> See Gibbon, vol. v. p. 245. The fuper- this last transaction of Mahomet, I apprehend fittion of a birot never went to greater excels. Gibbon is millaken : he favs, the prophet rein defence of his faith, than the fanaticism of ceived the submission of the tribes from the ubilosophy has carried Gibbon, in softening Euphrates to the Red Sea; but according to the vices, cruelty, hypocrify, and imposture, Abilfeda, he subdued Hagir and Aila only;

by the immediate fucceffor of the prophet. This expedition, therefore, it was, which opened the way to all their fucceeding victories over the declining power of the Romans in the eaft.

This account of Arabia Petréa, from the time of the Patriarchs to the rife of the Mahomedan power, is effeutially connected with the object of the prefent work; because the whole commerce of the east originally passed through this province to Phenicia, Tyre, and Egypt; for the Minêans, who were the conductors of the caravans from Sabéa to Hadramaut, and the Gerrheans from the gulph of Petria, both pointed to this centre; and notwithstanding that the caravans decreased in proportion to the advance of navigation, still Petra was a capital of consideration in the age of the Periplus: there was still a proportion of the trade passed from Leuké Komè to this city, and its princes maintained a rank similar to that of Herod in Judéa. In all the subsequent suctuations of power, some commercial transactions are discoverable in this province; and if Egypt should ever be under a civilized government again, Petréa would be no longer a defert.

Whether the Iduméans had been navigators previous to the time of Solomon and Hram; and whether those princes occupied the ports of Iduméa in order to turn this navigation to their own advantage, or were the first to venture on it themselves, must be a matter of conjecture; but that the Arabians of this province, or more probably of those farther to the south, were the first navigators whom history mentions, upon the Indian Ocean, is evident: first,

and if the tribute was no more than 300 unrei, the comment was of importance only as it was related to being the compense after made to Syins. See Abiliteda, Gazz, the key of the defert of Sina, a Reitke, Liptur, 1754, p. 52.

from Nearchus", who found the traces of it on the coast of Gadrosia; and, secondly, from Agathárchides, who distinctly mentions the great ships in the ports of Sabèa which traded to India; and if the works of Eratosthenes" were extant, we should learn how the Greeks obtained their knowledge to the east of Cape Comorin, before any fleets had failed from Egypt beyond the Straits of Bab-elmandeb.

But whatever previous fources of information we might trace, it is from the Periplus itself that we can discover no lefs than fix different courses of the ancients in these seas, all prior to the age of the author, or practited by different navigators at the time he wrote.

#### IV. VOYAGES DISTINGUISHABLE IN THE PERIPLUS.

 THE first is the voyage, described in the two previous books, down the coast of Africa to Rhaptum; shewing that the Arabiana had settlements in that country, before it was visited by the Greeks from Egypt.

Timosthenes, who had commanded the fleet of

do He found Arabick names of places, a pilot to direct him, and veffels of the country, at Apostani, in the gulph of Persia. See

Voyage of Nearchus, p. 351.

\*\*Marcian of Heracles informs us, that
Existofilhers tools the whole work of Timofiheres, preface and all, as it flood, and in the
very fame words: this confirms an opinion
that I have already ventured to give, that
Extaolithers was more of a geometrical than
a geographer. Marcian, indeed, does not
flook very highly of Timofiheres, and yet,
by this account, it flooded from that Extaoliheres's knowledge of the Thins was from

Plolemy Philadelphus on the Indian Ocean, and had gone farther down the coast of Africa than any other Greek of his age. See Marcian in Huddon, p. 64: he calls him. Approxyriew of Jorge Herburden. Strabo thyle him Nawappe. See Pliny, Hardouin, p. 133. Marcian mentions likewife Sofander,

p. 13.2 Marcian meations likewife Sofander, a pilot, who wrote on India. Still there is an obfeure knowledge of the Thinag, and the Golden Cherfonefe, prior to all thefe geographers, as appears from the Treatife de Mundo in Ariftotle, if that be a genuine work of the philosopher.

II. Secondly,

II. Secondly, we are informed of the two diffinct couries within the Gulph: one from Myos Hormus, across the head of the gulph to Leukè Komè, and thence down the Arabian coast to Mooza; and another, from Berenisè to the same port direct.

III. <sup>63</sup> Next to this, we collect a voyage from the mouth of the Straits along the fouthern coast of Arabia into the gulph of Persia, extending afterwards to Bahrein, El Katif, and Oboleh, in the Shatel-Arab.

IV. 4 Then follows a paffage from the Straits to India by three different routes: the first, by adhering to the coasts of Arabia, Karmánia, Gadrósia, and Scindi, to the gulph of Cambay; the second, from Cape Fartaque, or from Ras-el-had, on the Arabian side; and the third, from Cape Gardesan, on the African side, both across the ocean by the monstoon to Muziris, on the coast of Malabar.

V. After this, we must allow of a similar voyage performed by the Indians to Arabia, or, by the Arabians to India, previous to the performance of it by the Greeks; because the Greeks, as late as the reign of Philométer, met this commerce in Sabéa.

VI. And laftly, we obtain an incidental knowledge of a voyage which confirms all that has been advanced concerning the early commerce of the Arabians, previous, in all appearance, to every account we receive from the Greeks, and conducted, certainly, by the monfoon, long before Hippalus introduced the knowledge of that wind to the Roman world.

<sup>61</sup> Periplus, pp. 12. 14.

<sup>63</sup> Periplús, pp. 19, 20.

<sup>64</sup> Periplus, pp. 20, 21, 22, 32. 33.

<sup>65</sup> Agatharchides apud Hudfon, pp. 64,

<sup>66</sup> Periplûs, pp. 8, 9

It is the voyage between the opposite coasts of India and Africa, connected certainly with the commerce of Arabia, but ftill capable of being confidered in the abstract, and proving, in my opinion at least, the possible existence of this intercourse in ages antecedent to all that history can reach. If it could be believed that the natives of India had been navigators in any age, we might more readily admit their claim in this instance than in any other; for the author mentions, that the imports into Africa are the production of the interior, from Barugáza and Ariakè; that is, from the coast of Cambay and Concan: and the articles specified confirm the truth of his affertion; for they are, rice of, ghee, oil of fefamum, cotton, muslins, fashes, and sugar: these commodities, he adds, are brought fometimes in veffels destined expressly for the coast of Africa; at other times, they are only a part of the cargo out of veffels which are proceeding to another port. Thus we have manifefuly two methods of conducting this commerce, perfectly diffinct : one, to Africa direct; and another, by touching on this coaft, with a final destination to Arabia. This is precisely the same trade as the Portuguese found at Melinda and Quiloa, and the same connection with Arabia; and this is the reason that the Greeks found cinnamon, and the produce of India, on this coast, when they first ventured to pass the Straits 42, in order to seek a cheaper market than Sabêa.

47 Periplits, p. 9.

48 Periplits, p. 9.

48 γε/ς, Rice.

50 γε/ς, Rice.

50

τιμένωματω, Saftes.

μέλι το καλαμωνος,
το λογόμου σακχαρμο,

68 The patting of thefe firaits is aferibed to
Sefofirs by Heródotus and Diodorus, which,

The patting of their firate is attented to Sefoftris by Heródotus and Diodórus, which, if the whole history of Sefoftris be a fable, is fill a proof that Heródotus knew some object was to be obtained by the attempt. He adds

Still it must be doubted, whether this commerce was conducted by natives of India, or Arabians; for Arabians there were on the coast of Malabar, and in such numbers at Ceylon, that Pliny " represents them as masters of the coast, like the Europeans

(lib. ii. p. 109.), that Sefoffris advanced into the Erythrean Sea till he was flooped by fhoals; a proof to me, that he entered the Bay Avalites, and went no farther. But Diodoms (lib. i. p. 64.) carries him by fea to India, and by land, to the eaftern coast of China: fo little trouble does it coft an hiftorian to convey his hero to the world's end, when he is not emharraffed with circumstances. If any date could be affixed to the reign of Sefoffris, if his conquefts could be reconciled with the hillory of the nations he is faid to have conquered, I should think it highly probable that he knew of an Indian commerce in Arabia, or Africa, and wished to partake of it : and even as the fact flands, it appears as if Herodotus was fully justified in supposing, that fome attempts had been made by the Egyptians to enter the Erythrean Sea. the Egyptians frem to have attributed all their wonders to Seloffris, as the Grecks did theirs to Hercules; and it is as difficult to reconcile the date of his reign to reason, as the chrosology of the Egyptians to fcripture. The truly learned and most excellent translator of Herodotus professes his belief in scripture, and deprecates all conclusions against the feriptures which may be drawn from his chronology: it is a protest of importance, because his first date makes the establishment of Egypt 13,566 years, and the huilding of Memphis 8,452 years prior to the creation, according to the Molaical account; and it is not with .. out a fense of the contradiction that we read the following words: " Il eft done confiant either when Idulators or Mahometana.

" one notre hiftorien a été le fidèle interprete " des prêires Egyptiens, & qu'il n'y avoit par " la bles legere incoherence dans leur recits." Chronol Herod. p. 222. 1 Cdit. But M. Larcher will not now be averle to fee thefe pririts convicted of an incoherence, which is, an interval of near eleven thousand years between the building of the Temple of Ptha by Menes, and the adding a propyleum to it by Mocris. This is about a duplicate of the abfurdity which would firike the mind of an Englishman, if he were told that the dome of St. Paul's was built by Adam, and the portico added by O. Anne.

Since the time that thefe observations were made, we have another edition of Heródotus by the fame execlient translator, who, in the 76th year of his age, repeats his belief in the feriptures, and recalls every thing in his works that may feem of a contrary tendency to the history they contain. I rejoice in the addition of such a name to the catalogue of believers : I admire the fortitude that infpired the profession, and I trust that the example will be efficacious in recalling others to the truth.

69 Pliny, lib. vi. c. 22. Regi, cultum liberi patris, cateris, Arabum ; that is, the king retained the native worthip of the Indian Bacchus, above the Ghauts; while the inhabitance on the coast were Arabians, or had embraced the inperfition of the Arabians.

The Portuguese made a Christian king of Candy; but the Dutch and English have been less zealous for their faith than the Arabians, of the prefent day, who have confined the native fovereigns to the country above the Ghauts, and have poffeffed themfelves of the level towards the fea; fuch allo was their fination, though under the name of Moors, or Mahometans, when the modern Europeans met with them again upon their arrival at Calicut, where their influence over the native government long counteracted all the power of the Portuguefe.

These are the reasons which induce a supposition, that the whole of this intercourse, on both sides, was in the hands of the Arabians?, but it must be left to the determination of those who have been resident in India, how far the superstition of Braminism descends to the Parias, the lower casts, or those who have lost all cast, so as to permit or forbid their venturing on the ocean. That there was an ulterior commerce? beyond Ceylon, is indubitable; for at Ceylon the trade from Malacca and the Golden Chersonese met the merchants from Arabia, Persa, and Egypt. This might possibly have been in the hands of the Malays, or even the Chinese?, who seem to have been navigators in all ages as universally as the Arabians, and both might profit by the prejudices which seem to have excluded the Hindoos from a participation in these advantages.

There appears no method of tracing this commerce through the darknefs of the middle ages, but by the few featered intimations to e collected from Cofinas, William of Tyre, Sanuto i, Renaudot, Arabian Voyagers, and Marco Polo; but their general teftimony is

p. 291. of Indian thips, but they feem to be Chinefe.

73 See Bergeron Traité fur la Navigation.

<sup>&</sup>lt;sup>76</sup> I find this connection of Arabians with 10 Pliny, when he mentions the embaffy India fupported by Pococke, Sir Wm. Jones, from Ceylon. and Sir Wm. Outfeley. See Ebn. Haukâl, 2\* Marco Polo, lib. iii. c. r. fpcaks much

in favour of the preceding suppositions, and which, as I have no fystem to maintain, I should abandon as readily as I have adopted; if ever the weight of evidence should preponderate against them. In the time of Marco Polo, the Arabians had not only encreased on the coast of India, but made considerable progress in extending the doctrines of the Coran: he mentions the trade from China? which met the trade from the Red Sea, no longer in Ceylon, but on the coast of Malabar; and though he remarks that the Chinese vessels sometimes penetrated farther, even to Madagascar, yet the central mart is manifestly in Malabar, and apparently at Calicut, where the Portuguese sound is upon their first arrival. Here, he says, the ships from Aden obtained their lading from the East, and carried it into the Red Sea for Alexandria, from whence it passed into Europe by means of the Venetians.

#### THE COMPASS.

V. How these voyages were performed in the seas of India or China, without the compass, is a circumstance so extraordinary, that many writers have rather affigned that instrument to the Chinese, than supposed it possible that such voyages should be performed without it. Highly extraordinary it certainly is, that the Chinese, who now never go beyond the limit of Japan on the east, Malacca on the west, or Java on the south, should have sailed to Madagascar in the thirteenth century; their knowledge must in that age have

<sup>26</sup> Lib. iii. c. 27. In the 9th century, the perumal, the trade centred there. M. Polo age of Renaudot's Arabs, the centre was at was in India in the 13th century, 300 years Coulam in Travancore. After the eflabilish later than Ceramperumal. ment of the kingdom of Calcut by Ceram.

been proportioned to their adventures; and I would not wish to contest the point with those "I who would furnish them with means re infiruments to qualify them for the undertaking; but Ramusio" is clearly of opinion, that Marco Polo did not bring this infirument from China; and that he did not know it himself, because he never mentions it. This negative evidence in regard to China, becomes positive, according to Nicolo di Conti, in regard to India; for he sailed aboard a native vessel on the Indian seas, about the year 1420"; and he says expressly they had no compass, but sailed by the stars of the southern pole, the elevation of which they had the art of measuring; and that they had also a method of keeping their reckoning by day or night, with their distance from place to place; that is, as we should speak in modern terms, they had a quartersaff or aftrolabe, and log, but no compass.

The date of this voyage, fixty or eighty years previous to the difcovery of Gama, makes it highly interefting; and the information is unique, for Nicolo failed on board an Indian." flip; and that the navigators made use of the south polar stars, is a most extraordinary, agreement with the account of Ptolemy; who says, they navigated

<sup>73</sup> Lord Macartney is fully convinced that the Europeaus: his reafons for this may be feen in a paper with which he has furnished me (Appendix, No. 1.); and has obligingly permitted me to publish with his name.

<sup>76</sup> See Dichiaratione fopra M. Polo, Ramufio, vol. ii. p. 17.

<sup>7?</sup> He was abfolved by Pope Eugenius IV. in 1444 of apollacy, after having been in India 25 years; fo that the date of his voyage, in this inflance, may be from 1420 to 1430.

78 Il naviganti dell<sup>5</sup> India fi governano colle

ftelle del polo antartico . . . & non navigano

col Bussino, ma fi reggono fecondo che tromon le diste felle o alte, o baffe; et quebo fanno con certe lor mifure che adoperano, et fimilmente mifurano il cammino che fanno di giorno et di notte, & la difiauza che e da na luogo all'altro, et coli feripre fanno in che luogo fi ritrovano effendo in mare. Ramutio,

vol. i. p. 344

If fimiliante refers to the preceding clause, it means that they kept their reckoning, not yet he log, but by the stars, which is, in that case, a knowledge of finding their longituda

as well as their latitude by aftronomy.

the Indian Ocean in his age by means of the star Canobus, which they called the Horfe. I should have been glad to find the mariners on board this ship had been Arabians; but the description of the veffel is characteristically like those which M. Polo sailed in on the Chinese seas, separated into compartments, which the respective merchants on board hired each for himself and his property; and which were diffinctly caulked, fo as to prevent a leak in one part affecting any other: fuch veffels are still in use on those seas, but are more properly Chinese or Malay, than Indian.

The testimony of N. di Conti is direct against the use of the compass in the ships of India, but still it is not conclusive against the Chinese: for Vertoman, or Barthema, in his passage from Borneo to Java, in a ciampan, or fmall Chinese vessel, expressly mentions, that the pilot " had a compass. And this testimony is of greater importance, because the date of his voyage from Borneo must be in 1503 or 1504, as he returned to Calicut in 1506, when Almeyda was viceroy. Now 1504 is feven years previous to the arrival of the Portuguese at Malacca: so that the Chinese could not have had it from the Portuguese; and if the ships of India had it not, they could not have received it through that medium of communication. There is fomething very strong, likewise, against their receiving it from the Arabs, whom they might have met at Calicut in the fifteenth century; because, if the Arabs then used it," it was in the form they derived it from Europe, and divided into thirty-

diftinctam, qua ventorum rationem infinuant, between 32 and 48 points. fecum, more nostro attulerat. Grynneus in Barthema, lib. vi. c. 27. Ramufio, vol. i. p. 168. More nostro (I think) refers to the fea card;

<sup>79</sup> Moderator navis pyxidem, magnetemques but if to the whole, it does not quite prove nec non paginam marinam, compluribus lineis whether Barthema had marked the difference

so The Portuguese reached Malacca in 1511. Dalrymple, p. 3. Collections.

two points; whereas the Chinese compass is divided into forty-eight, which seems almost conclusive that theirs was an original instrument, and not derived from Europe.

#### WEALTH OF ARABIA.

VI. AFTER the recital of these circumstances, it is still to be confidered, that in the whole of what has been faid, it is intended to fpeak only in general terms; it is not meant to affert, that no fhips went to India from Egypt before the reign of Ptolemy Philomêtor. or that no Greeks, in a later age, paffed beyond Ceylon to Bengal, or the Golden Chersonese; but that the ordinary course of Oriental. commerce was conducted in the way that has been flated, there is every reason to believe, and every evidence that is extant to prove. The value of this commerce, in the hands of the Arabians, is equally evident: their wealth was proverbial, and the particulars of it are detailed by Agathárchides. But there is still one point. in which the Arabians are effentially diftinguished from all the furrounding nations, which, through their means, partook in the commerce of the east; which is, that however oftentatious their neighbours might be, the riches of the Arabians were all applied to their private luxury and indulgence. In Perfia, and Chaldea. those vast public works and edifices arose, which astonished the travellers of the ancient world; and in Egypt, the ruins of the Thebaid are an equal cause of amazement at the present hour. In a fecondary rank, Tyre, Jerufalem, Baalbeck, and Palmyra, furnize us with their magnificence; while in Arabia, history speaks only

of one public work, which was the Tank 31 at Mariaba; and when the head of that once failed, there never was sufficient industry or public spirit in the country to restore it.

No adequate cause is affignable for this national distinction, but that spirit of independence which broke the body of the people into parts too minute for a combination of interests, and too diffuse for co-operation. This spirit was never counteracted but for a short time by enthuliasm; and no sooner was that exhausted by evaporation, than they returned again to the flate in which they are defcribed by the ancients. They are still a nation of merchants 52 and marauders, incapable of fubjection, not less from their temper and habits than from the nature of their country; rarely formidable in a body, from their mutual jealoufy and diffruft; indifferent foldiers, but dangerous partizans.

No other reason is discoverable, why a nation that at one time poffesfed almost exclusively the commerce of the East, never arrived at a character of dignity and respect; and no other cause can I trace, why Idumêa became so easy a conquest to the Hebrews, Tyrians, Babylonians, and Romans. It is the influence over their government, and the possession of their harbours on the Red Sea by the Romans, which is now to be inveltigated; and if the command of the commerce obtained by this power continued with little interruption till the time of Justinian, and was not annihilated till the

82 Strabo and Diodorus are in concert with

at This Tank is placed at Mariaba; but in the time of Alexander; others fay, after Pliny informs us, that Mariaba fignifice a Christ. Univ. Hist. fol. ed. vii. p. 276. capital; fill we have in Reifke, Maraba, the fame as Saba; fo that the Tank will mark Pliny, who fays, lib. vi. p. 340. Pars æqua Saba. See Reiske in Abilfedam, voc. Jemana. in commerciis et latrociniis degit: a fact The Tank failed, according to fome authors, equally true in all ages,

irruption of the Mahomedans, it is a duration of this commerce in one channel, longer than has fallen to the lot of any other people in whose hands it has been placed.

## LEUKÈ KOMÈ.

Our inquiry commences with Leukè Komè, or the White Village\*; and the character of White is attributed to feveral towns or villages on this coaft. Ptolemy has an Argè Komè below Yambo; Haûr is another place, about three hundred miles from the head of the gulph; and a third, Haûr or Havarra is difcoverable in the Itinerary, but forty-five miles from the fame point. All these terms imply whiteness; but d'Anville assumes the second for the Leukè Komè of the Peripiûs. In this he is justly supposed by M. Gosselin to be mistaken; because this second Haûr, at more than three hundred and fifty miles from Petra, could not afford a ready communication with that capital, neither could it be within the limits of Petrèa, but must then have belonged to Hejaz; which, that it did not, we shall have sufficient proof in the expedition of Elius Gallus.

M. Gossellin fixes upon Moilah; to which he is, perhaps, more particularly directed, by finding a name of notoriety in a fituation that is probable: but on this coast, as he has very properly observed himself, there is no certainty to be obtained; the ancients have left us few marks of diffinction, because they avoided the coast, which was itself dangerous, and more dangerous still from the difficulty of its inhabitants; while the few notices which they have

<sup>\*3</sup> Almost every place inhabited by Arabians, is rather a village than a town or city.

left, are obliterated by the retreat of the fea, and the increasing advance of the shore. This arises from a cause which operates on the whole eastern fide of the gulph; and in the lower part of it there are the remains of places twenty miles inland, which were formerly marts or harbours.

This must be accepted as a reason why so little satisfaction can be given in regard to individual politions. The general character of the coast, and the division of the provinces, will be diffinct; but identical locality is by no means to be expected. This will be apparent in the immediate object of our inquiry, for the White Village itself is obscured by difficulties not easy to be furmounted.

						Lat.	
The Haûr of d'Anville 14	is in		-	-	25°	2′	o"
The Moilah of d'Anville,	in -		-	-	27°	30'	o″
The Moilah of Goffellin,	in his l	Map of 1	Ptolem	у	27°	50'	0″
A V CD	11	( Latin t	ext	-	22°	40	٥"
Arga Komè of Ptolemy,	by the	Greek	text	_	220	30'	o″
n				4		٠.	

But that there is still another Hauara, Avara, or Havarra 3, we

and De la Rochette. Still, whatever be the errors, it is curious to fee both thefe routes detailed at the extremity of the empire, in the reign of Theodofius; and the shorter 25 But I am apprehensive that I read 20 the distances are, the more incompatible they are with the Haur of d'Anville. (See d'Anfrom Haila to Hauarra, and 38 from Hauarra ville's Egypt, p. 120. with his opinion of the to Petra. The latter diftance must, in that Itineraries.) There is a fimilar diminution of case, affuredly be erroncous; and the former diffance from Phara, or Ras Mahomet, to too, unless the fea of Acaba be as short as Haila, which the Itinerary makes only 16. it is represented in the ancient maps, in- miles; and both deficiencies, if they are such, flead of running up to the north to far as must be imputed to the supposed shortness of

<sup>44</sup> The Haûr of d'Anville is afcertained by Al Edrifi to be lower than the illand Naman. p. 100; a proof that it cannot be the Hauarra of the Itinerary.

twice instead of once; if fo, it is only at miles it does in the maps of d'Anville, Goffellin, the fea of Acaba, i. c. the Elanitick Gulph.

are certain from the Itinerary; and Stephanus to informs us, that it was founded by A'retas fon of O'bodas, and called Aúara (which fignifies white in Arabick and Syriack), from fome vision of a man in white. Pliny adds, that Arra to is in the country of the Thimanei, the adjoining tribe to the Nabateans, and that here is the centre of commerce. Upon these authorities I had wished to have placed this Havarra on the coast, and to have assumed it for the fite of the White Village; more especially as the Itinerary of the Peutingerian Tables points to the entrance of the Elanitick Gulph, and has one route of fixty-one miles from Aila to Havarra, and another of thirty-eight ", from Havarra through Zadagasta to to Petra.

86 See Stephanus Byz. in voce.

87 Arra oppidum in quo omnis negotiatio convenit. Plin. vi. c. 28. The Thimanei are the Bythimanees, or Batmizomanees, of Agatharchides, and upon the coaft.

\*\* I am not certain that I read the distances right; but they appear thus;

ignt; but the	y appear the	16:		
-			Mil	es,
From Clyfm:	a to Medeia	-	- 4	0
· .	to Phara	-	- 8	0
			-	- 120
	to Haila	-	- 5	0 -
			• -	- 50
	to Ad Dia		- 10	6
	to Posidiun	ı	- 2	I
	to Havarra	- '	- 24	4
			٠,	- 61
	to Zadagat	ta.	- 20	э.
	to Petra	-	- 18	3
				- 38
	0.00			260

Clyima, for both are noticed, but there is no number between the two, and offyina is placed on the cathern side of the gulph, not on the weflern, as in at 'Anville. But if the numbers we have, express the feast of the author, then we must add a third at least; and, by the fame proportion, a third from Prara or Ras Mahomed to Halls, making that nearly 67 B. miles; a diffiance that agrees neither with d'Anville or De la Rochette, for both make it near 110. I have always lappofed this difficance much too large; and if Irwin's Chart might be depended on, my judgment must be right. Irwin is the only traveller I have met with who has entered the Elankied.

Gulph; but though he speaks of the head,

compaffes gives precifely 200 Roman miles from Suez to Ras Mahomed, by d'Anville's

map: 180 m. En. by De la Rochette's: 225 by

Capt. Cook's Chart. When we find therefore

only 120 miles in the Itinerary, we must suppose

that a diffance is omitted between Arfinoè and

If by Clyfma we are to understand the head he does not quite say that he saw it of the gulph, or Suez, the opening of the "P The Zaanatha of Ptolemy."

But in opposition to this we have the express testimony of Ptolemy\*, that Avarra is inland, and more northerly than Aila. This reduces me to the necessity of concluding, that this Haûr, or Havarra, cannot be the White Village of the Peripsits; so that neither the Haûr of d'Anville, the Argè Komè of Ptolemy, or this Havarra of the Itinerary, will answer our purpose. But there are some circumstances in Agatharchides, which will lead us to a situation where such a port feems to be pointed out, in preference to any other on the coast.

#### VII. THAMUDÉNI AND CANRAITES.

This author, at the entrance of the Elanitick Gulph, has three islands: one, facred to Ifis; and the two others called Sookabúa and Salydó. These islands, after having been loft for twenty centuries, have been reftored to geography by M. Irwin. He is the only voyager, as far as I can discover, who has ever entered this bay; and if his chart may be depended upon, he went up it five-and-twenty miles: in confequence of this he saw these islands, and has named them Tirán, Sanafir, and Barkan. I have never seen "they bear such testimony to the sidelity of Agatharchides, that he deserves credit when he adds, that "they" cover several harbours

9° See Tab. Afize, iv. and lib. v. c. 15.
Elana - 26° 15' 0"
Avara - 29° 40' 0"
Still there is a confution; for the Greek text

Elana - 29° 15'
Avara - 29° 20'
But, after all. Avara is north of Elana

fays.

31 The names are in Niebuhr, but the position is erroneous. One island is still called Johna by De la Rochette.

"on the Arabian shore" [as the Zasfateen Islands protect the port of Myos Hormus]; and one of these harbours, I conclude, must be the Leukè Komè of the Periplûs; for he adds, "to these islands succeeds the rocky coast of the Thamudeni, where, for more than a thousand stadii, there is no harbour, no road where a vessel can anchor, no bay to afford protection, no scrap of a projecting point, to which the mariner can sly for refuge in a moment of distress."

However the colouring of this picture may be heightened, the general description is true, as may be seen by a reference to M. Irwin's Journal, from the 22d of June to the 9th of July; where we have every day iflets, breakers, shoals, fands, and sunken rocks, with the mention of only one cove where the shore could be approached. The refuge his Arabian boat found, was generally under islets; but a navigator, who did not dare approach the shore, might well paint it in the same colours as Agatharchides has done. Irwin carries Moilah fifty miles more to the north than it appears in other charts ", and within the Elanitick Gulph: if this be true, my conclusion is perfectly in correspondence with that of M. Gossellin; and if, by taking different methods, we both arrive at the same conclusion, it must be a strong confirmation that the point we have both fixed on is right; for a fafe anchorage at Moilah, covered by the islands, and the unapproachable nature of the coast below. fix Moilah to a certainty for the Leukè Komè of the ancients.

τατος ά γλη ίττε... ο λιμεύ ένομεις, ε σάλος δε αγκύρας, εί κάλτος επισευεύς, εί χελτίς δετύπιμα, είκεγεία καταφογή, του κατειλόμειου δεχόμειο. Agatharch, apud Hudfon, p. 59. Χελτίς δετύπιμα is a dubious expreffion; for

though xnhh is the foot of a wall, or rather loofe flones thrown into the fea to break the waves and protect the majoury of a pier, brid-

ways does not occur in the Lexicons: it may be the form, the industars at the commence ment of a projection. Unlefs the author aimed at a metaphor, by taking you's in its fenic of a hoof, and to intended to mean the imperfion of a hoof; but in this fenic the metaphor is not juff.

93 P. 143. oft, ed, vol. I.

#### VUI. BURNT ISLAND, MOOSA, COAST OF YEMEN.

FROM Leukè Komè to the mouth of the Straits, a course of more than a thousand miles, we have only two places mentioned-the Burnt Island, and Moofa: a proof, as it should seem. that this track was little frequented; and yet the author, by fpeaking in the first person, seems to have performed the voyage himfelf. The dangers he defcribes at large, much in the fame manner as we have already reported them from Agatharchides; and the tribes, he fays, which inhabit this tract, are numerous; fome fpeaking a language perfectly diftinct, and others a different dialect of the fame. Those on the coast live in huts or cabins, like the lethyophagi; and those who are inland, are a treacherous " race, living in hordes or villages, and fpeak two different tongues. If a veffel is driven to this shore, she is plundered; or if shipwrecked, the crew is reduced to flavery. The general name of these tribes is Canraites: and they are treated as enemies, and feized for flaves, by the other regular governments of Arabia. But it is not only the disposition of the natives which makes the navigation dangerous; for the coast itself is without harbours or roads, full of rocks, shoals, and breakers, and dangers of every fort; for which reason, in going down the gulph, we ftand off from shore, and keep our course down the middle of the gulph, very defirous of reaching [the

94 manpais aufporting diffunces. Supposed by Bochart to be Caulanites .-Mecca and Sana. Phaleg. p. 143.

stands thus: did xail is whiteray, pierce white mare-

χομει, καὶ ἐις τὰν Αραδικών χώραν μάλλον ΠΑΡ-OSYNOMEN, and to saturesaumore Night. Caulan, a province and mountain between I had very much doubted of the construction of this paffage, when I cited it in the voyage 95 The word is mapaginapas. The fentence of Nearchus; but I am now perfuaded, that by confidering ApaCixis yapas as the civilized

more civilized part of l Arabia, which commences about the parallel of Burnt Island, and continues down the whole coast to Moofa. this tract the inhabitants are under a regular government, leading a pastoral life, and raising wast herds of oxen, camels, and other stock. Moofa is an established mart of great trade, in a bay near the termination of the gulph, at the distance of twelve thousand stadia, or twelve hundred se miles from Bereníke; and the whole [of this part] of Arabia abounds in merchants and mariners, both mafters of veffels and common failors, and is commercial in the highest degree. The commodities of the country are rich and numerous; but belides thefe. there is a great traffic [in India articles] from Barugaza, or Cambay, Inland from Moofa, at three days distance, lies Save or Saue, which is the feat of Cholébus, the king of the diffrict called Maphartis; and nine days farther inland is Aphar or Saphar, the residence of Charibáel, paramount both of the Sabêans and Homerites. This is the fovereign to whom the Roman emperors address their embassies. and whose friendship they conciliate by presents of various forts. and confiderable value.

We have here a general divition of Arabia corresponding to the modern distinction of Hejaz and Yemen, as nearly as can be expected after an interval of eighteen centuries. The northern part, occupied by Bedoweens, robbers, and marauders, living under tents

part of Arshill, that is, Yemen or Sabéa, the whole difficulty is removed; and the ulage of 'Appless' in the fame feafe twelve lines lower, juilifies the interpretation; for, or hab Sab 'Appless' muxtanguis dedystem and narration rations ("and on not refer has to the abole of Arshis, but to the whole of Sabéa, as it is evident by the context.

55 This is very accurate, reckoning the passage across the gulph, first to Leukè Komè, and then down the gulph to Moosa.

97 Hudion renders this passage as importing presents made by Charibáel to the Roman emperors; but in a following passage the presents from the Romans are specifically mentioned, without any notice of a return.

in hordes almost without towns, villages, or settled habitation of any fort; while the southern part is in a civilized state, highly cultivated, polished, and commercial, and under a regular form of government, such as Niebuhr sound at Sana within these thirty years.

The limit of Hejaz, or Arabia Deferta, is fixed by d'Anville in lat. 17° 12' 0" 28, which gives it an extent of coast of near seven hundred and fifty miles, while there remain but little more than three hundred within the firaits affignable to Yemen, or Arabia Felix. The northern part of the first division is that which answers more particularly to the dangerous coast described by the ancient authors, and explored by Irwin, terminating at Hassan Isle, in lat. 25°; to which fucceeds Yambo, the port of Yathrib or Medina, and Gidda or Judda, the port of Mecca, the Maco-rabba or Great Makka of Ptolemy. This appellation proves that it was a place of consequence in that early age; and history shews that there is hardly a place which deferves the name of city, except Mecca and Medina, in all that space which geographers allot to Arabia Deserta, across the vaft peninfula, from the Red Sea to the Persian Gulph and the Euphrates. The numerous tribes which inhabit this defert are the Saraceni of the ancients, fo called from Saharra " or Sarra, a defert, and corresponding exactly with the modern term of Bedoweens. In what sense this country is a desert, was unknown to the ancients, and is almost equally unknown to us; but that it is not arid, so as to preclude the produce of the earth, is evident from the swarms which these tribes furnished in the early period of the Mahomedan

conquests.

<sup>98 19° 6′ 0″</sup> Niebuhr; 18° 0′ 0″ De la Rochette, Bedjiah is Campania. trices ex al Bedjiah (*i. e.* campania) Meces Bedjiah (*c. e.* campania) Meccam ire.

conquests, and from the consideration that every Arab is a horseman. Little as will suffice to support an Arab and his horse, both must be fupported: if little corn is fowed or confumed, still those who live on the product of their herd must find pasture for their oxen, sheep, camels, and horses; and though many expatriate for this purpose in the feafon, the majority ftill remains at home, both winter and fummer. Neither can their predatory life fupply all their wants: for a whole nation must have a national support. Robbers as they are, they do not rob every one; the caravans still distribute all the merchandize which comes annually to the ports of Yambo and Jidda, through this very country; and in the commerce which the ancients describe, there was a regular intercourse between Sabéa and Petra, from the South, and between the gulph of Persia and Petra, from the East. This trade has fluctuated in different ages, from external causes: it is at this moment, perhaps, at a lower ebb than ever, from the commercial superiority of the Europeans in the Eastern Ocean, and from a diminution in the spirit of pilgrimage. But Mecca and Medina are fill to be confidered as marts rather than fanctuaries; and the commodities brought by the English from India, and by the Turks from Suez, still centre at Jidda ", as an emporium of confiderable importance.

It is the Turkish trade from Suez which the Romans occupied by being masters of Berenské, Myos Hormus, Petra, and Leuké Komě. It is the English trade from India, which the Greeks and Romans first found in the hands of the Sabéans, and asterwards assumed to

<sup>&</sup>lt;sup>100</sup> At the time Bruce was there, nine hips adds, are differed over the wilden part of from India were in the harbour, one of which Arabia by men with whom so traveller would was worth 200,000 is and one Arab offered to urchafe the nine carsoes. All thefe, he

themselves, as soon as they had sleets on the Red Sea that neither feared the Nabathêan pirates at the head of the gulph, or the Sabêan merchants at the straits; and from the time they learned the nature of the monsoon from Hippalus, they made a woyage to India more advantageous, than the purchase of a cargo at Moosa or Okélis.

### IX. EXPEDITION OF ELIUS GALLUS.

The voyage from Suez or Arsinoè was first planned by Neco; it was afterwards meditated by Alexander, and it was executed by the Ptolemies previous to the establishment of Myos Hortaus and Berenikè. It was not unknown to the Romans when they reduced Egypt, though then in difuse; but Elius Gallus set out on his expedition from this port, and Strabo imputes his failure to this circumstance as a leading cause.

Strabo laments that this expedition added little to the geographical knowledge of Arabia; and we have reason to complain that Strabo, who lived in habits of intimacy with Gallus, has recorded so little of the information which might have been obtained from that commander. The consequence is, that d'Anville, who follows Pliny, carries the Roman arms to Maríaba, the Mareb of the Arabians; and that M. Gossellin, by his interpretation of Strabo, supposes Mariaba, or Maríyaba, to be the Macoraba of Ptolemy, the Mecca of Mahomete. The distance between these two places is little short of nine degrees; so that the difference between the two csimates is 675 Roman miles.

Mecca is always written Macca by Reifke, in his version of Abilfeda.

If there were any data to determine this dispute, no labour should have deterred me from investigating it to the utmost; but as Pliny fasy, that the places which occurred in the expedition of Gallus are not found in authors previous to his time, the same may be said of subsequent writers; for there is not one of them, ancient or modern, who will do more than afford matter for conjecture. This is the reason that compels me to give a sketch only of an expedition to intimately connected with the commerce of the ancients in Arabia.

The commission of Gallus from Augustus was to explore Ethiopia, the country of the Troglodytes, and Arabia. The first part was executed by Petronius, his lieutenant, and terminated by the fubmission of Candace, queen of Meroe. But Arabia, Gallus referved for himfelf; and the country of the Troplodytes he croffed when he landed at Myos Hormus, on his return. This expedition commenced at Cleopátris 'as, in the neighbourhood of the modern Suez, where we find him at the head of an army confisting of ten thousand Romans, five hundred Jews, and a thousand Nabateans from Petra, with a fleet of eighty " vessels of war, and an hundred and thirty transports. Syllêus 104, the minister of O'bodas king of Petra, was to conduct this force; but his interest was concerned in defeating the expedition, which he effected, and afterwards paid the forfeit for his treachery with his life. The first error into which he led Gallus, was the preparation of a fleet, which confumed "" much time.

" See fupra, p. 246.

Cleopatrie is confidered as Arsinoe; but perhaps Arsinoe, Cleopatris, and Sucz, have all followed the retreat of the fea at the head of the gulph.

<sup>&</sup>quot;We have the account of preparing a Turkish seet in the same manner, anno 1537; by which we learn, that the country affording no materials for ship building, the several ar-

time, and was of no fervice; for the army might have proceeded from Cleopátris to Petra, and thence to the head of the Elanitick Gulph, through a friendly country, and in the ordinary track of the caravans ". But fifteen days were required to extricate the fleet from the fea of Suez, and to reach the road of Leukè Komè; and here, when they arrived, many vessels had been loft, and the troops were fo afflicted with a diforder in the mouth, and swelling in the legs, that the remainder of the year was lost, and the expedition desayed till the following spring.

Upon leaving Leukè Kome, Gallus advanced, first, through a defert " into the country of A'retas, who was related to O'bodas,

ticles were brought acrofs the defert from Cairo en camels. In this manner a flet of 76 veffels was condructed, which, from the time it weighted from Suez, was ten days before it reached Tor, and left it on the eleventh. This accounts for the fifteen days employed by Gallus in performing a paffage of little more than 240 miles. See Ramufio, tom. i. p. 224. Visagio per un Comito Venitiano.

We have the route of the pilgrims in Mel. Therenot, Pococke, and Shaw, from Cairo to Mecca; and reckoning from Ageroud, which is near Suez, the account in Therenot flauds thus, tom. i. p. 151:

	Hours
From Ageroud to Navatir	61
Raftagara	10
Kalaat el Nakel	15
Abiar Alama	See .
(Ails?)	14
Sath al Acaba	15
Kalant al Acaba	16
Dahr el Harmar	61
* Sharaffe Beni-	
gateie	14

		Hours.
	Magure Scho	uaib
	(Jethro)	- 14
	Moilah -	- 15
		-
		136 126
The rate of	of a caravan is from 3 to an hour -	0 3 21
		378 252
		63.

This route mediures, by the compaffes, in a right line on De la Rochette's map, nearly also miles, which, with the allowance for roaddiffance of \$, amounts to 320 miles; and this at 15 miles a day, a moderate march for a Roman army, requires 21 days: 50 that they proceeded falter by fea than they woulds have done by land; the time loft, therefore, was in the preparation of the field.

"This is the same defert which Mahomet pasted in his march from Medina to Hagir and Aila, where, Abilfeda says, magoas illi per viant tolerabant molestias ab æstu et siti, p. 52. Ed. Reiske, 1754. and feems to have been the fovereign of the Thamudites; but Syllèus had the fame influence here as in Petrêa; and though the country was not destitute, or the prince unfriendly, thirty days were employed before the army reached the country of the Nomades or Bedoweens, called Ararêne 108, and subject to Sabus. This tract has a resemblance to the territory of Medina and Mecca; and the space of fifty days employed in passing it, till they reached the city of the A'grani 109, Négrani, or Anágrani, which was taken by affault, is fome confirmation of the conjecture. The king had fled into the defert; but the country was not hostile, nor altogether incapable of fupplying the necessaries requisite for the army ".

From hence, after a march of fix days, they arrived on the bank of a river, where the natives were collected in a body, and opposed their passage: a battle was the consequence, in which, with the loss of only two Romans, ten thousand Arabians were slain. Strabo describes them equally deficient in spirit, as they were ignorant of the art of war; and yet these very tribes were in a future age, under

is Saphar ; and Sara is Saharra, the defert.

so A'grani in the first mention is written Neorani in the MSS t and on the fecond, ra Navgara: and Calaphon withes to read Ayrain. See Strabo, pp. 781, 782. All thefe readings prove the uncertainty of the ground we fland. on; and any of them would justify d'Anville in affuming Najeran (a place fully described by Al Edriff, and well known to Niebuhr); if the other circumstances of the expedition will accord. Najeran is a fortreis dependant on Mecca: it lies 12 days fouth of that capital, and east of the mountains which bound the Tehama. See Al Edriffi, pp. 48. 50, 51. This is perfectly confident, if Ararene is the

Ararène is probably Sara-rene, as Aphar . country of Medina and Mecca ; and Najeran must be, by comparing circumstances in Al Edriffi, on the borders of Yemen, nearly on a parallel with Sadum Rah. Confult. p. 48.

<sup>&</sup>quot; Ali paffed through Najeran, and brought a tribuse from it, when he was returning from Yemen, whither he had been fent to preach. the Koran by Minhomet; and if Nagrana be Najeran (as to all appearance it is), it directly contradicts Goffellin's hypothetis, that Elius-Gallus terminated his expedition at Mecca. Abilfeile Reifke, p. 53. Abilfeda mentionsthe convertion of the kings of the Homerites,. the people of Arabia Felix; and adds, that Ali's preaching converted the whole tribe of. Hamdan in one day.

the influence of Mahomedan enthulialm, to lubdue the world, from the Pillars of Hercules to the Indus.

The loss of this battle produced the furrender of Asca, a city in the neighbourhood; and, without learning what time was sport here, or what distance intervened, the next place we find them at is Athrulla. Athrulla was taken without difficulty, and garrisoned, and a supply of provisions was obtained, which enabled them to proceed to Marsyaba. This city is described as the capital of the Rhaminites, and the seat of Ilasar "", the sovereign of the country-there terminated the expedition; for, after lying before the place six days, Gallus was compelled, by want of water, to raise the steep, and retreat to Anágrana, where the battle had been sought ", and which he did not reach till after a distressful march of nine days.

From this time, the prefervation of his army was the more immediate object of the commander, than the hope of conquelt; he had pent fix months in reaching Marryaba; he was now convinced of the perfuly of Sylléus; he imputed the whole failure to the direction of the march by the advice of that minifer; and if the fame delay should occur on the retreat, he saw that the destruction of the army was inevitable.

To prevent this, it is evident that the route was changed; and we are led to conjecture, that it was directed from the interior to the

me. The copies of Strabo are so incorrect in and apparently at Asa, as that city surrenther amnes, that though there is evidently added unmediately after the battle, an intention of the editor to make Agrana

coaft. In this case, the army must have crossed the mountains and descended into the Tehama; and yet in a march of fixty days, we have nothing to guide our inquiries but the mention of four places, without dates, and with one distance only specified: these are, The Seven Wells, eleven days from Auágrana; Chaalla, Malotha, and Nera. Nera.", we are informed, was in the territory of Obodas, that is, in Petrêa, and in all probability at some distance to the southward of Leukè Komè.

At Nera the army embarked, and was eleven days in croffing the gulph to Myos Hormus. The route from this port to Koptus on the Nile has been already deferibed; and from Koptus, Gallus proceeded to Alexandria with the flattered remains of his forces. Of thefe, seven only had perithed by the sword; but a very great proportion was rendered unserviceable by disease. Annie, and a variety of distresses which they had experienced in the course of the campaign.

Thus ended an expedition, planned without policy and conducted without capacity. If it had fucceeded, the Romans could not have effablished themselves in the country; and by its failure, it retarded

<sup>10</sup> Ners, in the margin of Strabo, is written Hygra, and Negro in Cafabooth stransfation, and in fuch a factuation of the MSN, or printed capies, we have nothing to determine our doubts: but we may conclude, that the pilace, whatever is in some, must be confiderably below Lenke Kome, as the passing from that part to Myss Horman was only three days. This, lowever, was for a fingle finity, and, Galbus, had a face! in twe mult impose the contained his course by Xas Mahamad to the northward, and came By Xas Mahamad to the Egyptian flower. Much difficulty Anada in

the way of calculation, and, after all, it is not quite clear whether Straho's cleren days are to be reckoned from the time Qallis reached. Nera, or from the day he left it: I. conclude the latter to be intended. A Negra is mentioned by Codremus, p. 364. 500 'years later, whice a St. Archesha was put to death by Elebaas, the Abylfinian conqueror of the Homerites. One finolal not have expected to find a Chriltian marryr, of the same or family of the Arcthas's of the defert.

". Dio fays, they did not merely retreat, but were driven out.

their full intercourse with India for almost a century. But if it were possible to give the reader satisfaction on the extent of it, no apology would be requisite for the digression. This, from the scanness of materials, cannot be done; but as my conjectures differ both from d'Anville and M. Gossellin, I shall barely state the grounds on which they are founded, and leave the determination to the indement of the reader.

The first step towards fixing the termination of the expedition, would be to distinguish Marsyaba from all the cities with which it is confounded.

The Marfýaba of Strabo is in the country of the Rhamanitæ, and under the government of Ilafarus. It is not the March of Sabêa, where the great Tank "s is, for that he calls Meriaba of the Sabêans; and this fufficiently declares againft d'Anville's fyftem, which carries Gallus into Sabêa, and on which Goffellin juftly observes, that if Gallus had belieged March, he would not have been obliged to raise the fiege for want of water, the reason afligned by Strabo.

Ptolemy has likewise a Máraba (written Báraba in the text) which he places in the country of the Minêans, and calls it a metropolis; and a Mariama, two degrees to the south-east; but he has no Mariaba either in Sabèa or the country of the Homerites. His Elisari, the Ilafar of Strabo, are still farther south than the Minèans, and upon the coast.

Pliny has two Mariabas: one marked by the Tank, called Baramalchum \*\*\*, the Royal Sea or Lake; and another, in the country

<sup>&</sup>quot;Mareb is full the capital of a large protection of the Capital of t

of the Calingii; he adds, that Mariaba is a general name of a capital. It is apparently then the Mariaba "of the Calingii which he informs us, contrary to the affertion of Strabo, that Gallus took, and finished his invasion at Caripeta. But it is still more extraordinary, that the other cities he mentions as taken and destroyed by Gallus, do not, in any one inflance, correspond with those of Strabo, except that his Negra is possibly Nera".

Dio "' terminates the irruption at Athlula, evidently the Athrulla of Strabo: he mentions the army being afflicted with a difeate in the head and legs; and adds, that Gallus did not merely retreat, but was driven out by the natives.

The whole of this goes to prove, that Gallus did not reach Mareb Baramalcum; and, in fhort, the fact is impossible; for that Mareb is above eleven "\* hundred miles from Moilah, and the retreat of Gallus, in fixty days, would require a march of almost twenty miles a day, which, for such a continuance, is not to be performed.

But if the Mareb of d'Anville be too distant, the Mecca of Goffellin is too near; for the route of the caravan, from Moilah to Mecca, makes it only 731 miles, at 3 miles an hour.

547 — at 21 miles an hour.

546 — d'Anville's Map.

560 - De la Rochette's Map.

Add for road-diftance So

640 - probable mean distance, from 620 to 640.

<sup>\*\*</sup> Supradictam Mariabam. The Mariaba of the Calingii is the last mentioned, and Hardouin supposes that to be meant.

<sup>142</sup> May it not be Negrana, for Nagrana?

<sup>19</sup> Lib. liii. p. 350. Ed. Steph.
18 It is 1085 in a right line, which, with

the addition of a feventh, becomes 1240, and increases the difficulty.

If, therefore, Gallus was advancing for fix months, he must have marched little more than an hundred miles a month. And let us fuppose, with Gossellin, all the fraud of Syllèus, and all the deviations of the march he pleases, this advance is far less than a Roman army can be supposed to make. The country Gallus was desirous of reaching, was the country of gold "", frankincense, myrrh, and pipices, certainly either Hadramaut or Yemen; and when he was at Marfyaba, he was told he was but two days distance from the province he wished to enter. He might be deceived in that, and most probably he was; but the deception could hardly amount to the difference between two days and thirty, and Mecca is little short of thirty days from Hadramaut.

Gossellin supposes Athrulla to be Yathreb or Medina, and Marfyabı to be Macoraba or Mecca; but it is not easy to discover the resemblance of these names, or the other five he gives from Pliny. Strabo is surely a better guide, who was in habits of intimacy with Gallus, and who received the names most probably from his report. Pliny says, that Marsyaba was taken, and that the expedition terminated at Carspeta: Strabo afferts, that Marsyaba was not taken, and does not notice Carspeta at all. It is not safe to build on similarity of names; but Nagrana, which Gossellin supposes to be Al Nokra. "", is certainly more nearly related to Najeran in sound. Najeran is affuredly as ancient as Mahomed's time: it is a conspicuous pro-

Al Nokra, I conceive it lies far too much to the east to be in the track of Gallus; and, from the expression of Al Edriss, I conclude it lies farther east than of Anville has placed it. But even if d'Anville is right, Al Nokra ia upwards of 200 miles out of the road that Gallus appears to have taken.

<sup>&</sup>quot; Strabo, 780.

<sup>&</sup>lt;sup>11</sup> Al Nokra is the place where the road from Bafra to Medina joins that from Kufa to the fame city. A Bafra ad Medinam flationes fere viginti, & hace via coincidet cum extremitate Kufte prope Maaden al Nokra. Al Edriffi, p. 12. Even as d'Anville hus placed

vince ftill, according to Niebuhr 123; and Al Edriffi 124 places it on the road from Mecca to Yemen. This appears to be the very route by which Gallus was advancing; and Najeran, by the Arabian accounts, was capable of affording the supplies of which the army stood in need. I am myself therefore persuaded, that Gallus entered the country of the Minêans, and that the city he affaulted, whether Maríaba, Marfýaba, or Carípeta, was the capital of that province; for Maríaba implies a capital in general; and if Ilasar is the king of this tribe, whether Calingii, Rhamanítæ, or Elefári, I would comprehend all three under the title of Minêans. At least, to my conception it is clear, that Ptolemy, Pliny, and Strabo, all point to fomething farther fouth than Mecca.

Whether this opinion will meet with the approbation of others. is dubious; fuch as the obscurity and contradiction of my authorities will allow, I give it. If Najeran be a fixed point, and concluded. we have ground to fland on; if it can be disputed, I am ready to embrace any affumption that may be supported upon better proofs. What the Rhamanitæ of Strabo, or Calingii of Pliny, may be, seems impossible to determine. Gossellin concludes, that the Rhamanitæ of Strabo are the Manitæ of Ptolemy: it is the strength of his argument; and in Mercator's Map, the Manitæ are placed on the north of Mecca. But perhaps Mercator is misled, for we have no latitude of the Manitæ; and the text fays, below the Manitæ 155 is the interior Myrrh country, and then the Minĉans, a great nation. I have not yet met with any account of myrrh in Hejaz, and therefore, if the Rhamanitæ and Manitæ are the fame, I conclude that they are

<sup>&</sup>quot; Arabic, ii. 114. 124 Pages 48, 49.

<sup>···</sup> Υπό τῶς Μακίτας κ ἐντὸς σμυριοζόρος, εἶτα Μιrain piga Bos.

in Yemen. But the whole of this is conjectural; and, if names avail, I might with equal propriety contend, that Rhaman is Haman, or Hamdan, the tribe converted by Ali, the polition of which answers; or affert, that Cari-Peta is Carni-Peta, correspondent to the Carna or Carana of Strabo, which he says was the capital of the Mineans.

Is it not reasonable to suppose that the army moved in the track of the caravans "1" and as the line here assumed is direct between Hejaz and Hadramaut, and cuts the province of the Mineans, who were the regular carriers between both, does not this supposition solve more of the difficulties than any other? It is but a supposition at last; still, where our ignorance of the country renders every effort dubious, a rational hypothesis is all that can be expected.

Najeran 148 itfelf is in Hejaz, for it is one of the fortreffes of Mecca, according to Al Edriffi; and the boundary of this province and Yemen, is fixed at the following station. If, therefore, Gallus

<sup>16</sup> I have a leaning towards the connection of thefe two names; but if the two places be the fame, the difficulty is not removed; for the fame city cannot be taken, and not taken; and the expedition cannot terminate at two different places. The following circumftances; however, may be carrifole, if not convincing:

The four great nations in Ambin Telis, or Yemen, were the Miniseau, the Subsham, the Katabananies (who are in the Maphartin of the Peripliqa), and the people of Flardamaut. As the power of the Subsham declined, thus of Hanyare (the Homeritap) prevailed, whole capital was Aphar, Saphar, or Dubry the Graptal was Aphar, Saphar, or Dubry the Control of the Ministan was Karans, or Karans. Musania. ... "Subs shown it purples whose in the proposal of the Ministan was found in the Ministan was the Marian in the Ministan was the Marian in the Ministan was the Ministan in Ambinistan in Ambinis

oully, but without affixing any importance to it, may not the Knijetta of Pliny be Karni-Petra, the fortres of Karna? If this couldbe supposed, Mariaba, or the capital, is identified with Karni-Petra; for both are the principal city of the Mindam.

<sup>19</sup> Strabo has pointed this out, under the importion that Gallus might law marched by the carwan-road through Petréa. Amochaem, le vi. the manolepusys rooting which adopts and adopting the visit and adopting the strategies for 100 decimal adopting and representations of the common and men in the carwans find impolies, from fortreds to fortrefs; in the fame manner, as an army.

1.0 El Edriffi, g. 49.

was nine days in returning hither after his repulse, we may suppose that he would not march less than fifteen miles a day on such an emergency: this requires that he should have advanced upwards of an hundred miles into Yemen. And if we date from Najeran the fixty days employed in his retreat to Nera, an estimate between twelve and fifteen miles a day would enable him to reach that port in the time affigned. This seems a great exertion for fixty "o days continuance; but famine impended, and doubtless the Arabs hovered in the rear; add to this, that when the army arrived in Egypt it was completely ruined, as Strabo informs us, by famine, hardship, fickness, and the difficulties of the march.

Nera, as it is the termination of the expedition, I fhould have been glad to fix, but no reprefentative offers; it must be within the limits of Petréa, and it should be placed as far below Leukè Komè as the province will admit: it may perhaps be discovered by some future Niebuhr; or an enlarged knowledge of the language, and the country, may shew that we are all pilots at sea, without instruments, charts, or compass.

We are now to return to the coaft, on which, as has been already noticed, the Periplûs mentions only the Canraites, Burnt Island, Moofa, and Okclis. The Canraites are the wild tribes on the broken shore of the Hejaz, terminating about Hasian Isle, in lat. 25°. And the passage from Leukè Komè to the Burnt Island was conducted with a view of avoiding the coast throughout. How this could be effected during a run of from ten to twelve degrees, or more, is not easily accounted for; but one of these distances it must

Lie But it agrees with a similar route from which required 65 days. Lib. xii. 32. Har-Thomas to Gaza, mentioned by Plisy, douis.

be, according as we affume Gebel Tar, or Gebel Zekir, for Katakekaumene, or the Burnt Island; and as both preserve at present the figns of volcanoes in decay; one of them it must be, as may suit best with other circumstances mentioned. The extreme distance is from Moilah, in lat. 27° 56' 130 to Gebel Zekir ", in 13° 50'; the fmalleft, from Haffan Isle, in 25°, "12 to Gebel Tar, in 15° 10'. If Mokha is affumed for the representative of Moosa, and Moosa be the only object of the ancients, Gebel Zekir must be preferred; or if we suppose that the ancients wished to approach the coast, as foon as they found the natives more civilized, we should rather be directed to Gebel Tar 152: for in that latitude, and even to the north of it, we are to fix the Sabeans generally, in the fame manner as Niebuhr extends the dominion or influence of the modern Sana. Sana in fact, under the government of its Imam 134, as it comprehends nearly the fame territory as the ancient Sabêa, fo does it partake of the manners and habits attributed to that nation, where commercial intercourse had softened the Arabian character, and in-

<sup>230</sup> Making 14° 6'. 131 Notwithstanding the disagreement of. M. d'Anville and M. Gossellin, no one can fearch this question thoroughly without reference to the differtation of the former on the gulph of Arabia. I have collected materials from both; from P. Sicard, Irwin, Bruce, and De la Rochette's beautiful chart. If I prefer the latitudes of the last to all others, it is because they are founded more especially on observations made by English navigators, and the officers on board the floops, packets, and trading veffels in that fea, are, for the most part, scientific men, and better qualified to determine nautical questions than any navi- i. 307. gators who have preceded them.

Making o' 50'.

<sup>29</sup> Jibbel Tier is the point from which all flips going to Jidda take their departure after failing from Mocha. Bruce, i. pr. 341. This, though the courfe is the direct contrary to that of the Periplus, fill marks it as a point of departure and defination.

<sup>&</sup>lt;sup>24</sup> This is evident, from Bartenian in Ramich, the French Voyages in 1721, by La Rocque, and Nichelur. The government of the Imam is much more gentle than any Moorith government in Africa or Arabin; the people, too, are of gentle manners, the men, from early age, being accultomed to trade. Bruce, i. 307.

troduced that fecurity of life and property, without which commerce itself cannot exist.

Mooza, according to the Periplûs, was the regular mart " of the country: it was not a harbour, but a road with a fandy bottom, which afforded good hold for the anchors ", and where the ships lay in great security: it was inhabited wholly by Arabians; and was frequented on account of the Indian trade with Barugaza, as much as for its native produce.

The intercourse with the Sabeans had from the first been established, either here or at some mart in its vicinity; but the Sabeans were now no longer the prevailing tribe; the Homerites, who came from Mareb, were become the superior power, and Charibáel the sovereign of both nations. He had fixed the seat of his government at Aphar, supposed by Gossellin to be the same as Dasar or Sasar; and Dasar is noticed by Niebuhr as a place near Mount Sumara, now in ruins. The distance, however, does not answer; for Aphar is placed by the Periplüs thirteen days inland from Save, and Save three days from Moosa. But if Save is the same as Taas, or Mount Sabber, the distance from Sabber to Dasar is not much more than from Moosa to Sabber; and thirteen days from Sabber inland would carry us much nearer to Sana, the modern capital of the Imam, and the metropolis of Yemen.

It is possible, that in a country subject to perpetual revolutions, provinces may have obtained different names from the tribes that occupied different fituations: this seems apparent in the district of Cátaba, which is now inland fixty miles from the coast, notwith-

Druce memors the made threatmenter it is countrie announced, other part

<sup>&</sup>lt;sup>15</sup> iμπόρον τίμμου, the port chablished by of the road of Mokha. The cables, he fays, the mative government.
6 not rub, because the bottom is fand, while the Purse mentions the fame circumstance it is coal in almost every other part.

standing that Strabo places the Catabanians immediately at the straits. It may be, therefore, prefumption to fay, that Save is Sabber 127, or Aphar, Dafar; notwithstanding that the territory of Maphartis 138 at Save, or the capital of the Homerites thirteen days inland, may afford us general information fufficiently correct. Cholebus, the fovereign of Maphartis, whose residence is at Save, is styled a tyrant by the Periplûs, that is, a prince whose legitimate title was not acknowledged; but Charibáel is the genuine '39 fovereign of the Homerites and Sabeans. The power of Cholebus extended over the fouth-west angle of Yemen, both within and without the straits, occupying the fame tract as the Catabanians of Strabo in a former age. And Cholèbus had a joint power " with the fubiects of Charibáel at Moofa, over the fettlement at Rhapta, on the coast of Africa.

The mart of Yemen, at the prefent day, is at Mokha, where coffee is the grand article of exportation, on which the Imam of Sana "4" receives a duty of twenty-five per cent, equivalent to the custom exacted by the Romans at Leuke Kome seventeen hundred years ago. Twenty miles inland from Mocha, Niebuhr discovered a Moofa still existing, which he with great probability supposes to be the ancient mart, now carried inland to this distance by the accretion of the coast. And if the accretion is allowed, certainly

<sup>&</sup>quot; Niebuhr has a conjecture also relating to merchants of Moofa, who were fubicets to Sabba and Zebid, tom, ii. p. 55.

<sup>138</sup> Periolds, p. 12. us indiamo; Basilede. Perip. p. 13.

see So I interpret a paffage (p. 10. of the Periplus) singras di dursis (rels xuipas) sarà re δικαιου αρχάιου, υπισύκτευσαν τη βασυλεία της πρώτης γενομένης Αραβίας, δ Μοβαρείνες τύρανος. Παρά δ τε βασιλίως υπόφορο άυτης έχρουν δι άπο Μέσα. Ι lêbus, and βασιλώς Charibáel; and that the tas myrrha partes pendunt.

Charibáel, received a tribute from Rhapta, while Cholebus had the civil administration of the fettlement. Modapirms rupames, is the Tyrant of Maphartis. Mophartis and Maphartis differ no more than Dofar and Dafar, in the pronunciation of which Niebuhr fays he could perceive no difference.

<sup>&</sup>quot; Niebuhr, who cites Pliny, lib. xii. c. 35. understand by this, that Tujamos means Cho- for another instance: Regi Gebanitorum quar-

no fituation can be affumed more correspondent to the ancient authorities.

At Moofa, the IMPORTS specified are these:

Πορφύρα 142 διάφορος καὶ χυδαία, Purple Cloth, fine and ordinary. Cloaths made up in the Arabian

Ίματισμός Άραβικός χειριδωτός ό τε απλές καὶ κοινός καὶ σκοτελάτος.

fashion, with sleeves, plain and common, and (scutulatus) mixed or dappled.

Saffron. Kpozos.

Cyperus. Aromatic Rush. Κύπερος.

Mullins. 'Οθόνιον.

Cloaks. 'Α ζόλλαι. -

Λώδικες ε πολλαί απλοί τε και Quilts, a fmall affortment; some plain, and others adapted to the EVTOTIOL. fashion of the country.

Sashes, embroidered, or of different Ζώναι σκιαταί, fhades.

Perfumes. Μύρον.

Specie for the market, or in con-Χρημα ίκαυον, fiderable quantity.

Wine and Corn, not much. The Οίνος τε καὶ σῖτος ἐ πολύς country produces fome corn, and a good deal of wine.

### EXPORTS:

- Myrrh, of the best quality. Σμύρνα εκλεκτή, -- Stactè, or Gum. Στακτή άζειρμιναία,

White Stones. Alabaster. Auydos,

44 The modern articles of import and ex- 40 A doubtful reading; but probably conport may be seen in Niebuhr, tom. ii. taining Mnais, i.e. from the country of the Minæi. p. 52. Added

Added to these were a variety of the articles enumerated at Adûli 144, which are brought over from Africa and fold here. But there were likewise several others imported as presents both to Charibáel '45 and Cholêbus; fuch as horfes, mules, gold plate, and filver emboffed, robes of great value, and brafs ware of various kinds. Of these it may be presumed that Charibael had the largest share; for to him embaffies '46 were frequently addressed, and he was confidered as the friend of the Roman emperors.

The importance of this commerce, as it appears in the Periplûs, is manifestly far inferior to the representation of it in Agatharchides; and the trade of the Sabeans declining, after the fleets from Egypt found their way to India direct, was probably not only the cause of their impoverishment, but of their subjugation also by the Homerites. Still it is evident that the manners of the people in this quarter of Arabia were civilized; that the government was confiftent, and that the merchant was protected. This character, as we learn from Niebuhr, Yemen still maintains, in preference to the Hejâs, and the whole interior of the peninfula. The fame fecurity is marked as strongly by the Periplus in Hadramaut : and the whole coast on the ocean being commercial, the interests of commerce have fubdued the natural ferocity of the inhabitants.

It is a circumstance foreign to the object of the present work, but still curious to remark, that in the age previous to Mahomet, Yemen

244 Coffee and frankincense are the chief of the title of Friend of the Emperors, an honour the native exports at prefent, with myrrh, formerly conferred upon fovereigns in alliance ivory, and Abyllinian gold from Mallua, an- with Rome, by a vote of the fenate. Mafiniffa, Eumencs, and Arioviftus, were flyled

fwering to the ancient Aduli.

<sup>145</sup> To To Bagiles and To Turaren.

κρατόμων, may be rendered as expressing, that from Rome are specified. by frequent embaffies and prefents he had obtained

Amici Populi Romani. But I have preferred 146 Lungier were class and disjois Class was doro- the rendering in the text, because the presents

was in the possession of the Abyssinians, whose power terminated with his birth; and that in the fhort period 147 which intervened between his assuming the prophetic office and the Caliphat of Abubecre and Omar, all this part of Arabia was, almost without an effort, fubiected "4" to their power. In the fixteenth century the Turks were mafters of the coaft, and fome places inland, but were driven out by the founder of the present dynasty, Khassem el Ebir, whose posterity assumed the title of Imam, and fixed their residence at Sana, the present capital of Yemen, which cannot be very diftant from the ancient metropolis of Sabêa.

On this coast, the first fleets that failed from Egypt met the commerce from India. Agatharchides feems to fay, that the fhips from Persia, Carmania, and the Indus, came no farther than the coast beyond the firaits; and that the fleets from Egypt received their lading without passing them. Now the sleet from Carmania and the Indus could not reach Arabia without experiencing the effects of the monfoon, as Nearchus had done; and the knowledge of this once obtained, could not be loft. We cannot go farther back, historically, than the journal of Nearchus; but in that we find manifest traces of Arabian navigators on the coast of Mekran, previous to his expedition. And whether the Arabians failed from Oman or Sabêa, it is fill a proof that the monfoon must have been known to them before the time of Alexander; and a high probability that they had reached the coast of Malabar, or that vessels from that coast had reached Arabia, from the earliest ages.

accession of the strongest and richest provinces 148 Yemen feems to have been converted of the peninfuls, of the more civilized to the before Maliomet's death, if we credit the ac- more barbarous, is one of the obscurest facts count of Ali's million and fuccels. But the in the early hillory of the Mahomedan power.

<sup>12</sup> Niebuhr, tom. ii, p. 10.

The diffance from Moofa to Okélis is short of forty "" miles. Okélis has a bay immediately within the straits; and at this station the sleets which sailed from Egypt in July, rendezvoused " till they took their departure the latter part of August, when the monstoon was still favourable to conduct them to Muziris, on the coast of India. For Okélis we have Okíla "" in other ancient authors, and Ghella is the name it bears at present. D'Anville has marked it sufficiently in his Ancient Geography; and in Capt. Cook's " chart, which, is upon a large scale, the entrance of this bay is two miles "I wide, and its depth little short of three. Added to this, if it is considered that the projection of the Bab-el-Mandeb point is a complete protection " against the contrary monsoon, we find here all the conveniences " that were requisite for a sleet constructed like those of the ancients.

Ti Aκίλα, text; Ωκίλα, marg. Strabo. P. 769.

dern intelligence with ancient authorities, when we can obtain it in detail.

De la Rochette marks this bay, and adds, that it is still navigable by hoats; a sufficient proof that it was practicable for an Egyptian fleet seventeen centuries ago.

34 Between Cape St. Antony and Babel Mandeh the land is low along thore, forming a deep bay, which makes the Cape (Babel Mandeh) appear detached. Oriental Navigator, p. 152.

... "Having passed the strait, it is necessary to anchor: you must shut up the straits, and anchor a little to the northward of Cape Babel-Mandeb, where the water is always smooth. Oriental Navigator, p. 152.—N. B. This is at the entrance of the Bar of Okelis.

<sup>249 300</sup> ftadis, Peripl. equal to 37½ miles, or, at 10 ftadia to the mile, 30 miles. 150 See fupra, pp. 37. & 75.

he call the promotory by this name.

"I I has been already noticed, that the
Capt. Gook here mentioned commanded a
though in the India Company's ferrice, about
the year 1774. His Goal is very large, and
concingently I have been enabled to view this
bay more dithindly than in 6"A noville's, nam, or
bell Rochette's chart; and had I been poffeffed of Capt. Cook's chart when I deferribed
the Bay Avalities (n. 11; A). I floadl on thave
been at a lofs to sifting hig form and limits; it
appears there in perfect conformity with the
Periphia. Such is the subuntage of a large
fedge, and frost is the corresponders of r

# X. STRAITS OF BAB-EL-MANDEB, ANCIENT NAVIGATION OF SESOSTRIS.

The passage of the straits, and entrance into the ocean, had been considered possibly as great an atchievement by the natives, on both sides of the Gulph of Arabia, as the voyage of Hercules through the Straits of Gades to the Garden of the Hesperides, by the Greeks. Fabulous accounts consequently attached to both; and the passing of Bab-el-Mandeb was as naturally attributed to Sefostris, as the voyage through the Straits of Gibraltar to Hercules. Diodôrus says, that Sesostris "fent a sleet of sour hundred ships into the Erythrêan Sea, and subdued the islands, and all the maritime countries as far as India. Heródotus is much more moderate; and mentions only, that Sesostris commenced his expedition from the Gulph of Arabia, and subdued the nations bordering on the Erythrean Sea, till he met with shoals ", which opposed the farther progress of his fleet.

But as we are now arrived at the firaits, I shall introduce a table comprizing the most material authorities of the ancients, compared with each other, and with the different conclusions of the moderns. A final decision on the points disputed, or actual precision in the present attempt, are not to be expected; but a probable adjustment of near twenty names to their respective positions, will afford the reader a general view, which will enable him to form a judgment for himself.

Diod, lib. i. p. 64. ed. Wellel. . " Herod. lib. ii. p. 149. ed. Wellel.

# TABLE of PTOLEMY's Catalogue for the Eaftern Side of the Gulph of Arabia, compared with other Geographers, ancient and modern.

## The first Latitude of Ptolemy is according to the Latin Text; the focund, according to the Greek.

\* Denness Pulitions Supported to be afterentised. R. Lutinales from De la Rochesse.

STRAEO.

D'ANVILLE. GOSSELLIN.

DIODORUS.

AGATHARCHIDES.

L Klufma Gerrifon 28° 50'		C. 40. p. 208. in whose country the fea retreated. Truglodytes.		Clyfins 19' 27' Philighiroth Sleard.	-	" Clyfma 29' 40' R.
II. Aminoč 29" to' 29" 20'		Polidion. Under this name Diodorns comprehends the fea of Snex.		Arsinuè 29° 46' Cleopatris, Suez.	Clyfma Sucz. Colzum.	* Snez 29" 58' R
III.	Phoenicon.	Phoenieon.	Photofcon.	Eism of Exed. xxv.	Elm. Tor.	* Tor 28' se' R.
IV.	Nella is not an Island in Agatherchides	Ifland of Phocse, described with the properties of Neffa	Island of Phocze	E? Cab.	Shodowan.	* Shedowan Island 27 24' R.
V. Pharan - 28" 30' 48" 10'	Promostory.	Promontory.	Promontory.	Rhs Mahomed.	Ras Mahomed	* Ras Mohomed 27 47 5" R.
VI Elein - 20° 2' 28° 15' City - 26 15' 20' 15'	Lwanitick Gulph	Laianitick Gulph.	Elasitick Gulph.	Ails Elath Harla	Aila Acaba 11a.	* Elath 29" 15' 5"
VII.		4	100	Acaba Exion	Acaba	* Acaba 29° 10′ R.
VIII. Onne 20 40 28 30	2					1
IX. Modiana 27° 43' 27' 45'	Batmizómincia.	Винікотопея.	Hunters.	Magar Schools. Jethra the Midinaite	Magar Schoualb.	* Madisnor Midian.
X. Hippos, Monnt - 27 20 Town 26 40' 26 10'			×		Bull's Horns, Irwin. But S. of Moilsh.	Buk s Horns Irwin, p. 142. vol i oct.
XI. Phenicôn 26 '20' 26' 20'				Calast el Moilah.	Molish. Lenkê Komê.	"Leuke Kome. White Village. 27° 56' R.
XII.	Three Iflands: 4. Sacred to His. 2. Sooksbna 3. Salydo.	Three Islands. One facred to 1fs.	Three Islands.			* Three Iflands. Inwin 28° 4′ R. 1. Tiras. 2. Barkan. 3. Sanafer.
XIII. Rhaunathi Village 25' 40' 25' 40'	ends at Haffen, be 25° R.	Dangerous coaft, Echinades.	Dangerous coaft, 1000 flades.	Rouniè.	Dangerous coaft.	* Dangerous coaft. Kniraites.
KIV.				Hawr. White Vil-		Haver, fame lat. as Haffan 104 og R.
EV. Chesfoncie Promostory 25° 20' 25° 20'	Coall with water.	Cherfonefus.	Cherfonefus.	Rin Edom 24" 5"	Ras Unned 25° 40' possibly Ras Mahar 24° 32' R.	has Reghab? lat. 2.5° 13' R. under which, Jeraboop harbour of Irwin
KVL Izonbia Village s y o'	Coast with water.	Clumnoothas.	Charmothae,	. Yambo x5" 50"	Yambia inland.	or Vample R

XVII. Copar vange 23 15					Done, Capala. 1	
XVIII. Arga Village 22° 40'					Rubegh Gadirkom 22, 50,	
XIX. Zasram Capital 22' 0'						Thin ? 23' 30' R
XX. Kentos Village 21 30'					Gidéah.	
XXI. Thebz City - 21° o'	Dedetor.	Debre	Deba, from 177, Dahah, Gold.	Pievmer of Mes ka. Maco-robe of Profe 22' o'	Mehligert.	Mekka 21' 32' R Province of Mekka Mexca, bt. 21' 40
XXII. Bottins River 20' 40'				Bardilloi	Sockia.	* River Charles Ibhu Obkor 21' 3: R
XXIII				Giddeh up" 34" Part of Mckins		Giddsh. Port of Macoraba.
XXIV. Balco Capital 20 15			i	Res Bad. Avad	Serviu.	Giddah Head 21' 38' R.
XXV. Ambe City - 19 10						Gottan? Ziden?
XXVI. Kaffanites	Aldei Kelkodrini.	Gafagdris. Albai	Gold Conft.	Ghezon 16 48' R.	Beni Halii.	Geilm, on Zieken 20 44' R.
XXVII. Mámala Village 18° 10' 18' 10'						Reve Hair? 18 of Limit of Hejur ar Yeusen 18 37 R
XXVIII. Addi Village						Callinite, termina perlaps at Rev Glufau.
XXIX. Elifari on the coaft. Missai inland.	-			,		Elizar commence from whose Rus Glazen, let. 16 g to Mo we.
XXX. Pum City - 16 30'						
XXXI Pudni City 16 30'	1					hay below Lobes.
XXXII. Æli Village 15" 30"				Ras Hali, let. 19' o'	Lohein 15' 30'	Ifficial Gebel Tw
XXXIII. Napegus Village						Hodeida? relemb   Adedi in formel,   but not in points
XXXIV. Sacatia City 14' 30			1			Al Snarga i Iffinal Gebir Zek 13° 50° 14° 0' R
XXXV. Moole Mare 14' o'	babča.	Sabia.	Sub(u.	Mooka	6 leagues island	Muza 13 0' Mokha 23' 18' B
XXXVI. Sosippi Port 13 0	i	i i				
XXXVII. Plead Okella 12° to' 12° to'		1				1
XXXVIII Okelis - 12 0	<u> </u>	İ		Gisella.	Ghella.	Gliclia Boy 12" 48" R.
XXXIX Palmoromeo Presor		1		Bub-el-Mandeb.	Bah-el Massleb e2" 39' 20" Brace.	Pilor's fift 12*44' I

If the shoals of Heródotus have any foundation in fact, they are connected with the Bay Avaites ", on the African shore, immediately beyond the straits, where mention is made both by Strabo and the Periplia, that the vessels employed in later ages put their lading into boats in order to trade with the natives; but this is hardly intended by Heródotus, though his description has confined him within narrower limits than those of Diodôrus.

This, however, we obtain at leaft from the account before us, that in the age of Heródotus it was a prevailing opinion, that the passage had been made in the most remote ages; and if the Egyptians ever were navigators, there can be no objection to admit them into a participation of the commerce with Arabia, or extending that commerce as far as the Arabians did towards the east. Few other historical documents, however, of the fact appear, farther than may be collected from the circumstances here recorded, and these are both few and deficient.

To what extent the paffage of the ftraits, and progredively, the voyage to India, were accomplified, has been already fufficiently flewn; but that it was always confidered as a most extraordinary attempt by all those who had not personally made it, we want no other testimony than that of Arrian, the historian of Alexander. He afferts, that no one had gone round the whole coast, from the Arabian into the Persan '50 Gulph, though perhaps some sew had passed from one to the other by striking out into the open sea "6".

venot, p. 7. Cofinss.

56 Lib. viii. p. 358. ed. Gronov. See the

58 This is in fome measure true at this day; note of Gronovius on this pussage, p. 356.

<sup>&</sup>lt;sup>15</sup> Perhaps the Safus of Cofmas, but dublous; for his Safus feems to be rather on the has been little vifited. Capt. Hamilton's is coalt of Adel, or Barbaria. See Melch. The: the best account I have feen.

Now Arrian lived in the reign of Adrian; and Hippalus had laid open the track to India, at leaft fourfloore years before Arrian wrote: fo little was known in the northern part of the empire of what was going on in the fouth.

Okèlis was not a mart of commerce, but a bay with good anchorage, and well supplied with water: it was subject to Cholèbus ".
The neighbouring headland of Bab-el-Mandeb, which forms the entrance of the strains, is placed in lat. 12° 30° 20" by Bruce, and the strains themselves are faid to be only fixty stadia, or seven miles and a half wide, or six miles, if we reckon ten stadia to the mile. This is very near the truth, if we measure from Bab-el-Mandeb to Perim, which the Peripsis calls the Island of Diodôrus; while the whole breadth, from the Arabian to the African side, is nearly five-and-twenty ". Perim, or Mehun, was taken possession of by the British, when the French were in Egypt, and begun to be fortissed; but it has no water. It is not the only island in the straits; for there is another called Pilot's Island, close to the Arabian shore; and on the African side eight more, bearing the name of Agesteen.

The wind in this passage is described as violent, from its confinement between the high lands on both sides; and the opening of the straits gradually towards Fartaque and Gardesan, is strongly \*\*\* marked in the Periplus.

The first place to which we are directed beyond the straits, is a village called Arabia Felix: its distance is estimated at an hundred and twenty miles from Okélis; and it was formerly a city of im-

κό Κώρα τῆς ἀὐτῆς τυρανίως ς of the Ufurper's καὶ Ακτογραφίας πάλοι τῆς δαλάσσης ὰν ἀνακολο Country.
καὶ κατά ΜΙΚΡΟΝ ἡι τὰκογραφίας
καὶ κατά ΜΙΚΡΟΝ ἡι τὰκογραφίας
καὶ κατά ΜΙΚΡΟΝ ἡι τὰκογραφίας
του Πτιας conjectures fix leagues Cook's oppoing py degrees from the fituits to the

portance before \*\*\* the fleets passed from India to Egypt, or from Egypt to the countries towards the East \*\*\*. Previous to that time, the fleets from Egypt and the East met in this harbour, which was the centre of the commerce, as Alexandria was afterwards for all that passed through Egypt into the Mediterranean. This harbour was more commodious than Okèlis, and assorded better enchorage, as well as better convenience for watering, than Okèlis. The town shands at the entrance of the bay, and the retiring of the land inwards affords protection to the shipping. Reduced as it was in the author's age, by the different channel into which the commerce had been directed, the village was subject to Charibáel, and had within a few years been taken and destroyed by the Romans.

### XI. ADEN.

EVERY circumstance in this minute description directs us to Aden: the distance, the harbour, and the name "", all correspond; and the peculiarity of its being under Charibáel, while Okélis was possessed by Cholébus, marks the extent of the Homerite dominions, furrounding Maphartis in the angle of the peninsula. The native sheiks, or heads of tribes, at the present day, are perfect representatives of Cholébus. When Niebuhr was in Arabia, the sheik of

the 'Es; and som rower.

<sup>&</sup>quot;5 In the middle ages, the India trade had reverted into its original courfe: Ex ipfa folvuntur navigia Sindæ, Indiæ, et Sinarum, et ad ipfam deferuntur vafa Sinica. Al Edriffi,

The Arabs diffinguish between Cheen and

Ma. Cheen: the first is Cochin China; and the other, China. The porcelain mentioned fecus to imply, that Sinarum uted here means the real Chinese, and that they traded so far west in that age. Sindæ and Indiæ express Scindi and Hindostan.

Aden fignities delicies. Huet.

Aden was no longer subject to the Imam of Sana, but had afferted his independence, and possessed a small territory in the neighbourhood of the city.

The capture also and destruction of this village by the Romans, a fhort time previous to the author's age, would be a natural confequence of the progress and extension of the Roman commerce from the Red Sea to India; and, as Claudius collected a tribute from the maritime towns of Arabia, it is natural to suppose that he was the Cefar mentioned in the Periplus, who ordered this place to be defiroyed, for the purpose of suppressing every power that might interfere with the Roman commerce, or divert a share of it into its ancient channel. It is true this must have been an act of oppression upon Charibáel, who was the ally and friend of the Roman emperors: but far creater facrifices of their justice to their ambition occur in the hiftory of those sovereigns of the world. Was it not the fame policy which induced Soliman, emperor of the Turks, when he fent Soliman Pacha from the Red Sea to suppress the rising power of the Portuguese in India; when, under pretence of delivering the Mahomedan Powers from this new and unexpected intrusion of the Christians, he employed the forces which had been collected on the occasion in seizing on the maritime towns of Arabia? It was then that Soliman Pacha obtained possession of Aden by treachery, and hanged the sheik at the yard-arm of his ship 167.

I conjecture that it was Aden which Agatharchides deferibes without a name, when he places a city on his White Sea without

at Alexandria, and fent to Suez to ferve under or four spice ships in a year.

<sup>&</sup>quot;Viaggio di un comito Venetiano. Rasulta, ten i. f. 276. anno 1538. Soliman Pacha. He was prefent at the execution of the flielt, and deferites the Idalout This Venetian captain was put in requisition trade at Aden as then confilling of only three

the straits; from whence, he says, the Sabcans sent out colonies or factories into India, and where the sleers from Perfis, Carmania, and the Indus, arrived. He specifies large ships employed for this purpose; and though his mention of islands may suggest an idea of Socotra, Curia Muria, and the coast of Oman, it seems far more probable that his intelligence was imperfect, and that these fleets, which he describes, must have been found in the same port which the Periplus affigus them, as long as the monopoly continued in the hands of the Sabcans.

The testimony of Agatharchides is, in one point, highly important; for it is the first historical evidence to prove the establishment of Arabian colonists, or rather resident sactors and merchants, in the ports of India: it is a fact in harmony with all that we collect in later periods, from Pliny, and the Periplüs, and Cosmas; and we may from analogy conclude, that it was equally true in ages antecedent to Agatharchides; that is, as early as we can suppose the Arabians to have reached India. The settlement of their own agents in the country was most convenient and profitable, while the manners and religion of India created no obslacle to the system.

In the middle ages, when the power of the Romans was extinguished, and the Mahomedans were possessed of Egypt, Aden refuned its rank as the centre of the trade between India and the Red Sea. The ships which came from the East were large, like those which Agatharchides describes: they did not pass the straits, but landed their cargoes at this port, where the trankies "or germes of the Arabs, which brought the produce of Europe, Syria, and Egypt,

M. Polo uses the expression Zerme. The stance, that the ships from the East did not Arabs of Renaudot mention the same circumenter the Red Sea.

received the precious commodities of the Eaft, and conveyed them either to Affab, Kofir, or Jidda; when all that paffed into Europe, fill came to Alexandria, and enriched the Soldan's dominions by the duties levied, and the profits of the transit. In this fituation, Marco Polo found Aden's in the thirteenth century; and the account he gives of the wealth, power, and influence of Aden, is almost as magnificent as that which Agatharchides attributed to the Sabéans in the time of the Ptolemies, when the trade was carried on in the same manner.

So far as the identity of Aden and Arabia Felix, there is neither difficulty nor difagreement; but upon the remainder of this extensive coast, from Aden to the Gulph of Persia, there will be few positions in the following detail which will accord with d'Anville's arrangement, or with that of other commentators who have bestowed their attention upon the Periplûs.

## XII. ARRANGEMENT OF THE COAST OF ARABIA ON THE OCEAN.

THE circumstance upon which the whole depends, is the adjustment of Syágros. In common with others, I had supposed its representative to be the modern Ras-el-had; and there is so much to induce this opinion, that I abandoned it with great reluctance, and shall perhaps find great difficulty in persuading others that it is erroneous.

The Periplûs notices Syágros as pointing to the East, and as the greatest promontory in the world. Omana likewise is men-

<sup>100</sup> M. Polo, lib. iii. c. 39. the foldan of Aden at the slege of Acre, in the year 1200. Such a fent 30,000 horse and 40,000 camels, to assist foldan as this might be the Imam of Sana.

tioned with it, answering to the present Oman; and Moscha, seemingly identified with Maskat, the principal port of that province. Under the influence of these resemblances and probabilities, if I had joined in the common suffrage, and called Syágros Ras-el-had in my former publications, wherever it occurred, it is conviction alone, and the abandonment of system for truth, which compels me to recall the error, and acknowledge that Syágros is not Ras-el-had, but Fartaque.

This is a conceffion not made for the purpose of particular accommodation, but grounded on a general analysis of all the positions on the coast, on a combination of all the circumstances relative to the division of the provinces; and upon a painful re-consideration of all that was to be undone, and unfettled, after I had fixed my opinions upon the authority of the best writers, who had preceded me on the subject.

The reader will expect proofs; and the preofs are, that the islands round the whole extent of the coast on the ocean will now fall naturally into their places, which cannot be effected by any other arrangement. The islands in Ptolemy will become relatively consistent with those of the Periplüs; and the Bay Sachalites, which Ptolemy has been accused of transposing from the west to the east of Syágros, is reduced to the different application of a name, instead of a difference in point of situation.

Sachalites is univerfally allowed to be the Greek form of expreffing the Arabick Sahar ".". Now there are two Sahars on the

<sup>&</sup>lt;sup>79</sup> Sahar becomes Sachar by enforcing the Tigris of the Greeks; and Sinus Sachal-ites found of the afpirate, and the change of the is equivalent to Sachar-ites, the bay of Sachar thus, Degel formed into Deger, is the river

coast of Arabia: one that is almost centrical between Aden and Fartaque; and another that lies to the east of Fartaque, between that cape and Cape Morebat or Merbat ". In the first " of these there is little variation of orthography; but the other is written Schæhr, Schahr '73, Shahar, Cheer '74, and Seger. They are both frequented as places of trade to this day. And if we suppose that the first Sahar is the Sachalites of the Periplûs, and the second Shahar, the Sachalites of Ptolemy, the Syágros of Ptolemy will answer to Fartaque as well as the Syágros of the Periplûs, and the two authors will be in harmony with each other.

· Further proofs of this reconciliation will be given in our progress along the coast, and some difficulties that attend it will be acknowledged; but if it should be admissible or probable upon the whole, much indulgence is due in regard to inferior objections; as, upon the first view of the coast before us, no two accounts can feem more irreconcileable to each other than those of Ptolemy and the Periplus.

191 Cape Merbat, called Morebat and Mara- modern, at least I have not vet met with bout in our charts, is a headland much noticed by our English navigators; it is one of the principal fources of frankincenfe; for Al Edriffi fays, in montibus Merbat nefcuntur arbores thuris quod deinde in omnes Orientis et Occidentis partes defertur. It is four days, or an hundred miles, from Hafec, and confequently in the very heart of the diffriel, which is the Sachalites of Ptolemy. I observe in fome authors a division of the coast into Thurifera Regio, Prior and Ulterior: if this is founded, the Prior would be previous to Fartaque, and the Ulterior to the eastward of it; the first would be the Sachalites of the Periplus, and the latter the Sachalites of Ptolemy; and respectively, the Hadramaut and Seger of

it in any ancient author. See Al Edriffi,

272 The first Sahar is meant by Niebuhr, as he places it in the province of Jafa, which lies between Aden and Hadramaut; and he writes it Schähr, Arabie. Tom. ii. p. 125. French edition .- It is likewife the Efcier of Marco Polo, 40 miles from Aden. Lib. iii. c. 40. 173 In the French Voyage, by La Roque

1716, which, with the French pronunciation. is our English Schuhr, pronounced Share.

175 Renaudot's Arab calls it Sihar or Shihr. which is the English Sheer. The produce, he fays, is frankincenfe. The thips of Siraf go to Jidda, but never farther in the Red Sea. Their cargoes are conveyed to Egypt Al Edriffi. But I rather think the diftinction in thips of Colfum, the Red Sen, p. 93.

# XIII. KANÈ.

The first port to which we are to proceed from Aden, is Kane "; the distance is stated at two thousand stadia or more, upon a length of coast inhabited by Bedouins and Ichthyophagi; and if we estimate the number of stadia at two hundred miles, the termination falls very nearly at the Cava Canim of d'Anville, or at Maculla Bay, which lies a very sew miles to the eastward. Our charts take notice of both; and at Cava Canim, which is inferted principally upon the authority of d'Anville, there appear some silets, which may be Orneon "and Troolla, described as desert siles by the Periplus; and which, if they exist, identify Cava Canim for Kane, in preference to Maculla. In point of distance, either is sufficiently exact to answer the purpose; for Maculla is fixty "sleagues from Aden, and Cava Canim eight or ten miles short of that bay.

Kanè is reprefenied as a port of confiderable trade, subject to Eležaus, king of the Incense country, who resided at Sabbatha, the principal city of the district, which lies at some distance inland. Kanè is collected all the incense that is produced in the country, and which is conveyed hither both by land and sea, either by means

Islands, rivers, mountains, and promontories, are our furest guides.

To Orncon is Bird Ifland, fo called perhaps from the univerfal habit of fea fowls reforting to defert iflets; and Troulla has no meaning in Greek. It is faid to lie 120 fladia from Kanè, of which I can find no trace.

m Sixty leagues, or 180 geographical miles, are equal to 208 miles English. See Oriental Navigator, p. 162.

<sup>&</sup>lt;sup>55</sup> I have not been without fulpicion, that Kanê night be Kechên, which I have found written Callin; that is, Kâla ig Oriental pronunciation. Dut I have the same only to guide me to this fulpicion; for Kechên would not agree with the dilance from Adea, or to C. Fartaque, or with the Bay Sachalites, of the Perijlas. Neither have I yet found, in any map or narrative, two illands off Kechên, to correspond with Ornech and Troolis.

of caravans, or in the veffels of the country, which are floats supported upon inflated skins ". Sabbatha is supposed by most of the commentators to be Schibam or Scebam, which Al Edriffi places in Hadramaut, at four stations, or an hundred miles, from Mareb: a certain proof that we have adopted the right Sahar for the Periplus; because Mareb cannot be within three hundred miles of the Eastern Sahar, or Seger; and Seger is not considered by Al Edriffi as a part " of Hadramaut, but as a separate district.

It is remarkable that the author of the Periplus, who notices Sabéa and Oman by name, makes no mention of Ḥadramaut, the third general division of the coast, but distinguishes it only by the title of the Incense country. To maintain that these are the three general divisions of Arabia on the Indian Ocean, is consonant to all the evidence we have, ancient and modern; neither do independent districts or sheiks, as those of Keschin, Seger, or Mahra, interfere with this distribution. And that we are equally correct in affigning the Western Sahar to Hadramaut, is capable of proof; for Al Edrissi says, from Aden to Hadramaut, which lies to the east of Aden, are five 100 fasting and the Hadramaut, which lies to the east of Aden, are five 100 fasting and 100 fasti

<sup>75</sup> These floats are noticed by Agatharchides, and are by some supposed to give name to a tract inhabited by Assitz, from Agado;

Ab Aden autem ad Hadramaut quæ jacet ab orientali latere ipfius Aden, flationee quinque. P. 26.

<sup>&</sup>quot; Terre Hadramaut contermina est ab Hadramaut. griente terra Seger. P. rg.

### PERIPLUS OF THE ERYTHREAN SEA.

At Kanè likewife, as there was an established intercourse with the countries eastward \*\*\*; that is, with Barugaza, Scindi, Oman, and Persis \*\*\*; so was there a considerable importation from Egypt, consisting of the following articles:

Πυρὸς ἀλίγος, - - A finall quantity of Wheat.

'Iματισμός 14 Αραβικός, - - Cloths for the Arabian market.

nomos, - - - Common fort.

απλες. - - Plain.

νόθος περισσότερος, - Mixed or adulterated, in great

Χαλκός, - - - Brafs. Κασσίτερος, - - Tin. Κοράλιον, - - - Coral.

Στύραξ, - - - Storax, a refin.

And many other articles, the same as are usually imported at Mooza. Besides these also, there are brought

'Αργυρώματα τετορευμένα, - Plate wrought, and

Χρήματα τῷ βασιλέι, - - Specie for the king.

"Innoi, - - - - Horses.

'Aνδριάντες, - - - Carved Images.

Ίματισμός διαφόρος 185 απλές, - Plain Cloth, of a superior quality.

<sup>49</sup> Τῶν πίραν ἱρανηλου, I had ſuppofed to mean the marts only on the coaft of Africa beyond the firnite; but, from the utage here, the expredion is evidently extended to all ports beyond the firnite, not only in Africa, but in India and the Gulph of Perfin. <sup>40</sup> Τῆν αναρκαμέρας Πέραγδος, is the coaft of

Persia opposite to Oman.

302

<sup>14</sup> Not cloth of Agabia, but for the Arabian market: fo we fay in the mercantile language of our own country, Callimere cloth; that is, cloth for the market of Callimeer. And the word [umrephic feems to imply, that the cloth was made up into garinents.

" Apparently in opposition to Koods.

The exports are the native produce of the country:

Frankincenfe. Alegros.

Aλón. Alnes.

and various commodities, the fame as are found in the other markets of the coaft. The best season for the voyage is in Thoth, or September \*.

After leaving Kane, the land trends inward, and there is a very deep bay called Sachalites, that is, the Bay of Sachal or Sachar, and of a very great extent. The promontory (which is at the termination) of this is called Syágros, which fronts towards the east, and is the largest promontory in the world. Here there is a garrison for the protection of the place, and the harbour is the repolitory of all the Incense that is collected in the country.

### XIV. BAY SACHALITES, HADRAMAUT.

THIS bay of Sachal has already been afferted to be Sahar: and this Sahar, or "Shahar 166, appears to be a fine town at the pre-" fent day, fituated by the fea-fide; and it may be feen five or fix " leagues off. The point of Shahar is twelve or thirteen leagues " from Maculla Bay;" while the coast, with various curves, but no indenture fo great as the Periplûs requires, stretches E.N.E. to Cape Fartaque 167; and that this Fartaque is Syágros, is the point now to be proved.

<sup>196</sup> Oriental Navigator, p. 162.

<sup>97</sup> Written Fartak, Fartash, Fortuash,

<sup>\*</sup> I request the Reader to correll an error on this fubjell, p. 288. Supra, where it was faid, that the feafon was the latter part of August, and connected with the voyage to Muziris. I now find, that the voyage to the fouthern coast of Arabia was a difinit navigation. They might make it earlier; but they failed later in the feafon, that they might have left time to wait for the easterly monfoon in November.

And first, that it points to the east is true; but it is not true that it is the largest promontory in the world; for Ras-el-had, on the fame coaft, is larger. But it is more conspicuous, and was of more importance, probably, in the author's view, as forming the great entrance to the Gulph of Arabia, in conjunction with Cape Arômata on the coast of Africa; and as such, it is still a point of most material consequence in the opinion of modern navigators, as well as in that of the ancients.

A fecond proof is, that Socotra is faid to lie between this cape and Arômata; which, in one respect, is true, and cannot be applied to Ras-el-had. And a third is, that the islands of Curia Muria, and Mazeira, are to the east of this cape, as they really lie; while, if Svágros were fixed at Ras-el-had, the islands must lie on the west of the Cape, directly transposed from their real position to an erroneous one. But of this we shall treat in its place. We must now return to Sahar, which is confidered in the Periplûs as the heart of the Incense country, and the Incense country is Hadramaut.

Hadramaut is the Hatzar-mayeth of Genefis, which fignifies 188 in Hebrew, the Court of Death; and in Arabick, the Region of Death; both names perfectly appropriate, according to the testimony of the Periplûs, which informs us, " that the incense is collected by " the king's flaves, or by malefactors condemned to this fervice as " a punishment. The country is unhealthy in the extreme; pesti-" lential even to those who fail along the coast, and mortal to the " wretched fufferers employed in collecting the frankincense; who " perish likewise as often by want [and neglect] as by the perni-" cious influence of the climate. The country inland is moun-" tainous, and difficult of access; the air foggy, and loaded with " Bochart Phaleg. p. 101.

"vapours caused [as it is supposed] by the noxious exhalations from the trees that bear the incense; the tree itself is small and low, from the bark of which the incense "se exudes, as gum does from several of our "se trees in Egypt."

The conveyance of this drug by land, Pliny informs us, was through Thomna, the capital of the Gebanites, to Gaza on the coaft of Paleftine, by a caravan that was fixty-two days in its progrefs; and that the length of this journey, with the duties, frauds, and impositions on it, brought every camel's load to upwards of two-and-twenty pounds, English; and a pound of the best fort at Rome, to more than ten shillings. The course of this conveyance is not easy to comprehend "; for if the commodity passed by a caravan, the Mineans were centrical, and the usual carriers from Gersha on the Gulph of Persa, from Hadramaut also, and from Sabéa, to Petra in Idumêa. But we must not understand this as excluding the conveyance of the incense to Alexandria by the Red Sea; for that city was the great repository of this, as well as

19 It has been observed already from Nie-but, that the belt incende is now procured from India, by far more clear, white, and pure, than the Arabian; and it is a circumstance well worth finquiry, where the collection of this gom is attended with the same a fixed effects in that country as were here described; and whether the confequences are clear fixed; and whether the confequences are deducible from the drug field, for shorn the nature of the country. Those who are defenued as the fixed on this subject, may conful? Pliny, 10: 12: C. 14. and \$\$1 standing, 8.8°, r. ft C. 14. and \$\$1 standing, 8.8°, r. ft C.

This is an expression so clearly marking the country of the writer, that it cannot be mis-

taken; and the whole defeription is not that of a man who merely wrote upon the fubject, but of one who had vifited the country, and painted what he faw.

\*\*Bochart places Thomas between Sabbatha and Mariaba, and supposes the Katabéni

and Gebanies to be the fine people; which they are; for Flipm makes Ocial, (Oktilis) a port of the Gebanites, stil. 13: but if fo, it is the territory of Maphartis he mostly place them in; and they would not more by carsan, but by few. Strube, however, makes are and his Katshein are not between Substantial and his Katshein are not between Substantial and Marfaba, but in the territory of Maphartis.

all the other produce of India and Arabia. Pliny 192 mentions this particularly, and notices the precautions taken by the merchants of that city to prevent fraud and adulteration.

The Periplûs does not advert to any particular spot in this bay, or specify any town of Sachal; but, after relating the circumstances as they are here flated, proceeds directly to Syágros. Syágros, or the Wild Boar, would naturally induce a perfuation that it was a nautical appellation, like the Ram Head 193, Dun Nose, &c.; but it is far more probably to be, like Phenicon in the Red Sea, derived \* from the palm-trees observed there, of a particular species, called Svágros: they are of a superior fort 194, as Pliny informs us, with large fruit, hard, and rough in appearance, and with a high relish of the flavour of wild boar. What this flavour is, we may leave to the naturalists to determine; but the allusion to Syagros is manifest; and that the Cape takes its name from its produce, is a natural conclusion. That this promontory is actually Cape Fartaque, cannot be doubted, if we now advert to the particulars connected with it; for we are told, that the island of Dioskórida lies between this point and Cape Arômata, or Gardefan, on the coast of Africa; that it is at a confiderable diffance in the open fea, but nearer to Syágros than to the Cape opposite; and that it is a large island, far exceeding all the others that appertain to the coast of Arabia.

Now although this account is not firictly accurate, for Socotra is not actually between the two capes, but forms a terminating point

<sup>32</sup> Lib. xii. 14. 10 So Kas urraner in Crete.

pusm obtinent nobilitatem Syagri . . . . . tions the Cycas (Kuzos) pomo rotundo, majore

ipfum pomum grande, durum, horridum, quam mali amplitudine. et a cæteris generibus diftans fapore ferino,

quem ferme in apris novimus. Plin. xiii. 4. It is not the coco-nut palm; for, among »- De Palmis. In meridiano orbe praci- his forty-nine species, Pliny afterwards men-

to Cape Gardefan, like our Scilly Islands to the Land's End, and is confequently nearer Africa than Arabia; fillil, speaking generally, the description in other respects is sufficiently correct. The most transfent reference to the map will at least prove, that none of these circumstances can be applied to Ras-el-had; for that cape lies almost seven hundred miles farther to the north-east, and can hardly be faid, in any sense, to be opposite to Gardefan, but by drawing a line of such extreme obliquity, as would never occur to the mind of a mariner under the idea of an opposite promontory.

# XV. DIOSCÓRIDA, OR SOCOTRA.

DIOSCORIDA, Diofeorides, Diofeùrias, or Diófeora, may have a Greek origin, but it has fo near a refemblance to Socotra or Zocotora, that it is much more likely to be a nautical corruption of an Arabick term, than the application of a Greek one.

This island is near an hundred miles long, and thirty at its greatest breadth: it was inhabited only on the northern or fide in our author's age, and the population there was very scanty, confisting of a mixture of Atabians, Indians, and Greeks, who had resorted hither for

<sup>30</sup> In the French Voyage publified by J.A. Roque, 1916, Priss—Tammin, the espital of the ifinad, was fill on the oorth fide. He mentions alife, that it was fullyed to the field of Fartaque, the fance probably as the first of Kfañ; though the calls Fartaque the capital, and Seger, or Schochr, the port (p. 151). The French obtained here aloes, at eight piatres the quintal of 95 pounds p befides frank-incenfe, circle, and gum dragon. Tamarin

was a well-bulk town. There are two voyages contained in this work; and in the fecond, a party went up from Mokha to Sans, who fpeak well of the Arabs, and the Imam's government. It is a curious work, well digetled and pat together; and the more worthy of confideration, as I know of no other Em-ropeans who have been at Sana, except Barthema and Nibolahr.

the purposes of commerce; while the remainder of the country was marshy and deserted. Marco Polo informs us, that in his time the inhabitants were Christians; and Al Edrissi confirms this, with the addition, that the Greeks were introduced there by Alexander 100, at the request of Aristotle 100, in hopes of obtaining aloes, the principal produce of the island, and of the best quality that is known. Now it is remarkable, that aloes is not mentioned by the author of the Periplis; but he notices particularly the drug called Indian 100 cinnabar, which exudes from a certain species of trees, and tortoises the mountain or land-tottoise, which has the lower shell of a ruddy yellow, and too hard to be cut; and that from the folid part of this were formed cases 100, boxes, and writing-tablets [of great value].

When he was returning, fays Al Edriffi, from the Persian Golph to the Gulph of Arabia: which, unfortunately, he never did; and equally unfortunate is he in the reason he affigus for the inhabitants being Christians, because Alexander planted Greeks there.

Cofimas Indicopleuties fays, they were Greeks from Egypt; he was not at the filand, but converfed with fome of the natives in Ethiopia: they were Chriftians, and their priefs were from Perfis, that is, they were Netlorians. Bayer Hift. Bach. p. 111. in Montfaucon's Edit. of Cofinas, p. 130.

Marco Polo fays, in Moful on the Tigats, hanno un patriarcha che chianano Jacolit (catholicos) il qual ordina-Arci Vefcovi, Vefcovi, & Abbath, mandamololi per tutti le partie deil India & Al Cairo, et in Baldach (Bagdat), & per tutte le bande dove habitano Chriftiani . . . non proe fecosodo che commanda la

chiefa perche falla in molte cofe, et fono Neftorini, Jacopiti et Armeni. Lib. i. c. 6.
<sup>20</sup> Dapper mentions aloes, ambergris, and

gum dragon, &c. from a tree called Ber; and notices the Arabs from Caxem (Kefchin), and Fartaque as ruling. They are not now Chriftians, he lays; but have chriftian names, as the remains of that religion.

<sup>56</sup> The native cinnabar is a mineral; and what is meant by Indian cinnabar that difful from trees, is not eafy to 'determine. But I find in Chambers's Dictionary, that there has been a ftrage confution between cinnabar and dragon's blood; the dragon's blood therefore is meant, which is one of the natural pro-

ductions of the island.

39 Al Edriffi, speaking of the tortoise-shell at Curia Muria, says, dorsa testudinum ex quibus conficiunt sibi incolæ Iaman paropsides ad lavandum & pinsendum. P. 24. He informs us alfo, that there were feveral rivers <sup>300</sup>, and abundance of crocodiles, finakes, and large lizards; from the laft of which they expressed the fat, which they used for oil, and the slesh for food: but they had neither corn nor vines. Some few merchants from Mooza visited this island; and some that frequented the coasts of India and Cambay touched here occasionally, who imported rice, corn, India cottons, and women <sup>301</sup> slaves, for which they received in exchange very large quantities of the native tortosis-shell.

In the author's age; this island was subject to Eleázus, the king of Sabbatha, who fet the revenue to farm ", but maintained a garfison for the purpose of securing his receipts and supporting his authority. This fact is similar to what we had occasion to notice on the coast of Africa, where several of the ports in Azania (or Ajan) were subject to Charibáel and Cholébus, whose territories were in Yemen; and Niebuhr informs us, that Socotra is at this day subject to the sheik of Keschin, who has considerable possession in Hadramaut; and Keschin, which lies a few leagues to the westward of Fartaque, cannot be very distant from the territory of Eleázus.

The confiftency of these circumstances in the ancient and modern accounts, may induce a persuasion that we have traced out our way so far with certainty and precision; the next step we are to advance, is the only one on the whole coast which will raise a

<sup>\*\*</sup> The water here is very good; it mass from the mountains into a fandy valley among date trees. The natives are civil to flrangers, but very poor; and the only commodily to trade with, & rice an article in the Periplicafor which we had in exchange from cows, goets, fifth, deter, good aloes, and gum dragon.

The prince, or viceroy, refides at Tamarida, on the north fide of the island. Capt. Blake, Oriental Navigator, p. 149.

an Lunara Sound his order and try years a carried there, because they had few women for the haram.

<sup>. 2&</sup>quot; Il rero; leutple Berou.

doubt, and which has certainly been the fource of the conftant opinion embraced by modern being egographers, that Syágros is not Fartaque, but Ras-el-had.

# XVI. MOSKHA AND ÓMANA.

I SHALL state this circumstance in the very words of the author; for he says, "Adjoining to Syagros there is a bay which runs "deep into the main land [of] O'mana, fix hundred stadia in width; after this there are high mountainous rocks, steep to, and inha-"bired by a [wild] race, that live in caverns and hollows of the "cliff. This appearance of the coast continues for five hundred stadia more, at the termination of which lies a harbour called. "Moskha, much frequented "so on account of the Sachalitick incenses which is imported there."

It \*\*\* is the mention of Mofkha and O'mana here that neceffarily fuggeffs the idea of Mafkat, which is in Oman, and the principal port of trade in the province: the defeription of the mountainous coaft is characteriftic; and the difftance, supposing Ras-el-had to be Syágros, not incongruous. I cannot account for this coincidence; but I do not think that Mofkha is Mafkat, because Mafkat is beyond. C. Ras-el-had j; and I shall shew immediately, by the islands which fucceed Mofkha, that we are not yet arrived at Ras-el-had by four brundred miles. Neither will the Mofkha of Prolemy solve the diffi-

it is Fartaque. Phaley, 106.

<sup>&</sup>quot;". Bochart supposes Syágros to lie between "" Oyior örandovisior, the appainted, the regard to the Sachalites which is true in regular ports.

""Opini örandovisior, the appainted, the regular ports."

<sup>24</sup> Ent βάθα; ledisus les vols deruges, Ouessa.

Erythrée, Academie de Belles Lettres, tom.

culty; for he carries it farther back than the Periplûs, and has placed it to the westward of Syágros, which is bis Fartaque likewise, as well as the Fartaque of our author.

The mention of O'mana here is still more unaccountable; but I was in hopes to have reconciled it by means of a river O'manus, or Hormanus, which Ptolemy has in his Bay Sachalites, and which he brings down from a place called O'mana. This, however, is not to be depended upon; for his map is so distorted on this part of the coast, that it leaves the whole matter in uncertainty. One circumstance only can be deduced from it; which is, that his Ormanus and O'mana are both to the westward of Ras-el-had, as well as the O'mana and Moskha of the Periplûs: the proof of which is, that they both precede his Koródamon, and Koródamon must be the, representative of Ras-el-had, as it is his extreme point east of the whole peninsula.

There are no data for placing the Moskha of the Periplus, but the distance of eleven hundred stadia from Syágros; and this measure brings it nearer to Seger, the Sachalites of Ptolemy, the Schechr of the moderns, than any other place it can be referred to. At. Moskha, the mention of the Bay Sachalites is again introduced by the Periplus; for the author informs us, that throughout the whole extent of that bay, in every port, the incense lies in piles without a guard the top of the second of the power for its security. Neither is it possible to obtain a cargo, either pub-

There is nothing very extraordinary in firsts of Panama; but in Seger, befides the protection of the jeeds, the finelt feelbut to keep sable, and finultarity with the tight of it, take good watch, if a fingle, grain a cannot fine got . off from the edge of deprehation. Burs of off till the duty is paid.

liely or by connivance, without permission of the king. Nay, if a fingle grain were embarked clandeftinely, good fortune indeed must the merchant have who could escape with his vessel from the harbour.

At Moskha there is a regular intercourse by sea with Kane; and such vessels as come from Limúrike \*\*\* and Barugaza, too late in the season, and are obliged to pass the adverse monstoon in this port, treat with the king's officers to obtain frankincense in exchange for their muslins, corn, and oil \*\*\*.

If it should now be asked, whether I am myself fatisfied with the account here given of O'mana and Moskha, I could not answer in the affirmative. These two names certainly throw a shade of obfeurity and difficulty over the arrangement of the coast; and if this barren subject should be reviewed by a future commentator, much pleasure would it be to see those obstacles removed, which I have not been so fortunate as to surmount.

Still that, upon the whole, the affumption of Fartaque for Syágros is right, depends upon proofs now to be produced, which are incontrovertible; for we are now advancing to two groupes of islands, which are the most confpicuous of any that are attached to the coast of Arabia on the ocean; and as islands, rivers, and mountains, are features indelible, in these we cannot be mistaken.

# XVII. ISLANDS OF ZENÓBIUS, OR CURTA MURIA.

Ar fifteen hundred stadia distance from Moskha, which I have supposed to be Seger; and at the termination of the district called

<sup>×4</sup> Conean and Cambay.

<sup>29</sup> Probably ghee, or liquid butter.

Asikho, there are seven islands, almost in a line, called the Islands of Zenóbius. Now the distance answers to make these the islands in the Bay of Curia Muria, the Chartan " Martan of Al Edriffi; and though he fays they are only four, and four only they appear on our charts, it is conclusive in their favour, that he styles the bay Giun-al-Hascisc "; and Hasek (the Asikho of the Periplus) is the principal town in the bay at the present hour. Hasec \*\*\* Al Edrissi calls it himself in another place, where he mentions only two islands. as Chartan and Martan; and fays, it is a small city, but populous, and the bay deep and dangerous. The four islands have now obtained the names of Halki, Sordi, Halabi, and Deriabi; and it is possible that some rocky or deserted islets attached to them may have caused them to have been reckoned feven; for feven they are in Ptolemy alfo, placed in the same relative fituation between Fartaque and Ras-el-had, though not correct in their vicinity to the coaft.

### XVIII. SARÁPIS, OR MAZEIRA.

FROM Hasec, or Asikho, we have, first, a tract inhabited by a barbarous tribe "3, not subject to Arabia but Persis "4; and at the distance

<sup>200</sup> Bochart fays, that by a change of the points, he reads Curian Murian for the Charten Martan of Al Edriffi.

<sup>&</sup>quot; Sinus Herbarum, Al Edriffi, p. 22 .-P. 27. he makes Hafee the city, and Al Hafeife the bay; But are they not the fame name?

<sup>&</sup>quot; Here Ptolemy places the Aicitæ, whose name he derives from doxos, because they fail on floats supported on inflated fkins; but this is giving a Greek derivation of an Arabick

name. Bochart conjectures, with much more probability, that they are the inhabitants of the fovereigns of Arabia should have terri-

Hafek; and that Ptolemy's Maphat is a corruption of Merbat, as it is written in Al Edriffi, the C. Morebat of our charts, Pha-

leg. 106. 112 Hi ald alug trajantiant de cudius dioxitius and the Znocke : rendered by Hudion, Hane ubi ex supernis locis pratervectus fueris : but 60' plac means keeping off thore by a direct

course, in opposition to supposers or following the bend of the coast.

<sup>24</sup> This is no more extraordinary than that tories

diffance of two thouland fladia from the Islands of Zenóbius, another island called Sarápis. Sarápis, it is added, is an hundred and twenty fladia from the coast, two hundred fladia in breadth, and contains three villages, inhabited by priests, or recluses, of the Ichthyfophagi, who speak the Arabick language, and wear girdles or aprons made of the fibres of the cocca. "Penty of tortoile-shell, and of a good quality, is found here, on which account it is regularly frequented by the small vessels and barks from Kanè.

If we should now consult the chart, and examine the size of this island, and its distance from the isles of Zenobius, which we may estimate by the stadia at about two hundred miles, we identify it to a certainty with Mazeira; for there is no other island of this size, or at an hundred and twenty stadia from the coast, or perhaps capable of containing three villages, any where to the westward of Fartaque, or the eastward of Ras-el-had. It must therefore lie between these two points, and precisely ascertain, that we are past the one, and not yet arrived at the other; and likewise, that the isles of Zenobius must, by their distance and relative situation, be the Curia Muria of the present day, notwithstanding their disagreement in point of number.

Mazeira is well known to modern navigators: its fize and fituation are fufficiently afcertained, and there is a channel "between the ifland and the main, through which English ships have passed.

tories on the coalt of Africa. In Niebahr's lind obtained it likewife. Cloth is fill made time, the field of Abic Schahr, or Buffeer, of the fibres of the mrt; whether the leaves in Perfis, was mafter of Bahrain on the western asked a substance for wearing, or whether coast of the Gulph of Perfis.

<sup>\*\*</sup> Πορζόμους φόλλος ΚΟΥΚΙΝΩΝ. We find doubted; the ext is in favour of the leaves. the Coton Palm-tree (as far as 1 20 Oriental Navigator, pp. 167, 163. can learn) firm mentioned in this work. Pliny

D'Anville has supposed that Sarápis is the same as Mazeira, without considering that if it be so, it is to the west of Ras-el-had, and that therefore his Syágros, which is fixed at Ras-el-had, cannot be correct.

### XIX. ISLANDS OF KALAIUS, OR SUADI.

Upon leaving Sarápis, we have another diflance of two thousand fladia, and then another group, called the Islands of Kalaius. The difflance is too short ", but the islands are those of Suadi or Swardy, which lie between Maskat and Sohar, and which, according to M'Cluer ", are formed into four ranges for the space of seven leagues, with a clear passage between them. In assuming these islands for those of Kalaius, there can be no error, for the language of our author is precise: he says, that as you are now approaching the Gulph of Persia, keeping close " round the coast, you change

in I should read energy for dergoing; but though I have suggested corrections, I have never ventured on an alteration of the text.

" Oriental Navigator, p. 181. & 175.
" Παρκολαίζετο δι του Εχομέσιο έπτικου, δες

όντης τη ΑΡΚΙΟΝ τός περί της ιστόσλης της Περ σκός, θαλάσσης, κίνται τήσου πλείμησας, [πλείνης, Stuckinz.] Καλάικ λεγόμους, τήσος, σχέδο καί ταδίκς δισχύλιες παρεσμένας τη χώρο.

Thus rendered by Hudson:

In finu autem viciniz continentis, ad feptentriones, prope offium maris Perfici infulzjacent, ad quas uavigatur, Calesi infulz dicties, quæ fere bis mille fladiorum, intervallo a continente funt disjunctiz.

But how iffands that lie two handred miles from the coalt, can be faid to lie in a bay of the continent, is not easy to comprehend. I propose banksharm, or emenations, possed or failed through, for whetherm, and to render the nastine thus.

[Proceeding on your course from Saránis] you wind round with the adjoining coult to the north; and as you approach towards the entrance of the Gulph of Perlin, at the distance of two thousand flurils [from Sarápis] you pais a group of islands, which he in a range along the coast, and are called the Islands of Kalairus.

I imagine that capranism of xure cannot be rendered better than by describing the

the direction of your course to the NORTH. This is literally true at Ras-el-had, and no where else on the coaft; for Ras-el-had is the extreme point east of all Arabia; and as soon as you are past it; the coast falls back again to the north-west. If we could reckon the two thousand stadia from the point where this alteration of the course takes place, that is, from Ras-el-had, the distance also would correspond.

After arriving at these islands, if we should review the whole course from Fartaque to Ras-el-had, there is nothing to interfere with the general statement, except the mention of O'mana and Moskha; and no single point ought to stand in competition with the whole. At the distance of eighteen hundred years, it is difficult to say whether the obscurity lies with us, or the author; one should rather acquit the author, who is so correct in other respects, and look for a solution from some future lights, which may appear, either from a better knowledge of the coast, or from some better readings of the commentators, considering that the copy which we have is certainly defective, and that no manuscripts are to be expected.

ishada sa "hipu io a cange." Perhaps it findud he read resperenciasis, and this is the precise distinction of McCleer. She may be read either with he known in "known, or with wall not social," "as you are july approximate to Gulpé of Perha le Jilland," and a place a comma at known, in order to inske it expects the distance from Saripis; but if it he joined with the final chance, it must be rendered, the things of the Saripis and the size arenge "to the final chance have been described in a renge "to the final chance have been described." This is not true; either can we firect the fiven

legues of MClare, or one-and-twenty miles to two hundred. Hunder-glow, figuities literally, to kep the tes the forest to follow the woulding of the flower. But whatever doubt, there may be agagering the contents of the whole paffing, "Salling on the more plain than this one circumflance, that the courie of the worse is changed here to the NORTH, and this particular can be true only at Raze-Lind. This is the truth we have been feetching for, and I think the proof is concludive.

The natives, on the main opposite to these islands, are said to be treacherous, and their vision to be defective during the light of the day: what the latter circumstance may allude to, it is not material to inquire, but their treachery is natural if they are Bedouin Arabs, as Lieut. Porter <sup>282</sup> says they were in his time at Sohar, and not civilized in their behaviour to the people of his boat.

## XX. ISLANDS O'F PAPIAS.

We have now the Islands of Papias, and the Fair Mountain, with the entrance of the Persian Gulph: for the first, we must look to two or three sinall islands our the coast, beyond Sohar, towards the north; and at the last of these the Journal places the Fair Mountain, which would answer sufficiently to Cape Fillam, if that be high land; and not far from Fillam are the Straits.

It is not improbable, however, that the Islands of Papias may be

the Coins, which lie immediately off the entrance of the gulph; for, in a letter of Lieut. M'Cluer to Mr. Daltymple, he writes, "the Great Coin...lies in lat. 26° 30′ 0″ north... and there are four other iflands between this and Cape Muffeldom, all of them smaller than the Great Coin, and none of them inhabited...

"Befides these, there are seven others close in, which are not easily distinguished from the Arabian shore." But the determination of the question will depend upon the position in which we view the islands; for they seem to lie within Moçandon, while those of Papias precede it. We must likewise find a place for the Fair Mountain between them and the Cape, for which there seems hardly space sufficient.

20 Oriental Navigator, p. 177.

# XXI. SABO, ASABO, OR MOÇANDON.

It is well known that Moçandon is reprefented in Ptolemy by the black mountains called Afabo, the promontory of the Afabi; and that Sabo fignifies South, defignating, as it should feem, in the mind of Arabian navigators, the extreme point fouth of the Gulph of Persa. A tribe is also noticed in the neighbourhood, which is called Macze both by Ptolemy and Arrian; and in Macze we obtain probably the rudiments of Moçandon which we have from the Portuguese. But the Orientalists give a different etymology, and inform us, that Mo-falem is the Cape of Congratulation.

Moçandon is of vaft height, and frightful appearance; it forms, with Mount "Ehowrs, or Elbours, on the opposite shore, the entrance to the gulph, which is near forty miles broad, estimated at fixty in the Periplös; and Elbours is called the Round Mountain of Semiramis: it is round in fact, and has its modern name of Elbours from its supposed resemblance to the Fire Towers of the Guebres or Parses.

Meçandon is a fort of Lizard point to the gulph; for all the Arabian fhips take their departure from it, with fome ceremonies of fuperfittion, imploring a bleffing on their voyage, and fetting afloat a toy, like a veffel rigged and decorated, which, if it is dashed to pieces by the rocks, is to be accepted by the Ocean as an offering for the escape of the veffel.

Whether the author himfelf paffed this cape, and entered the gulph, is very dubious; from the manner of the narration, I should conclude he never entered the gulph; for he mentions only two particulars within the straits, and then introduces the passage across the open seasfrom Arabia to Karmania.

These two mountains opposite, are the Owair and Kosair of Al Edriss, p. 4.

# XXII. TERÊDON, APÓLOGUS, or OBOLEH.

Bur the two particulars noticed are remarkable: the one is the Pearl Fishery, which extends on the bank great part of the way from Mocandon to Bahrain; and the other is the fituation of a town called Apólogus, at the head of the gulph on the Euphrates. and opposite the Fort of Pasinus or Spasinus. There can be no hefitation in adopting the opinion of d'Anville, that Apologias is Oboleh, upon the canal that leads from the Euphrates to Baira: for Oboleh is fituated, according to Al Edriffi and, at the angle between the canal and the river; and he adds, that the eanal covers it on the north, and the river on the east; confequently, this is as nearly opposite to the Fort of Pasinus, as the canal is to the Haffar River, which communicates with all the mouths of the Tigtis and Euphrates.

Apólogus is Greek in its external form, but much more properly deduced, as d'Anville observes, from Oboreh, which, with the Brone oriental aspirate, becomes Obolehh or Obolegh. We may confequently assume this for a proof of its existence as a place of commerce at so early a period, when it had probably taken place of Terédon or Diridótis, as Bafra took place of Obolek under the fecond Caliphate 23, of the Mahometans; but that Oboleh continued a mart of confideration long after the building of Basea "4", we may

pp. 3, 4-

<sup>10</sup> P. 121.

<sup>&</sup>quot; Abilfeda Reifke, p. 113.

<sup>24</sup> Al Edriffi mentions Bafra fufficiently; but in his general description he says, Ab. mari Sin derivatur mare Viride, eftq; finus: Perfix et Obolia. . . . . . finus pervenit ufque

Mare Viride, - . the Persian Sag. Mare Fulyum, - the Cafpian.

Mare Candidum, - the Propontis. Mare Nigrum, - the Esxine

Mare Venetum . - the Blue Sea, or Mediterranean.

ad Obollam prope Abadan, ibiq; terminatur;. Why do we dispute so much about the mare Rubrum?

be affured by Al Edriffi's making it the termination of the dulph, as well as the Periplûs; and Oboleh, or a village that repy fents it, fill suffs between Bafra and the Euphrates; the canal alfo is called the Canal of Obokeh.

Teredon had been a city of great trade from very remote times; that is, from the age of Nebuchadnezzar to the Macedensan conquest. It feems to have continued so till the time of Augustus, for it is mentioned by Dionyfius are; deferted afterwards, ne haps, from the failure of water in the Khore Abdillah, or ancient mouth of the. Euphrates, and replaced by Oboleh, probably during the dynafty of the Arfacides. The Babylonians, who commanded the river from the gulph to the capital, doubtless made use x of it as the channel of Oriental commerce; and the traffick white flad paffed by Arabia, or by the Red Sea, through Idumêa, to 'glypt, Tyre, and other places on the Mediterranean, was diverted by Nebuchadnezzar, after the destruction of Tyre, to the Persian Gulph; and through his territories in Mesopotamia, by Palmyra and Damascus, it passed through Syria to the West. After the conducts of Babylon by Cyrus, the Persians, who were neither navigators to the East, nor attentive to their frontier on the west, suffered Babylon, Ninevch, and Opis, to fink into ruin; the course of trade, therefore, returned to Arabia on the fouth, to the Caspian 200 and Euxine on the north: Iduméa became again the refort of the caravans; and Tyre rose out of its ashes, till its power enabled it to maintain a siege of eight months against Alexander, in the career of his victories.

<sup>&</sup>lt;sup>40</sup> Déorgina is dat to be the verifier of Allamirs, then door in the Pathly or Anthenius Dentellement's Geography is 16, is a suite the Entire in guldation's time, then the parties of the parties o

### XXIII. ORIENTAL COMMERCE BY THE GULPH OF PERSIA.

WHAT views this Conqueror had after his first victories, we can only conjecture; but after his return from India, we may be affured that his comprehensive mind had embraced all that valst furder which was afterwards completed at Alexandria. His fuecesfors, the Ptolemies in Egypt, and the Seleucidæ in Syria, were rivals in this commerce; Palmyra, Damascus, and Anticeh, all lie on the line of the caravans from the Persan Gulph; the Caspian and the Euxine were again frequented, and the commerce on this fide enriched the kingdoms "of Prusas, Attalus, and Mithridates; while the navigation on the Indian Ocean, built upon the same foundation, made Alexandria the first commercial city of the world. Egypt, maintaining its intercourse with the East, in the first inflance by means of the Sabéans, and finally, by sleets fitted out from its own ports on the Red Sea.

the Romans would not fuffer the Parthians, to any of the southern nations, to traffic by the Eurise, but confined the whole trade to Alexandrin, and the maritime intercounte with India. See Herodotus, lib. iv. and Pliny, lib. vi. 5.

Diofedrias was on the Anthemus, one of the rivers that came out of Caucafus into the Euxine.

Diofetriso was called Schaftopolis in Adrian's time, and the last fortification of the Roman empire. Artian, who vifited it, mentions nothing of its trade. Artiani Periplia Maris Euxisi, p. 18. I find nothing of the Anthemus; but the Phafis was navigable for thirty-eight miles. Second Periplus Eux. Ses, Hudfon.

<sup>&</sup>quot; It would be foreign to the prefeat work to purfice the lengthy into this commerce, as curried on by had not be north. But it from to have existed in the time of Ergodoma, who to have existed in the time of Ergodoma, who yield the prefeat had been been as the prefeat had been been as the prefeat had been been as the prefeat had been as

<sup>\*</sup> Marcian Herichteta. Hudfon; p. 64, fays, that Timofibenes wrote a very imperfect work on Grography, and Eracothenes copied him verballen. Timofibenes was a Rhodian. See an Account of his Work, ibid.

In the following ages, the dynasty of the Arsacidæ divided these profits with the Romans; and in the decline of the Roman power, the revived Persian dynasty assumed such an ascendancy, that in. the time of Justinian the Romans had recourse to the powers of Arabia and Abyffinia, to open that commerce from which the Perfians had excluded them; and when the Perfian dynasty funk under the power of the Chaliphs, the Mahomedan " accounts of the plunder found at Cteliphon, prove the full poffession of the Indian commerce by the Perfians.

### XXIV. CAIRO.

UPON the erection of two chaliphates, one at Bagdad, and the other at Cairo, the commerce of India was again divided; but the greatest part of the precious commodities which reached Europe. came through the hands of the Venetians from Alexandria, till the Genoese opened the northern communication again by means of the Euxine, the Caspian, and their settlement at Cassa in the Crimea.

who gives the same history of procuring filk -. worms as Procopins. When Sad, the general of Omar, took Cteliphon or Modain, the carpet is particularly palace of Chofroes, he found in it aloes, aloes mentioned. See Abilfeda Reifke, 70; but. other particulars are omitted.

ger, filk robes, wove carpets, embroidered

carpets, and bullion. Cedrenus, p. 418 .-

Μετάξα . . . . . Σηροι είματα. Glycas, p. 270.

<sup>215</sup> Procopies, lib. i. c. 20. mentions Justinian's application to the king of Abyffinia to obtain the importation of filk : but the Abvffinians could not effect this, the Parthians [Perfians] having feized on the emporia. Paolino, p. 96.

<sup>&</sup>quot; When Heraclius took Deltagherd, the wood, mataxa, filk thread, pepper, mullins, of mullin frocks without number, fugar, gin-

### XXV. CRUSADES.

In the eleventh and twelfth centuries, the Crufades opened to the eyes of the Europeans the fources of this Oriental wealth. The lofs of the kingdom of Jerufalem enabled them to dicover, that the power of Saladin was founded on the revenue derived from the commerce which paffed through Egypt; and the work of Marin Sanuto \*\* is a Memorial preferted to the Pope, and the principal fovereigns of Europe; in order to infrut them, that if they would compel their merchants to trade only through the dominions of the chaliphs of Bagdat, they would be better fupplied, and at a cheaper rate; and would have no longer to fear the power of the foldans in Egypt.

What those fovereigns did not, or could not do, was effected three centuries later by the discovery of the Cape of Good Hope: or this discovery Europe is certainly indebted for the decline of the Turkish power, which at that time threatened the whole Western

This curious work is inferted in the Gefa Del per Francos: it is highly interedige, both upon account of the commercial intelligence it contains, and the clear-fighted feculations of the author. I owe the knownledge of it to Bergeron, who has cited it in his Treatife on Commerce annexed to his collection- of Voyages, which is itieff also a most valuable work. The editor of the Cefa Dei, &c. tays, he had the Memorial of Sanuto, in two MSS. copies; from Sealiger and Petavius; that one of thefe was bound in velvet. and ornamented with chips, &c. fo as to affure him that it was one of the original copies, prefence by Stanuto, hindle for form

one of the princes; if (o, I imagine; it contains the addeft map of the world at I this day certifling, except the Petuliogrish Tables; for Masin Sanato lived in 13:44. His map, however, is whelly in the Arabie form; and, I conclude, built on one that he had procured when in Palvine. There is nonther Livio Sanato, a geographer in the 16th exampt, whole work I have feen in the King 2 Library, but not examined; it feemed a valuable work to the age. In this Sanato's time the India trade had fettled again at Adea, where it was when the Romans defuryed that cirj's 1500 years before. See lib. i. c. 1. The whole is worth confullibre.

world; and the various other important confequences which enfued, are too well known, and have been too well detailed in history, to require infertion in the prefent work.

Of the interior of Arabia we know little to this day; but that, notwithstanding the danger of robbery, caravans of great value traversed it in all ages, we have certain evidence to depend on. Previous to the Periplus, we have the testimony of Strabo and Agatharchides; in the middle ages, the account of Al Edrissi; and, in our own time, we want no other proof than the English importations at Jiddah, which reach Mecca at the time of the Pilgrimage, and from thence seem to be dispersed over the whole peninsula.

At Grane likewife, in the north-west angle of the Persian Gulph, there has been a considerable importation till within these few years; and at El Catif, near Bahrain, which is the Gerrha of the ancients, there is some commerce besides the returns for the Pearl Fishery; but with the progress of which, inland, we are unacquainted.

Somewhere in the neighbourhood of Grane was the feat of Abdul Wahab, who, with his army of deiths and democrats, has plundered Mecca within these three years, upon the same principle as his brethren in Europe demolished the Church of their own country, and with much the same event to the plunderers; for Abdul Wahab is said to have fallen by the hands of an assassing as the first democrats of France have mostly perished in the course of the revolution.

### XXVI. GERRHA.

GERRHA is one of the few towns in Arabia that Pliny has enabled us to fix with certainty; for he comes down the western coast of the gulph, which, he fays, was never explored till vifited by Epiphanes; and which is little known to any now except the natives : but Pliny, after passing the island of Ichara, and one or two obscure places, mentions Gerrha as a city five miles round, and the walls or towers built of foffil "" falt. This is a circumftance true (I think) only at Ormus and El Katif, which, added to the fize of the city, afcertains its identity. It is necessary to be particular in this respect, because the Gerrheans are the first conductors of the caravans upon record ; and it is highly probable, that long previous to history they enjoyed the profits of this traffic; for Agatharchides 212, who first mentions them, compares their riches with those of the Sabeans; and adds, that they brought much wealth into Syria, which was at that time fubject to Ptolemy; and furnished a variety of articles for the induftry of the Phenicians. By this we underfland, that they croffed the whole peninfula to Petra in Idumêa, from which city we know that the intercourse was open with Tyre, Phenicia, and Syria. Strabo 233 informs us, that they were the general carriers of all the produce of Arabia, and all the spices, or aromatics; but he adds likewife, that Aristobûlus contradicts this, and fays, that they go up the

<sup>&</sup>quot;" Strabo alfo, lib., xwi. p. 766. Charre

"HoffonGeog Min. Agatharchides, p. 6. p. 765. The Gerrhäus are the twelling learning and the following size of the first policy and first policy an

Euphrates in boats, to Babylonia and Thapfacus, and from thence difperfe their commodities in all directions by land. Both thefe relations may be true, as applied to different periods, in confequence of the obstructions they might meet with in their course, from the different powers of the several countries through which they were to pass \*\*.

The Gernhans, we may naturally suppose, from their situation in the Gulph of Persia, and from their proximity to the opposite coast of Persia and Karmania, would lie more convenient, and more directly in the route of communication with the East, than any other tribe. And, as Agatharchides says, that the Minéans and Gernhans both met at Petra as a common centre, we have two routes across the peninsula, correspondent to the two forts of commerce, which ought naturally to pass in different directions: for from Gernha, the produce of India; and, through the country of the Minéans, the frankincense of Hadramaut; would regularly be directed to Idumea.

### XXVII. MINĒANS.

The fite 30 of the Minêans is not eafy to fix; but by a comparition of different accounts, they were fouth of Hedjaz, north 30 of Hadramaut, and to the caftward 30 of Sabêa; and they were the carriers to all these provinces: their caravans passed in seventy days

<sup>\*\*</sup> See Al Edriffi, p. 121.

\*\* Bochatt Phaleg. p. 121. places them at Carno I Minazoli, lippoling it to be the Carna Finazoli, lippoling it to be the Carna Finazol. Fliny, vi. 28.

or Carna of Pliny. Prolemy places them at which further fouth Carno I Manazoli is but I think Diorsfitta along blaces them on the coaft, but much further fouth Carno I Manazoli is but I think Diorsfitta along the coafficient of the Carno I Manazoli is but I think Diorsfitta along the coafficient of the Carno I Manazoli is but I think Diorsfitta along the Carno I Manazoli is but

from Hadramaut to Aila, as we learn from Strabo are; and Aila is but ten miles from Petra. The commodities brought by this caravan would be aloes, gold, myrrh, frankincense, and other precious gume or aromatics; while those from Gerrha would consist of cottons, fpices, and the produce of the East.

As navigation encreased on the coast, this mode of intercourse, and its profits, would naturally diminish. When the Ptolemies fent their fleets to Sabêa; when the Greeks, Egyptians, or Romans, reached India by the monfoon, the greatest part of what had passed through Arabia would be diverted into a new channel; in the fame manner as the discovery of the Cape of Good Hope ruined the commerce of Alexandria. But that fome intercourfe existed, and that fome caravans traverfed Arabia, both in the middle ages, and do traverse it even to this hour, is a fact that cannot be disputed.

After the conquest of Persia by the Mahomedans, a road was made across the whole of the peninsula, from Mecca 19 to Kufa: it is reported to have been feven hundred miles long, marked out by diffances, and provided with caravan ferais, and other accommodations for travellers. Into this road fell the route from Bafra, and from El Katif or Gerrha. The province of which El Katif is the capital, is called Bahrain 240 by Al Edriffi, from the two islands of that name which are the principal feat of the Pearl 241 Fishery. He speaks of El Katif as a confiderable city in his time; and he gives the routes

cefs : but as the diffance is taken from Hadra- the road was made by Ol Madi Khaliph, anno mant to Aila, it may not exceed the propor- Heira 160, the post goes in eleven days. tion of 60 days from Minca to Nera, attributed to Gallas.

<sup>239</sup> From Mecca to Bagdat, according to Abilfeda Reifke, p. 154. wells, lakes, mile- 28.

<sup>258</sup> Lib. xvi. p. 768. the time feems in ex- posts, for 700 miles. See Gibbon, v. 409. 240 Bahrain, in Arabick, fignifies the two feas.

<sup>24</sup> Tylos margaritis celeberrima. Plin. vi.

from it fouth to Sohar, north to Bafra, and weft to Medina \*\*\*; the country on the fide towards Bafra is a defert feldom frequented by \*\*nerchants\*, without villages, and inhabited only by Bedouins. But the route to Medina falls into the road that leads from Bafra; and both Bafra and El Katif are at equal diffance, that is, twenty flations from that city, where is the fepulchre of Mahomet. The road from Bafra falls into that from Kufa at Maaden \*\*Alnoera. I mention these circumflances, in order to fhew the communications with El Katif, or Gertha, in the middle ages; because they cannot be diffimilar from those which were open when Gertha was a centre of Oriental commerce; and the route which led to Medina requires only a little tendency to the north, to make it the ancient line of intercourse between Gertha and Alia, and from thence through Petra \*\*\* to Egypt, Tyre, and the coasts of the Mediterranean.

# XXVIII. ANTIQUITY OF ORIENTAL COMMERCE.

So far as a private opinion is of weight, I am fully perfuaded that this line of communication with the East is the oldest in the world; older than Moses or Abraham. I believe that the Idumeans, who were carrying spices into Egypt when they found Joseph in their

feventy days in going to Elana, which is a lefs 21 Petra was only ten miles from Aila. Mance. It feems highly probable that the Bochart Phaleg. 686.

<sup>&</sup>quot;There is another route fappoied to be Gerrhéaus are meant in this place; for, as intimated in Strabo, from Gerrha to Hadra-they were general carriers, it is probable they munt; but the reading, inflead of Tajkan, is went to Hadramaut as well as in other di-Tajkan, which, Salmafus fays, ought to be rections.

Takata, from Gaza to Hadramaut forty days.

If this were fo, it contradicts another paffage et here via coincidit cum extremitate Kufa, of Strabo, where he fays, the Mindaris were prope Maaden Alnocra, p; 121.

way, obtained these spices by this very route. And if it is agreeable to analogy and to history that merchants travelled before they failed, there is no course from India to the Mediterranean where so fmall a space of sea must be traversed as in this direction. Karmania is visible from Arabia at the straits of the Gulph of Persia; and in the infancy of navigation, the shortest passage would be preferred. The interior of Arabia, in all ages, contained Bedouins, whose profession was robbery; but the different tribes of robbers probably received a caphar instead of seizing the whole; as they do to this day of the caravans which pass between Basra and Aleppo. They are likewife not fond of fighting for the whole, when they can obtain a tribute for a part; and necessity would compel the merchants of those ages, as well as our own, to go in large bodies, and provided with arms for their defence. The manners of the Arabs have never changed; and it is reasonable to conclude, that merchants who have to treat with Arabs have changed as little in their precautions. Pliny 245 has preferved the memorial of these usages in the fouthern part of the peninfula; and there is every reason to conclude that they existed in all ages, before his time, as they do to the prefent hour.

It was to obviate these exactions that plans were formed to open a communication by sea. The Tyrians, as the principal merchants on the Mediterranean, and as the intermediate agents of Oriental

canis penditur.—I appeal to every English traveller, who has ever passed between Basira and Aleppo, if this is not an exact picture of the extortions practifed upon a carevan; and yet caravans still pass, and fall make a profit on their merchandize—the consumer pays for all.

<sup>&</sup>lt;sup>55</sup> Ibi decimas Deo, ... regi vedigal, ... facerdotibus portiones, ferblique regum ... fed prater bos, et cathodes, fatellitefque & holfiarii [Offiarii] populantur. Jam quocuaque iter eft, aliubi pro aque, aliubi pro pabulo, aut pro manfionibus, variifque portoriis pradaut. ... iterumque imperii nofiri publi-

commence, either first conceived the idea, or derived it possibly from the Egyptians, whom we must suppose to have had an intercourse with India whether history records it or not. The first historical account we have is, the trade of Ophir. The alliance between Hiram and Solomon was indispensable; for Solomon was master of Iduméa, and the Tyrians could establish themselves at Ezion Geber only by his permission and assistance. Solomon furnished the opportunity, and Hiram the ships; the profit accrued to the partnership; and if this voyage were made to Ophir in Arabia, where it is universally confessed there was an Ophir, even by those who search for Ophir in Africa and India; such a voyage would at least obviate all the exactions attendant upon a communication by land, and place Hiram and Solomon in the same situation as the Ptolemies stood, before a direct communication was opened between Berenikè and the coast of Malabar.

This rapid fketch of Oriental Commerce in all ages, as far as it can be traced upon historical evidence, is no digression, but an effential part of the work I have undertaken: my object has been, not merely to elucidate the Peripsus by a commentary, but to trace the progress of discovery to its fource; a subject curious and interesting at least, if neither useful or lucrative. But to know what has past in remote ages is the purpose of all history; and to collect, from a variety of sources, such intelligence as may enable us to distinguish truth from fallehood, if it has not the dignity of history, has at least a claim to approbation from those who know how to appreciate the labour of research, and the fidelity of investigation. Much that has been said may be controverted in particulars, and yet be correct upon the whole. I am not conscious of any preconceived

system in my own mind, but have raised a superstructure upon the foundation of historical facts: these I have not warped, in order to accommodate them to an individual opinion; but have followed them wherever they led. I claim little merit but in concentrating these to a point; and if the same evidence should not produce the same conviction on others, I should as readily give way to those who are possessed for superior information, as I should maintain my ground against those who are pretenders to the science.

### XXIX. CONCLUSION.

IT is now necessary to bring this Book to a conclusion, in which the course of ancient navigation has been traced from the Gulph of Aila to the mouth of the Euphrates 146, embracing the whole feacoast of Arabia on its three fides. The author does not appear, from the internal evidence of his work, to have personally explored the eaftern coast of the Red Sea, or the western shore of the Gulph of Perfia: he fecms to have come down the Red Sea from Myos Hormus to Okêlis; or perhaps from Leukè Komè, but to have touched little upon the coast till he came to the Burnt Island. On the fouthern coast of the peninsula we can trace him, at almost every step, to Fartaque, and to Ras-el-had; but from thence he feems, without entering the Gulph of Persia, to have firetched overwith the monfoon, either to Karmania, or direct to Scindi, or to the Gulph of Cambay. At those points we find him again entering into those minute particulars, which bespeak the descriptions of an eye-witness; while, of the parts previous to these, he speaks in so

transient a manner, as to create a belief that he writes from the report of others; but on this question it is not necessary to decide. the reader must determine for himself. On the two coasts of Arabia which he has touched but flightly, I have endeavoured to fill up the outline which he has sketched; and on the third side, where he has entered into detail, I have endeavoured to follow him, step by ftep, as minutely as I have been able. But if the interior of Arabia is a defideratum in Geography, the coast likewise is far from being accurately defined: no ships from Europe now visit it for the purpose of trade; and those which come from India to Mokha or Iidda. feldom touch upon the coast towards the ocean, unless to obtain provisions when in distress. What information may be obtained from the English cruizers which have lately been in the Red Sea. and were at one time preparing to fortify Perim in the Straits, is expected with a great degree of curiofity. Commodore Blanket, who was upon this fervice, was an officer of much science and great experience: he may have ordered furveys upon this coast, or some examination of it, which may clear up feveral of the difficulties which remain. In the mean time, I have made use of such lights as are afforded by the papers and journals of the officers of the East India Company, and which are collected in the work called the Oriental Navigator. Those who know the abilities and science of those excellent officers, will think their observations might have been fufficient for fuch an examination as I had instituted; but ancient navigators kept much nearer the coast, and noticed objects which are of small importance in the present state of the science. A minute particular often forms a characteristic of a port, a bay, or a shore, which we cannot hope to find in the common observations of

modern officers, nor eléwhere, unless when an actual furvey has taken place. In the voyage of Nearchus, as my own knowledge increased, I conftantly found a greater correspondence in his Journal with the actual state of the coast: I have not been \* quite so fortunate in the present instance; nor do I think the author of the Periplus to be compared with the Macedonian commander, but fill he is, as Vossius fays, the only ancient author who has given a rational account of the countries or coasts he has described; and in this, if

### ADDITIONS.

· Sir Home Popham's Chart of the Red Sea, which I obtained after the printing of this sheet, induces me to recall this affertion in fome degree; for in that chart a plan of the harbour, and a view of the town of Aden, is given, which identifies it to demonstration with the place called Arabia Felix in the Periplus. " It lies," fays the author, " twelve " hundred stadia from the straits: it has very " convenient anchorage, and affords excellent " water; and it is fituated just at the entrance " of the bay, fo as to remain diffinct, and in " fome measure separated from the country " along the fhore." [Ty the xweet one pheyms.] Now, a reference to Sir H. Popham's Chart prefents us with a peninfula, joined to the main by a very narrow neck, and adjoining to a river, which may afford the supply of water alluded to; and if Arabia Felix was placed on the western, instead of the eastern point of the peninfula, where Aden now flands, it would lie at the very entrance of the bay, as is specified: the difficulty, likewife, of approach to it from the adjoining coast, is sufficiently enfured by the narrowness of the neck. The diffance from the firaits is also accurate, with-

in five miles.

#### CORRECTIONS

P. 275, note 115. Negra is not Nera, but Nigeras Ser p. 277, note 118. And, ascording to the Roman Martyrology. St. Archias was put to death at that pine by Dunsan, a Jew, and king of the Homerites, this crudry is noticed in the Koran, where he is called the Lord of the Fiery Pits. Elefbans, the king of a Dyrilmia, reverged the death of Archia, conquered the Homerites, and put Dunsan to death.

P. 293. The Straits of Bab-el-Mandeb are faid to be fix miles wide; but in Sir H. Popham's Chart they are only two miles.

P. 290. In the Table for the Coaft of Arabia, I fee with concern a confiderable difference in the latitudes there given, compared with those of Sir H. Popham's Chart. I had followed the best authority I knew of; but they must now be considered as relative, and not real determinations.

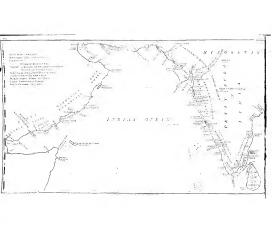
P. 311.

we are able to purfue his fleps and elucidate his narrative, it is the performance of a fervice as gratifying to the curiofity of the Learned, as acceptable to the science of Geography.

P. 311. Koródamon is supposed to be Rasel-had, as it is the eafternmost point of Arabia in Ptolemy; and its form would appear Greek. if we could find in that language Kaupor, or Kapor, or Kopor, equivalent to the Latin Corus or Caurus; for then it might be the point that terminates, or fubdues the westerly monfoon, as Gardefan feparates the two monfoons on the coast of Africa; but Kopos is not the name of a wind in Greek; neither am I informed whether Ras-el-had feparates the monfoons.

### CORRECTIONS.

P. 311. lin. 20. The Bay Sachalites, mentioned here, looks as if the author of the Periplûs had two bays of the same name, prior and ulterior, as Al Edriffi has; but there is no collateral proof of this.



## PERIPLUS

OF THE

# ERYTHREAN SEA.

## INDIA.

#### BOOK IV.

- I. Introduziion.—II. Courfe from Oman in Arabia up the Gulph of Perfia, or to Kormania.—III. Omano in Karmania.—IV. Courfe to the Indus.—V. Scindi, Minnégara, Barbárikè.—VI. Cutch, Guserat, Barngesa.—VII. Kingdom of Bačtria, Túgara, Plithana, Ozénè, Dekan.—VIII. Arlabè or Concan, the Pirate Coaff, Akabaroos, Oopara or Shpara, Kalliena or Bombay, Semulla, Mandágora, Palaipiatmai, Meliseigara, Tóparon, Turanno-boar, Sefekrétenai, Aigidii, Kainéitai, Leukè.—IX. Limúrikè or Canara, Naoora, Tundis, Nelkunda, Ela-Bákarè.—X. Kingdom of Pandion, XI. Hippalus, and the Monfoon.—XII. Balita, Comarei, Kolkbi, Pearl Fifbery.—XIII. Ceylon.
- I. THE productions of India, and the Eaftern World, are not fought after with greater avidity at the prefent hour, than they were by the inhabitants of Europe in the remoteft ages, and all the nations which encircled the Mediterranean. Luxury this was called by the philosophers and patriots both of Greece and

Rome. But if every thing that is foreign is luxurious, there could be no commerce in the world; and if every thing which is not flridly necessary for the support of life be superfluous, thirst might be fatisfied without wine, and food digested without the addition of a relish. In this view, the most ordinary accompaniments of the table should be discarded; and falt and pepper should be enumerated among the gratifications' of a fenfual appetite. But if both are stimulants, still they are no less falutary than grateful; and no reason can be given why salt should be considered as sacred at the table of the Greeks and Romans, while pepper was condemned as the indulgence of a voluptuary; unless that the one was a domestic produce, and the other an exotic. But barbarians were not to be enriched at the expence of Europe, and the Roman world was not to be impoverished for the attainment of Oriental luxuries ;---certainly not, if the fword could retain as eafily as it acquires; but the wealth acquired by rapine must of necessity revert again into the channels of commerce; and commerce, whether it tends to the East or to the West, will impoverish every nation which has no native industry to replace its demands. Rationally speaking, all commerce confifts in the exchange of superfluities; and luxuries are as eafily introduced by dealing with nations nearer home, as with those at a diffance. There is as little reason for declaiming against the Alexandrians who purchased pepper in India with the gold of Egypt, as against the Athenians, who exchanged the filver of Laureum for the falt of Sicily or Crete.

Of pepper Pliny fays, Ufum ejus adco ditate efunie non fuit fatis . . . et taunen poaplacufife miram eft . . . . fola placare amaridere emitur ut aurum vel argentum. Lib. xii. utdine et hanc in Indoa peti; quis illa primus. c. 14. Hard. \*\*Experiti cibis veluit, aut cui in appetenda avi-

Pliny complains that the Roman world was exhaufted by a drain of four hundred thousand pounds' a-year, required for the purchase of luxuries, equally expensive as superfluous: what would he have faid of the expenditure of our fingle island, confisting of two millions, for the purchase of tea only in China, without comprehending any other of our investments in the East? And yet this, and all the other luxuries we import, do not impoverish us; because we export on the one hand as we receive on the other; and, fo far as we are the principal carriers between the Eastern and the Western world. we fland in the fame fituation as those ancient nations held, which were the medium between India and the Roman empire, but with an hundred times more trade, more industry and capital.

As Providence has varied the temperature of different climates, for has it given to man a predilection for fuch things as are not the produce of his native foil. The wildest tribes of America admit traders into their country, and allow them to pass through it with fecurity; the Scythians\* likewife, according to the earlieft testimony of hillory, fuffered the merchants of the Euxine to penetrate farther on the east and north, than we can trace their progress by the light of modern information.

In civilized countries, this appetite increases in proportion to our

yi. 23. quæ apud nos centuplicato veneunt, 40,364,500/,; and again, lib. xii. 18. the ba- of Herodotus, as a proof of the courage, inlance against Rome for the produce of India, dustry, and abilities, of the Greek merchants, Seves, and Arabia, millies centena millia feftertium, 800,000/- tanto nobis deliciæ et fœminæ conflant. The prime coft of cargoes in the Euxine, the Palus Meôtis, the Don, and India and China is now 3,000,000 /. Reanell's the Wolga, illustrated by the commentary of Mem. Introd. p. 36.

H. S. quingenties, near 403,645 l. lib. est, et alienarum aviditas. Plin. xii. 19. . See the Introduction to the Third Book as well as of the extent of ancient difference towards the north, relative to the Danube, Rennell, and displayed with much learning

<sup>3</sup> Tanta mortalibus fuarum rerum fatictas and accuracy of investigation.

knowledge, and the opportunity of procuring the variety which we covet. The indulgences of the palate are among the first slimulants of this emotion; and second to these is all that can delight the eve. or the mind, by novelty, beauty, variety, intrinsic or imaginary value. Excess of indulgence, avidity of possessing, profusion in acquiring, and wantonness in using, this variety of foreign articles. are both vicious and luxurious; but where to fix the limit between the use and the abuse, is a question more difficult to determine than we are aware of. Pliny condemns, above measure, the vanity of purchasing pearls and precious stones for the ornament of the Roman women; while he extols the works of art in feulpture, painting, and engraving, with all the enthuliasm of an admirer. But if every thing is luxurious that is not necessary to our existence, the ornamenting of a house is certainly not more referul or more rational than the decoration of a woman. And if the works of art are a specimen of human abilities, pearls, diamonds, and precious metals, are the gift of the Creator: the things themselves are indifferent; the temperate' use of them embellishes life, and it is only the abuse of them which becomes avarice, prodigality, or folly.

The activity produced by the interchange of fuperfluities, is the glory of commerce, and the happines of man; but if its merits were to be fixed by the standard of utility alone, very narrow would be the limits within which the defence of it, by its warmest advocates, must be consined. Use we can discover none in the burning of tin foil before an idol in China; and yet this practice of a nation at one extremity of the world gives bread to thousands at the other.

<sup>5</sup> The poet underflood this better than the color eft, nifi temperate iplendeat ufu. philosopher, when he iaid, Nullus argento

fupports the mariner during a voyage of eleven thousand miles, and procures for Britain, by means of a native metal, what she must otherwise have purchased by an imported one.

Moral and philofophical reasoning, however, upon this quantion, has had little weight in determining the general practice and habits of mankind. The prevailing tafte implanted in our nature has made the pepper of Malabar, and the cinnamon of Ceylon, articles of request, from the time of Moses to the present hour; the siner spices of the Moluccas grew equally into favour, in proportion as they became known; and the more modern demand for the tea of China, and the sugar of the East or West Indies, will never cease, but with the impossibility of procuring either of those articles, by the destruction of all intercourse between the several nations of the world.

It has been shewn in the preceding pages, how the precious commodities of the East were procured, from the earliest periods that history can reach; and no revolutions of empire, either in the ancient or modern world, have ever been able to stop all the means of communication at once: the channels obstructed in one direction, have been opened in another. Tyranny, avarice, and extortion, have defeated their own ends: the monopoly of one country, as it grew intolerable, was transferred to others that were less opprefive; stuctuating generally between the Red Sea, and the Gulph of Persa; and driven sometimes to the North, by the exactions common to both. Such was the sate also of the last monopoly between Egypt and Venice, which, by its enormity, drove the Portuguese to the discovery of the communication by sea; and this channel once opened, can never be closed; the whole world are partakers in the

benefit; and Britain has the pre-eminence, only because she has the greatest industry, the largest capital, and the superiority of naval power.

It is a political confideration, awful to contemplate, and difficult to difcufs, but fill neceffary to keep conflantly in view, when we reflect how deeply all the interefts of our country are concerned in the continuance of the pre-eminence we at prefent enjoy. Our polleffions in India are almost become a part of our existence as a nation: to abandon them is impossible; to maintain them—a perpetual struggle with the native powers, and the powers of Europe to support them. It requires all the vigilance of government, and all the vigour of the controuling power, to take care that the natives should not be discontented under our empire; and that the nations of Europe should not be outraged by our approach to monopoly. These confiderations, however, are totally diffinit from the commerce itself, and totally foreign to the object of the present work: I touch them only as they arise, and return with pleasure to the humbler office of a commentator on the Periplus.

## II. COURSE FROM OMAN, IN ARABIA, UP THE GULPH OF PERSIA, OR, TO KARMANIA.

We have now our choice of two couries; one up the Gulph of Perfia to Bahrein and Oboleh, and the other across the open sea from Atabia to Karmania; where we arrive, after a passage of six days, at the port of Omana. This port manifestly takes its name from the province of Oman in Arabia, and was doubtles a colony of Arabs, established on the coast opposite to their own, for the purvose. purpose of approaching nearer to Scindi and India, or as an intermediate port on their voyage outward, and homeward bound. Whether the merchant, whose journal we are examining, ever went up the Gulph, or touched at the port of O'mana, is highly problematical. If he was there, he has lest us but slender particulars of the place; but there are some circumstances which induce a perfuation, that he passed from Arabia, either to the Indus or Barugaza, at a single stretch; for, in the sirst place, he has fixed O'mana in Persis, which must of necessity be either in Karmania or Gadrosia; and, added to this, his account of Oraia, in the latter province, is too obscure to prove any intimate knowledge of the country.

#### III. OMANA IN GADROSIA.

O'MANA we recover a trace of in the Kombaña\*, or Nommana, of Ptolemy; in the province of Gadrofia\*, and in the bay he calls Paragon, to the eaftward of Karpella\*, or Cape Bombareek. I have proved, in the Voyage of Nearchus, and in the former part of this work, that the Arabs had visited this coast previous to all the navigation of the Greeks; but this O'mana is not mentioned by Nearchus, and was therefore a colony established between his time and the date of the Periplus. Its immediate representative cannot be now ascertained; but its relative fituation may be affigued from

<sup>6</sup> Kombana, in the Greek copies; Nom- only at Dagasira.

mans, in the Latin.

Pilony makes it a city of Karmania: Oppidum Orianse good prisers celebrem portum tan, fach as Bombareck in. The Latin text. Carmania fecere. Lib. vi. 28. Ptolemy does its Karpelis.

Karpelis its fame; tul Narchus commerce Karmania

Ptolemy, between the River 'Iskim and Muckfa; fo that it must be in Gadrofia, and not many leagues east from Cape Jask.

There is a regular intercourse between Barugaza and this port. which extends also to Oboleh, at the head of the Persian Gulph, The imports confift of

. Χαλκου. Brass. Εύλων Σαγαλίνων Sandal Wood.

Δοκών, Wood fquared: perhaps Δοκών Σανδαλίνων.

Κεράτων. Horn.

Φαλάγγων" σησαμίνων. Ebony in round flicks. Φαλάγγων Έζενίνων,

Except ebony and fandal wood, there is nothing appropriate in this cargo. -

But it is added, that a particular foecies of veffels called Madarátè were built here for the Arabians, the planking of which was fewed together without nails, like those already described on the coast of Africa, Veffels of this kind, called Trankies, and Dows, are ftill in use; and they were formerly built in Africa or Gadrosia, we may conclude, because Arabia furnishes few materials for the construction of thips.

The only import from Kane was Frankincense: while both " from Oboleh and O'mana great quantities of Pearl were exported. but of an inferior fort, to Arabia and Barugaza; and belides this.

<sup>.</sup> That is, the Sams and Dagasira.

it undetermined. Enrugion golas are, however, " Empailes, cafily corrupted from Emple. mentioned by Colmas.

<sup>&</sup>quot; And inarious via lumopius, from either parts " Evoquises is evidently a corrupt reading, which I apply to Oboleh and Omana, because Wood of fome fort is meant, but lesamum is a they were before joined by authora vaora byherb. Salmafius tried to explain it, but left migue.

Πορφύρα, - - - Purple.

'Ιματισμός έντόπιος, - - Cloth of native manufacture.

Olvog, - - - Wine.

Φοϊνίξ πολύς, - - Dates, in large quantity.

Σώματα, - - - Slaves.

After leaving the diffrict of O'mana, the country" which fucceeds belongs to another government; and there is a bay which is called the Bay of the Terabdi, formed by the coaft trending inwards, in . the middle of their territory.

# IV. COURSE TO THE INDUS.

This Bay of the Terabdi answers to the Paragon of Ptolemy, although there is in reality no bay on the coast. No extent is given to that of the Periplüs; but the Paragon of Ptolemy extends from Karpella to Alambateit, or Guadel. Doubtles this is an error arting out of the form of the coast upon approaching the Gulph of Persia; and if we suppose the ancient course of the passage from Arabia to Karmania to have been made across, without approaching the Straits, the apprehension of such a bay is natural. This is the passage indicated by the Periplüs, six days in extent; and may perhaps have misled the author, as well as others, who followed the same course.

In or near this bay, we are informed that there is a river which admits vessels, and a small port at the mouth of it called Oraia.

<sup>&</sup>quot;Merk of the Ormanical Legisla described in the flood; and is, I believe, the nominative to flow thickness (Legisla described inflored in the contraction of the text, or formelling has easily underflood.

"The Contraction." Note is either omitted or under-

The capital of the diffrict is inland, at the diffance of feven days journey, where the king refides. The country produces plenty of corn, wine, rice, and dates; but on the coast nothing except hdellium 14.

These circumstances happen to coincide with an account given to Lieut, Porter, when he was at Chewabad ", on this coast; for a coast without produce he experienced, and the natives told him of a city feven days inland, large and walled : if therefore we knew where to fix the limits of our author's bay of Terabdi, we should have something to direct us to a polition. The river feems like the Tanka Banca, or White River, of the charts, while Oraia bears a refemblance to the Oritze of Nearchus: but to these if is hardly related, as the journal certainly intimates a great extent of the coast between Oraia and the Indus: while the Oritæ of Nearchus are within fifty leagues of that river. We find no Oraia in Ptolemy; and if we are still in Gadrofia, there is no place feven days inland which would answer to the Oraia of our author, but the Phoregh, or Poora, of Arrian. But on the whole of this, as we have fo few data to guide us, it is fafer to suspend our judgment than to decide.

On the coast which follows, and which may be supposed to be the tract between Guadel and the Indus, the description accords much better with the reality "; for we are told, that" there is a

τό βάθος του Κόλπου in της διατολώς, ψετοκιμέσης.

διδίχεται παραθαλάσσια μέρη της Σκυθίας, πας άυτὸν resume res Socias. This pullage, ill confiructed

" This description answers much better

" Merk Il rating re gainer, who are similar bon faid of a bay, the head of which is to the east,

<sup>&</sup>quot; A gum. See Plin. xii. o. 5 Churbar Lieut, Porter's Memoir, p. 8. in Mr. Dalrymple's Collection.

as it is, I truit I have rendered faithfully : than that of Ptolemy, who has one line of virguepione, I imagine, exprelles encircling to a coast from Alambateir, or Guadel, to the head vall extent; applied to an arm. it means, outof the Bay of Kutch. flanking the whole : and it was approved may be

vast sweep of the shore round the indenture of the bays, which have an inclination to the East; and, after passing these, a low tract of country towards the sea, called Scythia, lies on the north of the courfe, and which extends to the river Sinthus.

These bays are evidently meant for those that are formed by the Capes Possem, Arraba, and Monze; and the bay immediately preceding Monze has a large fweep, to which, with the affiftance of imagination, we may give a direction to the East, as its inmost curve is fomewhat to the east of Cape Monze. It is added, that during the course from Monze to the Indus, the land is low, and lies to the north of the vessel that is passing to the East. This track is now called Scindi; and the Scythia of the Periplûs, wherever it occurs, is the actual Scindi " of the Oriental and modern geographers. Why the author writes Scythia, and why Ptolemy finds an Indo-Scythia in this country, has already been conjectured in the Voyage of Nearchus: where it was observed, on the authority of the Ayeen Acbari, that the country is divided between the Hendians and Sethians. I am myself persuaded that this distinction is

struck it receiving in the asserbant, the fenfe will try on the coast west of the Mehran; and from not be very different, but the range of the coast more difficult to comprehend.

ental geographers, is Scind and Hind; that is, Scindi and Hindoftan. Scindi comprehends the country on both fides the Indus; and the Indus itself is written Scind or Sind, with an S. which is preferved in the Sinthus of the Periplus-in the Sindi and Sindocuada of Ptolemy. The Indus acquires another name while it continues a fingle stream; for between Moultan and Tatta, it is called Mehran

and the apening to the west. But if we read Mekran, and hence Kutch Mekran, the coun-Kutch Renuell derives Gadrofia. There is likes ife another Oriental dillingtion, between " The diffinction in Al f. driffi and the Ori- Hind and Sin; in which Hind means Hindoffan, and Sin, or Chin, Cochin China: Chin is also written Cheen; and Ma Cheen, Great Cheen, means the country we now call China .- I ought not to difmifs this note without obferving, that the Mehran of Ebn Hankel is the Chin-ab, or Akéfines: he is, in this, at variance with other Oriental writers; but his authority flands high.

original; and that it is the cause of the error which has been adopted by Ptolemy, and other ancient geographers: but if this opinion is rejected, I should then say, that Scythia is a corruption of Scynthia, and that Scynthia is as precisely Scindi, as Sinthus is the Indus.

## V. SCINDI, MINNÁGARA, BARBÁRIKÉ.

I SHALL collect the feveral particulars relating to Scindi, which lie dispersed in other parts of the Journal, to this point; for it is natural to conclude, that from the time of Alexander, and the publication of the Voyage of Nearchus, the Greeks had always confidered Pátala as the Port to which they were to direct their views, in order to obtain the precious commodities of the East. I have every where allowed that, while the mass of the trade was confined between Egypt and Sabea, fingle flips, or individual merchants, might have reached Iudia from the ports of the Red Sea. It is . natural also to suppose, that the subjects of the Seleucidæ were directed by the fame inducements, while the Syrian Monarchy was in its vigour, -while it possessed Susiana, Persis, Karmania, and the whole eaftern fide of the Gulph of Perfia, and before it was weakened by the revolt of Parthia, Bactria, and the country at the fources of the Indus. The celebrated embaffies likewife of the Syrian monarchs to Sandrocottus and Alitróchades, the fovereigns of Hindoftan, probably embraced objects of commerce as well as empire; for those who found their way to the Ganges, could not be unacquainted with the profits to be derived from the commerce of the Indus.

The first " ship that coasted round the peninsula of Arabia from the Red Sea, or that retraced the fleps of Nearchus back again from the Gulph of Perlia, would naturally direct its course to Pátala and the Indus. Here it was known from history that the productions of the East were to be obtained; and here the trade, which passed in the earliest ages between all the countries at the sources of the Indus and the coast of Malabar, must always have fixed its centre. As the Greeks and Romans increased their knowledge, and finally became acquainted with the monfoon, they made their paffage to India direct; but the voyage to the Indus was not yet abandoned in the age of the Periplûs, nor probably for feveral ages later. Pátala our merchant does not mention, but there were evidently two marts of importance still on this river: one, towards its issue, called Barbárike; and another, somewhere in or near the Island of Behker, higher up, named Minnágara, which corresponded with. the Sogdi, or Musikanus, of the Macedonians, and which has been replaced by the Behker (Manfoura) or the Loheri of modern Scindi, or any one of the capitals occupied by different invaders in the various revolutions of this country.

Minnagar o, or Minnagara, perhaps the Binagara of Ptolemy, is deferibed as the capital of the country, and the relidence of a lovereign, whose power extended in that age as far as Barugaza, or

" Minnagar is the fortrefa or city of Min, like Bilnagar, Tattanagar, &c.

<sup>&</sup>quot;\* Large fhips from the Indus, Patala, Perfin, and Karmania, cinne to Arthia as early as the time of Agathanchides, and most probably many ages prior, before there was any hiftery to report the failt. I (impose these wish any hiftery to have been chiefly navigated by Arabinas, beeauly we can prove the feathemant of that people on the coall of India from the timerthat hiftery commence. See Periolis furnar, 16.

<sup>&</sup>quot;Maghmoed the Ghaznevide, coming down the Indus, made his fait introdus into Guzzert; and there from to be a general connection bettigen this province and Scind; for the language is the fame from Saint to Tatte, as we-learn from Paolino, p. 262.

Guzerat. The government was in the hands of a tribe of Parthians ", divided into two parties; each party", as it prevailed. chofe a king out of its own body, and drove out the king of the opposite faction. This sovereign, however, must have been of confequence, or the trade of his country very lucrative to the merchant, as appears by the prefents necessary to ensure his protection. These were.

Plate of very great value. Βαρύτιμα αργυσώματα. Mufical Instruments.

Μεσικά \*\*. . Παρθένοι ευειδείς πρός παλλαμίαν, Handsome Girls for the Haram. The best Wine. OType die Oppie.

- Plain Cloth, of high price. Ίματισμός απλάς πολυτελές,

- The finest Perfumes, or perfumed Μύρον έξοχον, Unguents.

. These articles are all expensive, and the best of their kind. The profits upon the trade must therefore have been great; but if Pliny's account be true, that every pound laid out in India produced an

out Parthians.

13 If the governing power were Parthians, conjecture, of imagination, suppose them to have been correct, considering the country.

" Bantauras di ved Hágdus, overgue allabas Aghwans, whose inroads into India have been ladwideran. I should have been glad to have frequent in all ages. That the government interpreted this passage as relating to the Par- was not Hindoo is manifest; and may tribe thian empire, which was then in its vigour, from the West might be confounded with Parand might have extended itself eastward to the thians. If we suppose them to be Aghwans, Indus : and, by applying &DARAS; to Hindoos this is a primary conquell of that nation, exand Parthians, the expulsion of each, alter- tending from the Ludus to Guzerat, very sately, from Minnagar, would have refembled fimilar to the invalious of Mahmood the the fate of Candahar in these latter ages. But Ghaznavide, and the present Abdollees or it would then have been written one rus Hagier, Durrannees. The Belootches, who have inthe Parthians, the Parthian empire ; and Harden felled this country from the time of Alexander author leauthres must be, Parthians driving to the present hour, are a tribe of Aghwans: but the whole of this is fuggefted as a mere.

the dillance is very great for them to arrive . " Masson in Greece would have a different at the Indus; may we not, by the affiftance ferile; but I follow Hudfon; I think he is

hundred

hundred at Rome, greater exactions than these might easily be supported.

The precise fituation of Minnagara it is not easy to determine : but if it be the Minhavareh of Al Biruni ", inferted in De la Rochette's Map, I conclude it is also the Manhabere of Al Edriffi. Al Biruni was a native of the country, and confequently his authority is great; and it is to be prefumed that De la Rochette follows him as a guide, in placing Minhavareh on the Indus, between the Island of the Behker and the Delta: Al Edriffi places his Manhabere at two stations, or fixty miles, from Dabil; and Dabil, he adds, is three flations, or ninety miles, from the mouth of the Indus: that is, it is at the head of the Delta, and Manhabere fixty miles higher. But he adds, that it is towards the west, which causes fome confusion, unless he means by this that it is in the Island of Behker, which he extends likewife to the west. But if Al Biruni and Al Edrissi can be reconciled, a Minhavareh, fixty miles above the Delta, agrees perfectly with the Minnagara of the Periplus, and fufficiently with the Binnágara of Ptolemy; but not with bis Minnágara, for that is in Ouzerat, and he has another in the Bay of Bengal. D'Anville " fuppoles Minnágara to be the fame as Manfoura, and Dabil to be at the mouth of the Indus, inflead of being at the head of the Delta, where Al Edriffi places it; but we approach fo near a conclusion by means of the two Oriental geographers, that I think it may be depended on. The journal fays, that the ships lay at Barbarike, which was a port on the middle branch of the Indus, near the fea, and facing a fmall ifland; that Minnagar was beyond it inland; and that the whole cargo was carried up to that

<sup>3</sup> So called from the place of his refidence, Abulfeda in Melch. Thevenot, vol. i. p. 9.

Al Birun, between Dabul and Manfura.— Manig de l'Inde, p. 34.

metropolis by the river. The representative to supply the place of fuch a capital would be the modern Loheri, at the fouthern termination of the Isle of Behker, which, a century ago, was a place of confiderable commerce, and gave name to the two principal branches of the Indus, east and west, as they divide to embrace the Delta: the eaftern is fivled Bundar-Loheri, and the western, Loheri-Bundar "7.

One circumftance most remarkable is, that the port of Barbarike is placed on the middle channel of the feven; and the other fix are faid to be too shallow, or too marshy, to be navigable. This is contrary to the report of Nearchus, and to our modern accounts: for Alexander navigated the two extreme 15 channels, east and west : and they were both navigable within these fifty years. Whether the government of Minnagar cleared and opened the centre one, can only be conjectured; thips did not go up it, and what water was required for the boats that carried up their lading, depends on the nature of the veffels which were employed. The Ritchel River, and that which issues at Scindi Bar, may either of them have been navigable in former times, or in different ages, according to the interest or fituation of the different governments which may have prevailed. Rennell " ftill speaks of the Ritchel River as the largest; and without calculating whether it is precifely the central iffue of the feven, here Barbarike might be placed, if other circumstances should be found

called Nulla Sunkra in the treaty of Nadir Shah. See Nearchus, p. 529. " The western channel, which conducted

to Lori-Bundar and Tatta, was the only one frequented by the English. This is now either impracticable, or rendered unfafe for ftrangers

<sup>27</sup> Bundar Lori, the Eastern Channel, is by the government; for Tippoo Sultan's embaffadors to the Abdollee Shah did not go up the Indus, but landed at Caranchy or Crotchey. See his Letters and Orders, in the Afiatick Ann. Register.

<sup>&</sup>quot; Memoir, last ed. p. 180.

to correspond. It is some proof of the fact, that Ptolemy has placed his Barbari in the Delta, convenient for the third and fourth channel: but his Barbari does not answer to the Barbárikè of the Periplûs; it is above his Patala, while the Barbárikè of the Periplûs is at the mouth of the channel, and close to the sea. It ought likewife to be observed, that this term is not the native name of a port, but a Greek epithet 10, implying, the Barbaric Port, the Barbaric Country, derived, if the conjecture may be allowed, from the merchants finding here those articles which they had formerly purchased at Mosvllon, on the original Berber coast of Africa, where there is a Barbora to this day, and from whence many of the Oriental articles" in the market of Alexandria were called Barbarine and Barbarick.

The

30 Έμπορίου Βαρθαρικόν, Χώρα Βαρθαρικόλ. It is a most extraordinary circumstance, which I am informed of by Mr. A. Hamilton, that Barbara has precifely the fame meaning in Sanskreet, as it has in Greek, Latin, and English ; all manifestly deducible from Egypt. A term of reproach fynonimous with favage.

31 I fubmit the following conjecture to the natural historians, without any affertion of its truth, or fulficient means of afcertaining it :-Rhubarb is written Rha Barbarum and Rha Ponticum: and as the belt rhubarb always came out of Eaftern Tartary, the first course by which it would reach Greece would be by the Wolga, the Caspian, and the Euxine. Now Rha is the native name of the Wolga: and Rha Ponticum would be the drug that came by the Rha, and Pontus, into Greece. But another conveyance of this drug would be out of Tartary to Cabul, and from Cabul down the Indus to Scindi, and to this port of Barbari, or Barbarike. If then the name of Palus Mozotis. The rhobarb brought into

the drug Rha was already received in Europe, would not the Rha procured in Scindi be ealled the Rha Barbarum ?-I have not found this drug in Pliny, but fufpect it to be his Rhacoma, xxvii. 105. very dubioufly deferibed; and I know that Rha Ponticum, and Rha Barbarum, convey now ideas not confonant to this explication; but still it may be the true one, originally : the ground for the adoption of this opinion is derived from Salmafius. Bayer observes, that Rha fignifies a river in the language of the natives. Hift. Bact. p. 162. from Scaliger, Doct. Temporum. That Rha the plant, derived its name from Rha the river, we have certain information in Ammianus Marcellinus: Huic, Rha vicinus oft amnis in cujus supercibis ojusdem nominis, gignitur radix proficiens ad usus multiplices medelarum. Am. Mar. p. 390; and, because this root was brought out of the Euxine, he confounds the Rha with the Don, and supposes it near the

### The articles imported at Barbarikè arc,

Ίματισμός ἀπλῶς ἱκανὸς, - Clothing, plain, and in confiderable quantity.

'Ιματισμός νόθος ε' πολύς, - Clothing, mixed.

Πολύμετα 22, - - Cloth, larger in the warp than

Χρυσόλιθον, - - - Topazes.

Κοραλλιον 33, - - - Coral.

Στύραξ, - - - Storax. Λίβανος, - - - Frankincense.

Λίδανος, - - - Frankincenie Ταλὰ συεύη, - - - Glas veffels.

Αργυρώματα, - - - Plate.

Χρημα, - - - Specie.

Οίνος ε πολύς, - - - Wine.

## The Exports are,

Kórros, - - - Costus. A spice.

Βδέλλα, - - - Bdellium. A gum.

Λύκιου, - - - Yellow dye. Νάρδος, - - - Spikenard.

Ailor unalanivos, - - - Emeralds, or green fromes.

Σώπφειρος, - - - Sapphires.

Σημικά 14 δερματα, - - Hides from China.

'Oθόνιος - - - Cottons.

Lada in modern times, came by the cases on "At Calient they took gold and filver which puffed between Cabul and Cathgur, alone, or elfe causel, when the Portuguese three months journey from a mar called Yar cance there first. Cada Monto, p. 58. Gry-Chaus, bort ultimately from Chian. See Finch neius.

"This is very dubious, and occurs no "Dis is very dubious, and occurs no

s Vestis Polymitos. Vestis filis versicolori- where else.

bus contexta. But dubious.

Nημα Σηρικόν, - - - Silk Thread.

'Iνδικον μέλαν, - - - Indigo, or Indian ink?

Such are the different articles of export and import; and the author observes, that in order to reach this port in the proper season, the thins thould leave the harbour of Berenike in Epiphi, or July: adding, that the paffage down the Red Sea is difficult at fo early a period. but that a favourable wind (that is, the monfoon) is more eafily obtained after you have passed the straits, and the voyage more expeditious 35. This is in harmony with the account of Pliny, who informs us, that the paffage down the gulph took up thirty days; a long time for a passage short of five hundred miles, and which proves, not only the difficulty of the navigation, but the unskilfulness of the navigators. Upon approaching the mouths of the Indus, the fea is white; and the fign of land before it is feen, is a multitude of fnakes, called Graai, floating on the furface. This circumstance, which feemed fabulous to the ancients, and fome of the moderns, is now known to be a fact that takes place down the whole coaft of Malabar, as well as on the approach to the Indus: it is imputed to the rains of the monfoon washing down these animals 10 out of the rivers. I shall here also take occasion to do justice to Agatharchides, for condemning his report of a whiteness in the fea off the coaft of Arabia. I am not apt to suppose every extraordinary report false, in authors ancient or modern; and I have pleafure in acknowledging the veracity of Agatharchides in this inftance, on the authority of Corfali 37, Thornton, and Terry; Corfali's account.

account, indeed, goes rather to confirm the Periplûs; but the evidence of Thornton and Terry is direct, "that the fea near Socotra" is as white as milk." We are every day leffening the bulk of the marvellous imputed to the ancients; and as our knowledge of the Eaft increases, it is possible that the imputation will be altogether removed.

From the whole of the particulars collected at the Indus, there is every reason to believe that the writer of the Periplûs was here in person: the minute circumflances recorded form a strong contrast with the flight notice of the Guiph of Persa and the Coast of Gadrosia; and the more circumflantial detail respecting Guzerat and Cambay, which we are now approaching, is so very remarkable, that the description could, hardly have occurred, unless it were derived from information on the spot.

## VI. CUTCH, GUZERAT, BARUGAZA.

The first place we are directed to on leaving the Indus, is the Bay of Cutch or Kartích, the Kanthi \*\* of Prolemy, the Eirinon of the Periplús: it is faid to be unexplored \*\*; a circumstance appropriate to it at the present hour; and to have two divisions, the

" is as white as milk." Terry in Purchas, mains of Hindoo inperfittion in this part of vol. iii. p. 1467.

India: a pageds in Kutlen, another at lairat.

Vicino al India trecento miglia, l'acque del mare fi moftran come di latte che mi pare effer caufato d' al fondo, per effervi l' arena bianca. Andrea Corfali. Ramufio, tom. i. p. 178.

See Periplûs, p. 36. and Agatharchides in Hudfon, p. 64.

\*\* Cantha is one of the names of Crifina, as

Cantha is one of the names of Crima, as Hufband or Lord. There are still great re-

mains of Hindoo inperfition in this part of India: a pagoda in Kutien, another at Jaigat, and a third at Sumnaut—all fill confpicuous; and Sumnaut and Jaigat fill vifited in pil-

grimage. Mr. A. Hamilton.

39 'A Sulpros; but an English officer, taken prisoner by the pirates, was carried up it, according to Rennell. The pirates should be those of Goomtee, just to the cast of Jaigat.

greater and the less, both shoal, with violent and continual eddies extending far out from the shore; so that vessels are often aground before they see land, or are hurried away by the eddies and lost. The shore begins to curve as soon as you leave the Indus "; first towards the east, next in a foutherly direction, and, finally, back again to the west; till it reaches the promontory Barákes, which thuts in feven islands with its projection. This cape represents, with fufficient exactness, the Jaigat point of our charts, and its islands within, which are at this day the retreat of a piratical tribe, visited by the English within these few years ".

If a veffel approaches this point, her only chance to escape, is an immediate alteration of her courfe; for if the is once well within it, it is certain destruction. The sea rolls in here, a large and heavy fwell, with great violence, forming eddies and whirlpools in every direction. The foundings likewife vary from deep to shoal, or rocky, without warning; fo that if you attempt to anchor, the cables are cut or rubbed by the foulness of the bottom. But the fign of approaching this bay, is another fpecies of ferpents, floating on the water, larger, and of a black colour; while those that are met with at Barugaza, and lower down, are green, with a golden hue, and of a fmaller fize.

From Barákès, and the Bay of Eirinon, the next in fuccession is the Bay of Barugaza, which terminates [fouth-west] on the boun-

<sup>4</sup>º 'Aπό το όρμο, the last station is Barbarike. The text feems to give the name of Barákes to here a tract called Barfeti, the Barafit of Al Biruni, p. 83.

nicle, p. 3. The diffrict is called Goomtee:

the pirates are faid to have been driven from Kutsch, between the Indus and the head of the coast as well as the cape. D'Anville finds the gulph, and to have fettled on the opposite shore of Guzerat, since called Little Kutsch. They are the Sanganians of our early navi-

<sup>&</sup>quot; In 1799. See Indian Reg. 1800, Chro- gators, the Sangadæ of Nearchus.

dary of Ariakè \*\*, the territory of Mámbarus, who is fovereign also of all India \*1. Inland, on the north, the district of Barugáza, joins to Scindi, and is subject to the Parthians of Minnagar; and the seacht, from Scindi towards Guzerra, is called Suraftrene. It produces abundance of corn, rice, oil of selamum, ghee, and cotton for ordinary manufacture; and the cottons of Minnagar are carried to Barugáza for exportation. The natives are black, and men of large stature, and the herds of cattle in the country are numerous. Surastrene \*\* musit therefore be the Kutsch of our modern charts, the capital of which is Boogebooge; a track wholly inhospitable, and now never visited; so that we have no opportunity of knowing \*\* whether it answers to the account of the Periolius or not.

The passage from Barbarikè to Barugaza is sator made along shore by the Bay of Etinion and Barákes, but strait aeros to the headland of Papíka", which lies opposite to the harbour of Barugáza, and in the neighbourhood of Astra Kampra and Trápera. This

<sup>6</sup> H της της της Αρμονίας χώρας της Μαμόδορο Βουτλίαις όρχος, και της δίνα Ιδικός όσκα. The beginning of Ariakie, marks the diffinctions for Barugaza was fullyoft to Minnágara. Αμωσίς for Αρμόδορος is the undoubted correction of Stuckius. Suraftrene; Mr. Hamilton interprets it Sri-raftra, the Lord of Profperity. Ingrapt, the World.

Jugged M. S. Barge exprellion; but it cannot compeled more than the northern part of the penintian of Itelia, in opposition to Scientian George, in that age, under the Parthams. Such a king as the Bahlars of Al Edniff. [O. 43, would correspond inficiently for Bahlars fightles King of Kings, according to bit interpretation; but Mr. A. Hamilton fays it implies, the Operations of the Mr. A. Hamilton fays it implies, the Operations of the Mr. A.

<sup>&</sup>quot;Suralirinë is not fo abfolutely confined in the text to Kurifah, that it may not extend to the could followers all followers al

to Scindi and Guzerat, in that age, under the "awwin, and it betystiques awris, Zasupia, p. 172.

Parthians. Such a king as the Balshara of "Orme fays, it furnithes a good breed of Al Edriff (p. 62.) would correspond fuffi. horses, which implies passure for other cattle cleasly; for Balshara fignifies King of Kingra, also. Hill: Fragments, notes, p. 107.

<sup>45</sup> D'Anville finds here a Soto Pagera, for Afto Papika; but upon what authority he does not mention. Antiq. del Inde, p. 83.

Mar y' Seay ni GUZERAT GULPHO'CAMBAY PERIPLES N. I for My a drawn from the kept majore, Judicratus & and accompanies and to the Geography of the Designar T.B. Manageria is too new the T. Organ & Smooth are districted bric Organic to the Engana of Perhaps in Oriotha of Commen is more by Sweet freient de the makey mare delever h & Pares

.......

cape forms the western point of the Bay of Barugaza, at the extremity of which lies the Island of Baiones "; and from this point the coast runs northerly till it reaches the head of the gulph; there it receives the river 48 Mais [and then returns again fouth to Barugáza itfelf, and proceeds, in the same direction, to the main coast of the peniafula.] It is added, that the paffage from Scynthia to Baiônès is three thousand stadia, which agrees sufficiently with the actual diffance of about three hundred miles.

Among all these particulars, there is not a single circumstance which does not accord " with the actual nature of the voyage at the present day, from Scindi Bar to Diu Head; for Baionès " is Diu"; and from Diu, the coast runs N.E. to the head of the Gulph of Cambay, where we find the River Mahi, as the representative of Mais. From Mahi the direction of the shore is fouth to Baroache, the Barugaza 12 of the journal on the Nerbudda, which the Periolus calls the Lamnaius, and Ptolemy the Namadus", ftill written Narmada in some of the Hindoo books. The other part of the account, which at first seems to intimate that the bay is thirty miles across.

of Bailines is Diu; and, if I understand it but the central point feems relative. He rightly, this ifland, and the coast towards Jaigat, is the Cheimaerran of Marco Polo: in his time, all the trade here was in the hands

<sup>4 &#</sup>x27;Ba M vol: ipuváres város: pápapos voração d λενόμικο: Μάλι.

<sup>4</sup> On peut dire ainfi, que ce ou on acquiert de notions par le Périple, est fatisfaisant et positif. D'Anville, Antiq. de l'Inde, p. 86. " I conjecture that Din is the Avi Camsu of Al Edriffi, breaufe he reckons one day and a half's fail from Cambay to Avi Caman, and two from Avi Caman to the Indus. They are couries far too long for an Indian thip.

fpeaks magnificently of the trade of Cambay in his time; and extensive it continued, till the greater proximity of Surat to the onea fea attracted the trade to that port.

<sup>&</sup>quot; Din is Dive, the Iffe. Din Head is Papika, the cape immediately well of Diu.

<sup>11</sup> Barugáza fignifies the Water of Wealth, from Bari, water, and Gaza, wealth, riches, treasure, or treasury; the same in Sanskreet as in Perse. Mr. A. Hamilton. 33 Afiatick Refearches. Is it not Nahr-

Bhudda? or Nahr Mahndeo? The Soane, its kindred ftream, is called Soane-Budda,

will perhaps bear a more favourable confiruttion, which I fubmit to the judgment of the reader: ["Upon arriving] at this "gulph, "thofe who are bound to Barugáza [keep clear of the land on "either fide] and pafs up the open channel for thirty miles, leaving "Baionès on the left, till it is fearcely vifible in the horizon, [their course is] then eaft to the very mouth of the river that leads "to Barueáza."

The paffage into this gulph is narrow, and difficult of access when you approach it from the fea, leaft you should be carried away to the right hand or the left. The left fide is the best; for on the right there lies a stripe of shoal, rough and broken, called Herône, near the village of Kammôni"; and this shoal of Herône, notwith-standing the shifting to which sands are liable, is not undiscoverable at the present day, or at least a representative for it, which will sufficiently clucidate the account in the journal. The charts and maps are full of shoals; De la Rochette has one extending from Swally to below Damaa, and others without it; and a particular one off Groapnought Point, which seems to be the Jameier Shoal of Skinner, corresponding with the situation required: all of them are long, narrow stripes, like the Fillet [rawia] of the Periplin, caused

"Exammoni is fufficiently marked here on the fide of the Gulph of Cambay, opposite to Dia, to shew that it cannot be far from the Barugara; and fo Ptolemy places Kamanes in his most distorted map of this doa's; and yet Major Remoulf says, Cambay appears to be the Camanes of Ptolemy. Memoir, last edit. D. 240.

<sup>&</sup>lt;sup>34</sup> [Karw] Term rds Khaws, rd whates is, but may fignify paffing through the fea, for 30 radius spaceties is whises; its Basifyalas diam. miles up the channel.

iprau i l'a levique desponsi normanefore en inferio.

An il canri somonol, le dure il rique si meraja,

Bapprafon. Karà mult he understood either
with rès κόστως or θ'αλογος: 1 prefer the
first, se usual in the journal. Τ'α θλαγος 1

render elser ebannel, as open fas, in comparifon
of a courfe along either finore; «λαφθαν» is,
fearcely appearing, fearcely visible; δλαντρόντα
meet not be taken in the first effects of expelling.

apparently by the rapidity of the tide, which throws up the fand, but will not permit it to accumulate in breadth. On the left, opposite to Kammôni, near the promontory of Asta Kampra, lies the cape called Pápika 56: here it is difficult to anchor, both on account of the current, and because the cables are cut by the foulness of the bottom. But even when the passage into the gulph is secured, the mouth of the Barugáza River is not easy to hit; for the coast is low, and there are no certain marks to be feen: neither, if it is difcovered, is it easy to enter, from the shoals " which are at the mouth. For this reason pilots are appointed by government, with attendants in large boats, called Trappaga and Kotumba; these vessels advance as far as Surastrênè, or Kutsch, and wait there to pilot the trade up to Barugáza. Their first service, at the entrance of the gulph, is to bring round the ship's head, and keep her clear of the shoals : this they do by means of the many hands they have on board, and by taking the veffel in tow from flation to flation, which flations are all known and marked, they move with the beginning of the tide. and anchor as foon as it is spent at certain berths that are called Basons "; and these basons still retain water after the tide is out, all the way to Barugaza. The town itself lies thirty miles up the river: which fact directs us to Baroache, without a possibility of mistake.

The difficulty of navigating this bay affords a fufficient reason why Barugáza should be more flourishing than Cambay, and Surat

<sup>&</sup>lt;sup>56</sup> Pápika, criminal, guily, barbarous. Mr. it would explain many particulars here mentioned.
Fi Ir was very late that I faw Skinner's
\*\* Noppon, literally, kettles: from wishes, ob-

Th. was very late that I law Skinner's "Κυθρίω, literally, kettles; from κυθρα, ο Chart, by favour of Mr. Arrowímith. His folete; χονηνίω, Hafych. Salm. 83.
Μεποίτ Ι have not feen; but I am perfuaded,

preferable to Barugáza or Baroache; and yet Cambay was a great place of trade when Tavernier was in India. Mr. Hamilton adds, that the people of Cambay were formerly hetorodox, or Bhuddills; and that Ariake, which corresponds with Kemkem, or Concan, is the Country of Believers, probably in contrast to the inhabitants of Cambay. How wonderfully does this accord with the rife and fuccess of Sevagee, and the Mahrattas, the restorers of Braminism in India, and the conquerors of the Mahomedan powers? The native superstition would naturally survive in the mountainous regions of the peninfula, while the Mahomedans overran the plains of Hindostan; and if Ariakè does fignify the Country of Believers, it is a proof that this part of the peninfula was, in the earliest ages, celebrated for its attachment to Braminism. The Mahratta chiefs are many of them Bramins; but when in power, we find nothing of that meek spirit of the Hindoos so much vaunted in Europe: they have dethroned their fovereigns; they are the most cruel ravagers and invaders; equally greedy of defolation as plunder; they have destroyed much, and restore nothing: in short, they have made it a question, whether the whole people were not happier under the government of the Mahomedans, than their own. The house of Timour was a mild dynasty; Aurengzebe, indeed, was a tyrant, a perfecutor, and a hypocrite; but Acbar was the father of his country. But to return.

The circumstance of the tides is not peculiar to this place, though they are more violent here than elsewhere; for almost all the rivers of India are large, and have both the flux and reflux of extraordinary strength, conforming with the moon, new and full, as well as for three days after each, and falling off again in the intermediate fpace;

space; but at Barugáza this violence is more remarkable, so that without warning you fee the bottom laid bare, and the fides next the coast, where vessels were failing but just before, left dry as it were in an inftant; again, upon the access of the flood-tide, the whole hody of the fea is driven in with fuch violence, that the ftream is impelled upwards for a great number of miles, with a force that is irrefiftible, This makes the navigation very unfafe for those that are unacquainted with the gulph, or enter it for the first time. No anchors are a fecurity; for when the vehemence of the tide commences, there is no intermission, no retreat : large vessels caught in it are hurried away by the impetuofity 39 of the current, and thrown on their fides, or wrecked upon the shoals; while the smaller ones are completely overfet 60. Many also that have taken refuge in the creeks. unless they have fortunately changed " their place in due time, (which it is very difficult to do, on account of the inftantaneous fall of the water,) upon the return of the tide are filled with the very first head of the flood, and funk. But all these circumstances united concur more especially, if the new " moon falls in conjunction with the night tide; for then, if you have been prepared to enter upon the first of the stood, and when the sea appeared perfectly calm, you shall hear, in a moment, a rushing found like the tumult of battle,

with high tides.

<sup>ு</sup> Tரி 'பிர்க் is a corruption for which nothing occurs. Perhaps நலில்லோக சர் கிக் ?

So the Oriental Navigator fays, "Near Dagon the tide runs fo rapidly, that if the veffel fhould take the ground he maît overfet immediately, and in all probability every foul on board perifih, which often happens through the segledt or obthinacy of the pilots. P. 207. Another part, near Gogo, is deferibed as very daneerous; and environed with rocks and

shoals; and he notices that the tide runs fix miles an hour. P. 206.

<sup>&</sup>lt;sup>60</sup> Or ā, μê διμές, Dodwell reads διείση, rowed off, rowed through; which I follow.
<sup>60</sup> Σομφικός, the moon in conjunction with the tide. But συμμενίας does not occur in the lexicons: may it not be συμενίας? Hudon renders it interlunits, which has little-to do

and the water driving forward with the utmost impetuofity, covers the whole of the bare shoals in an instant.

It will immediately appear, that this description relates to that fort of tide which is called the Bore 63, and is common to many places in Europe as well as India. On the coast of Egypt, or in the Red Sea, the author could have feen nothing that refembled it, and he dwells upon it, therefore, with more minuteness than a modern observer would employ; but from this very cause it is that we have a picture which cannot deceive us, and a conviction that the author relates what he had himfelf experienced.

We come next to the enumeration of the countries with which Barugáza is connected, and its relative fituation with regard to the provinces that furround it. Among thefe, on the north-west, lic the Aratrii, Rachoofi 4, and Tantháragi, names with which we are totally unacquainted, as they do not occur in any other author; but that they lie towards the north-west, between Guzerat and Multan is manifest from the succeeding district of Proklais, which comprizes the city of Bookephalos, for that we know to be in the Panjeab. He then adds, that beyond Proklais, still farther to the north-west, lies the province of Bactria, governed by its own 65 kings. Here we may observe, that the country between Guzerat and the Indus is to this day less known than any other part of India: it is a fandy

Macareo, in Pegu, by Cassar Frederick. He mentions fixtions in that river like thefe; and adds, that the Macareo in Cambay is nothing equal to that of Pegu. Hackbuit, ii. p. 224. " The Rachoofi are the giants of India, as

I learn from Mr. A. Hamilton, of Edinbro'. 45 Bayer's catalogue of Bactrian kings ends 134 years before our era, and therefore he has

<sup>6</sup> See the description of the Bore, called no king for the age of the Pariplus. For one Sanitia Som Thus yours, he proposes to read ψπο βαπιλείων τότω: στων. And forme correction is wanting ; for some neither agrees with 13m; or visco. May not the merchant of Periplus have heard of a Bactrian dynasty, and assigned

it to his own age after it was extinct? Bayer imputes the age of the Periplus to Aurelius Antoninus. Hift. Bad. p. 98.

defert, affording refuge to tribes of Rajpouts, Hendouans, and Ashambetis, called Jams, who are all without fixed habitations, and plunderers like the Arabs. These may correspond " with the hordes mentioned by the author; but from Minnagar upwards, to the Panjeab and to Bactria, we can follow him with more precision; for in these parts, he says, there still remain memorials of Alexander and his conquefts on the Indus; fuch as altars, the entrenchments of his camps, and very large wells. The last particular feems evidently to refer to the wells which Alexander opened in his three days march to the East from the eastern branch of the Indus: they were on the route to Guzerat; and the route between the Indus and that province is kept open, at this day, only by wells of this description in the desert. But we are told afterwards, that Alexander marched eastward from these countries to the Ganges 68. neglecting Limurike, and the whole peninfula on the fouth. This only proves that our author was a much better merchant than an historian; but he redeems his error by the preservation of a circumstance which fell under his own observation; which is, that coins with the Greek infcriptions of Menander and Apollódotus, who reigned in this country after Alexander, were still current in Barugáza.

<sup>&</sup>quot;Hudion wiftes to convert Aratrii into the Panje-ab, and thence with a north-westerly Arii, and Rakhoosi into Arachosii. So far direction to Bactria.

as Ária and Aracholia are connected with Bactria, there is reason in this; but if there is any order observed in arranging these tribes, who could fall into this error, might be mist they ascend with the Indus to Moultan and taken in regard to the kings of Bactria.

# VII. KINGDOM OF BACTRIA, TÁGARA, PLÍTHANA, OZÉNĚ, DEKAN.

THIS Apollódotus is hard to discover, even by the scrutinizing accuracy of the learned Bayer; but Menander he has introduced into the catalogue of his Bactrian kings, and with a most reculiar diffinction, that he had extended his fovereignty down the Indus. and over the Delta of the Patalene 69. This extraordinary influence of the Greeks, in these distant regions, is no more to be wondered at, than the erection of kingdoms by the defeendants of officers of Ginghiz Khau, Timour, or Nadir Shah: the heads of a conquering army are all as ready to divide an empire, as the fucceffors of Alexander: and the officers of these successors, as eager to revolt from their principals, as the principals from the family of the conqueror; thus rose the kingdom of Bactria, by the revolt of Theódotus from the monarch of Syria, which maintained itself for near an hundred and twenty years, and confifted at one time of a thousand cities: fimilar to this, perhaps, was the fovereignty of Apollódotus, who feems to have had fome provinces towards the fources of the Indus, which, in the obscurity of the Syrian history, cannot now be afcertained, and the memorial of which is preferved almost exclusively in the Periplûs.

That the coins," of these princes should pass current at Barugáza,

<sup>6</sup> See Strato, p. 471. Bayer, Hift. Bactriau,

<sup>&</sup>quot; Paolino informs us, that P. Pavoni, a millionary in Myfore, found a coin-of Claudius in the river Caveri. P. 98.

Renaudot's Arab, p. 15, mentions a Thatarian drachm, which weighs half a dram more than the Arabian drachm. But this is not a foreign, but a domedic coin; it bears the die of the prince.

is no more uncommon " than that the Venetian fequin ", and Imperial dollar, should be at this day current in Arabia, or that the Spanish piastre should pass in every port of India and the East; that is, round the world from Mexico to Manila, and in fome inflances. perhaps, from Manila to Mexico again. A fact ftill more worthy of notice is not to be omitted, as it is an observation appropriate to a merchant 72; which is, that the denarius, either gold or filver, was exchanged with advantage against the specie of the country. This is in correspondence with the testimony of Cosmas, almost five hundred years later; who takes occasion, at Ceylon, to mention, that the Roman money was received, and trade carried on by means of it, to the utmost extremity of the world, no nation having a [standard of ] coin pure enough to compare with the Roman. And it is a truth (as I learn from Clark on Coins), that the Byzantine flandard was not only the pureft, but most permanent, of any in the world.

Before we can proceed to the commerce of Barugáza, we have other relative fituations to confider, as Ozênê on the Eaft, and Plîthana, and Tágara, on the fouth-eaft. These Lieut. Wilford has concluded to be Ougein, Pultanah, and Deoghir. There is severy reason to adopt his conclusions; and if, after the several circum-

<sup>22</sup> I do not wish to deprive either Bayer, or Robertion, or Maurice, of the honour of thefe observations, previous to the prefets publication; but they could not be omitted here, as forming part of my plan; and I had obtained my information previous to confulting any of their works. An author, in the legal phrafe, taker satking by fach an affection; be deferves mothing but what the vender pleafe to allow

him. See Bayer, Hiff. Bact. p. 108.

<sup>&</sup>quot; Nichultr fays, vol. i. p. 137. that Greek, Perian, and Roman coins are fill current in Curdiftan; and Nicolas di Conti Ramufio, tom. ii. p. 286. mentions the Venetian ducat as current in India in 1440, that is almost 60 veras before the Portuguele reached India.

On the coast of Malabar, women appear at this day ornamented with fequins, coins of Portugal, and English guineas, by way of necklace. Moore's Natrative, p. 203.

flances already enumerated, we have cause to think highly of the information of our author, we shall be disposed, after tracing these several connections, to allow that there is no specimen of ancient geography so completely fastisfactory, or so consonant to truth, as the portion now under contemplation.

Towards the cast of Barugáza lies Ozênê, which was formerly the capital of the country. What are we to understand by this, but that the Parthians, who were now mafters of Minnagar, and poffeffed of Guzerat, had driven the native Hindoos out of power, and feized upon the government of these provinces themselves? And what do we see in this, but the prototype of the Mahomedan usurpations, which have been too faithfully copied by European powers? and whose place we now occupy as masters of Surat, Baroache, and Cambay, at the present hour. When the Europeans first reached India, Surat was the principal feat of commerce on the north, as Calicut was on the fouth; and the merchants of Guzerat were the richest and most active traders in India. Surat is not more than forty or fifty miles from Baroache, and Baroache 74 is the Barugaza of the Periplus. In the age of that work, the merchants of this country were not less vigorously engaged in their pursuits: they traded to Arabia for gums and incense, to the coast of Africa for gold, and probably to Malabar and Ceylon for pepper and cinnamon. If I could find any thing in history to countenance the idea of the Hindoos" being feamen" in any age, I should place

<sup>&</sup>quot;Al Eddiff calls it Berug, and Beruts; the teftimonio, ne quello che naviga per mare è def. English now call it Broche. Strabo wirtes Bargola. D'Amille, Geo. Anc. p. 88. Bur this perso. Marco Polo, lib. ni. e. 20. p. 54ni dubious; for the Burgoof of the Periplus "This relates to the Hindoos of Coronandel. "As William Jones has fipopofed, that."

<sup>15</sup> Quello che bee vino non si receve per from Bottomry being mentioned in the laws

them in this province. But as Barthema informs us, that in his time the Hindoos at Calicut' left all navigation to the Mahomedans, fo it thould feem that the prohibitions of their religion had been uniform from all ages. Pliny speaks as strongly of the Arabs on the coast of Ceylon; and Arabs' there must have been at Barugáya for the same purpose, unless it should be discovered that there was some cast, of a degraded fort, that supplied their place. Fishermen there are, but they can cook and eat their food on shore; and even siftermen are an abomination in Malabar. Merchants, however, may grow rich at home, while other nations are their carriers; and that the greatest trade of India was in that age fixed in Guzerat, is evident, not only from the enumeration of articles at this port, but from the general importance it bears in the mind of the author, and the circumstantial detail of all that is connected with it.

The connection with Ougein 79, and the mention that this place was once the feat of government, is in perfect conformity with

of Mens, the Hindoos mult have been navigators in the age of that work. Now, that hips of Hindoos went to fen, and that a proportionate intered for the hazard of the fea was to be paid on money borrowed, mult be true; but it remains to be proved that the feamen were Hindoos. And his endeavour to prove that they uled the fea is former ages, provers that it is contrary to their principles, provers that it is contrary to their principles and practice in later times. It is eastly within death of the contract of the principles here able to earry their feopra by fen; and is design this, there feams to have been employed money, difcipline, and a watery of fictions to false their confesione.

" In urbe Caleshut qui Idola colunt [Hindoos] non fulcant maria, id munus Mahumetanis delegatur. Quorum numerus in ea civi-

tate folg excedunt quindecim millia. Barthema apud Grymzun, p. 112. And in Orme's account of the fleets near Bombay, one party were Siddees, or Abyflinians, and the other Araba chieffy. Angria was a Hindoo, as well as Sevage; but his fleets were full of Araba, and fo were those of his prefections. See the attack made on an India flap called the Prefident, in 1683. Ormit, p. 171.—The Araba... the first mavigators in the world, in Ret. Indian Case. Sie John Chardon, in Ret.

naudot, p. 147.

When the Portuguese came to India, the Arabians transacted all the trade of the East. Renaudot, p. 173.

See Hunter's journey from Agra to Ougein. India Annual Register 1800, Mistel. p. 279. modern information; for Ougein 80, as it is at prefent fubject to-Scindia, and the capital of his jaghire, fo was it, from the earliest ages, the properest situation for a metropolis, as being in the centre of those tribes of Hindoos which have been less" intermixed with foreigners, and less subject to invaders, than the other tribes of Hindoffan. Its pre-eminence and importance are still farther proved by its having been, and ftill continuing, the first meridian 12 of the Hindoos, which appears from accurate English observations to be in long. 75° 51' o" si from Greenwich, and its latitude 23° 11' 1'2". The ruins of the ancient Ozêne are still discoverable, at a mile distance from Ougein; and coins and bricks are ftill dug up there, at the depth of fifteen feet or more. Pliny makes no direct mention of Ozênè, but incidentally only, as denoting a species of the spike-

Hunter.

4 The revolt of Sevajee, the founder of the Marhatta power, was in the time of Arungsebe, when the house of Timour was in its meridian fplendor. These Hindoos of the Dekan had never been reduced; and though the Rana of Ougein, who was the principal lon. Paolino, p. 309. of the Hindoos of Agimere, had been fubdued by Acbar, the interior was so difficult of access, that there had always remained tribes in the mountains who were independent. Sevajee (or, as he is otherwife called, Bonfoola) first reduced the mountaincers of the Dekan into order, and formed them by difeipline till he fet the Mogul power at defiance :

Written Ujjayini, Ujjein. D'Anville, zebe, and has become the greatest Hindoo India, p. 95. Ujjavini awinti, or avanti, power fince the first invasion of the Mahomedans.

\* See Affat, Researches, Lond. ed. v. p. 194. and India Register 18co, 292. Miscels longitude determined by eleven observations of Jupiter's Satellites; latitude, by eight .--Another first meridian was at Lanca, or Cev-

b Jeffing, or Jaya Sinha, foubadahr of Meliva, in 1693 constructed observatories ac Ougein, Dehli, Benares, and Matra. Sie Rob. Barker describes the observatory at Ougein, and found the latitude to be 23° 10' 24", which the native observers made 23' 10', feconds they do not notice; but it appears likewife that they had inflruments and books he plundered Surat repeatedly, spread his in- from Europe. Mr. Hunter doubts the anticursons on every fide, and levied contributions quity of Hindoo aftronomy, and informs us, to a vaft amount. He died poffeffed of a that when he was at Ougein, Jelling's obferfovereignty, which grew up during the decline vatory was turned into a foundery for cannon. of the empire under the successors of Aurung- Afiatic Researches, v. p. 196. Lond. ed.

nard; but Ptolemy calls it the capital of Tiaflánus, and his royal refidence: he places it on the Namádus, or Nerbudda, which is the river of "of Barugáza; which river is faid to rife out of the fame lake as the Saone, and which takes an eaftern direction; fo that the course of the two rivers into the sea, east and west, turn what is called the peninfula of India into an island.

D'Anville" confiders Ougein as the residence of Porus, who sent an embassy to Augustus. The rajah is called Rhana, and pretends to be descended from Porus, who was deseated by Alexander. Fabulous accounts of Alexander are as current in the East, as in Europe; and for the sake of proving the antiquity of his family, a prince might have the vanity to think it an honour that his ancestor was deseated and conquered. But Porus signifies a chief or sovereign: it may have been an appellative, as well as a proper name; and the sovereign of Agimere, if his influence extended over Guzerat in the age of Augustus, might have had commercial" transactions to regulate with the Roman empire.

From Ozênè every fort of commodity is brought down to Barugáza, which can contribute to the fupply of the country, and many articles for foreign trade ", comprehending

'Ovoxivy Lugia, - - Onyx stones.

Mugginn, - - - Porcelane.

Endovec Indinal. - - Fine muslins.

Μολόγιναι. - - Muffins of the colour of mallows.

<sup>&</sup>lt;sup>6</sup> Major Rennell, in his first map, placed it on a firearm that ram into the Nérbunday in 120 fnips which Strabo faw at Berenikè actahic corrected map, ke is on a branch of the ally reached India. Siparch, which joins the Chumbal, and falls into the Junna.

<sup>&</sup>quot; Antiq. de l'Inde, p. 95.

Ίκανου χυδαΐου όθόνιου. -A large quantity of ordinary cottons.

And many articles that only pass through Ozênê to the coast, from the country farther inland; as from the Pani-ab 19,

Νάρδος.

Spikenard, of different forts. Πατιοπατι

Καβαλίτη,

Kó505, Koffns. Βδέλλα. Bdellium. A gum.

The Imports at Barugáza are

Oliver. Wine

Ιταλικός προηγεμένως, Italian wine, in preference to all other.

Λαοδικανός. Laodicêan wine. Syrian.

ApaGmo'c. Arabian. Quere, Palm, or Toddy? Χαλκός, -Brafs.

Κασσίτεους. Tin.

Μόλυβδος. -Lead.

Κοράλλιον, Coral.

XDUGÓLIGOV. Topazes.

Ίματισμός, Cloth. απλές, plain.

νόθος παντοιος, mixed, of all forts. Πολύμιται ζώναι πηχυαίαι, - Variegated fashes, half a yard wide.

mart through which it might regularly pafe " I imagine all these to be different species out of Tartary, or Thibet, its proper foil. of Nard, taking their name from the places Al Edviffi ufes the term Myrobalanos Kabolinos, from which they come. And if a conjecture for the Myrobalans of Kabul, p. 66. may be allowed, Kacatira is from Kabul, a

Στύραξ, - - - Storax.

Μελίλωτον, - - - Sweet lotus.

"Yeλoς ώργη, - - - White glass.

Σαυδαράκη, - - - Ore of Cinnabar.

Στημι, - - - Stibium for tinging the cyes.

Μύρον ε βαρύτιμου, - - Ordinary perfumes, or unguents,

ະວີຣີ ຫວານ - and in no great quantity. Belides specie, upon which there was a profit, and the presents that

Bettues specie, upon which there was a pront, and the prelents that went up to the king at Minnagar, as mentioned before. It is not evident why these presents were not rather landed at Barbáriké, which was the direct port for Minnagar, than at Barugáza; but our author says, that the king of Minnagar was sovereign of Barugáza also. Perhaps, by their being mentioned here, they went only to the vicercy or foubah of the province. The expression in the text is dubious"; but the context seems to imply, that from the country to which these presents went up, there came down in return, distinct from the exports of Barugáza,

Nαρδος, - - - Spikenard.

- Κόστος, - - - - Koftus.

Βδέλλα, - - - Bdellium.

Έλέφας, - - - Ivory.
'Ονυχίνη λιθία, - - - Onyx ftone.

Σμύρνα, - - - - Myrrh.

Λύκιον, - - - Box thorn.

Οθόνιον παιτοΐεν, - - Cotton of all forts.

Σηρικόν, - - - - Silk.

<sup>&</sup>quot; Tý firen i zer kelme rele zamile. Had Guzeret revolted, and fet up a king of a love, st that time h

Μολόχινου, - - - Mallow-coloured cotton.

Napon, - - - Silk thread.

Патарі макро̀у, - - - Long pepper.

And other articles from the ports in the neighbourhood. Several of these are the same as those that were specified as procurable at Barugáza, and consequently we can see no reason for the recapitulation, except the different means of obtaining them from a different part of the country. Such, however, are the commodities in general derived from the North and from the East, and such was the importance of the commerce of this place in the time of Pliny. Zizeris and Muziris, farther to the south, seem to have been the more particular object of the voyage by the monstoon, across the sea from Arabia to India direct; but in our author's age, though he mentions Muziris, it is transiently, in comparison with Barugáza and Nelkunda: these seem to have been his grand marts. And for Barugáza, he says, the fleets left Egypt in the month of Epiphi, or July.

He fill perfifts farther in the execution of the fame defign; for, after flating what was obtained from the l'anj-ab and Ozénè, he proceeds next to the fouth, in order to fhew what was the connection between Barugáza and the Dekan. This is, if the boaft may be allowed, the peculiar pre-eminence of the work: it belongs to this author alone, as far as I have difcovered, to give the true direction of this weftern coaft of the peninfula, and to flate, in direct terms, its tendency to the fouth, while Prolemy fleteches out the whole angle to a flraight line, and places the Gulph of Cambay almost in the fame latitude as Cape Comorio.

But the declaration of the Periplûs is this:—From Barugaza, the coast immediately adjoining which ran up north [to the river Mais,

or Mahi], now stretches directly to the fouth; the country is therefore called Dakina-bades 52, because DAKHAN, in the language of the natives, fignifies SOUTH, Of this country [which is called DAKHANI that part which lies inland, east of Barugaza, comprizes a great frace of wild and defert country, and large mountains, in which are found leopards, tigers, elephants, vast ferpents, hvenas. and baboous" of various forts. [But in the inhabited parts] there are also a great variety of different nations, and exceedingly populous, quite across the peninfula to the Ganges ". Besides this, in the territory of Dakhinabad there are two emporia, or marts, of more particular importance; for at the distance of twenty days fouth from Barugaza lies " Plithana, and ten days east of Plithana is found Tagara, which is the largest city in the country. The commodities from these two cities are brought down, through roads of great difficulty, by land-carriage, to Barugáza; that is, from Plithana, a great quantity of onyx ftone; and from Tagara, ordinary cottons "

wad, fouthern region. Bayer. - Dachina. Paolino.

<sup>24</sup> Inter Simias, efferation Cynocephalis natura, ficut Satyris. Pliny, lib. viii. c. 54c. 80. Hardouin. See the authors he cites. Ariftot, lib. ii. de Natura Anim. c. 13. Palmerius, &c.

<sup>44</sup> Tà μίχμ τῶν συνίγηνε, which is nonfenfe; and Hudion and Stuckius very properly read μέγει τῦ Γάγγος.

<sup>&</sup>quot; There is evidently an omiffion in the text; for two cities are in the context, and only one of thefe is named. It appears that a part of the fentence, and not the name only, is wanting.

<sup>9</sup> Dakin-abad, city of the South. Dakhing- ple, like the mallow-flower. There is nothing more fingular in this than in the blue Surate. which at this day have a constant fale on the opposite coast of Africa, in Abyssinia, and in the ports of the Red Sca. Paoling interprets μολόχοια, chintz : tele finiffime dipinti et richamente. P. or. Fine cortons are supposed to

derive the name of mulius from Moful, on the Tigris; a name which they had in common with gold tiffue and filk, because these articles were either made or to be purchased there. See Marco Polo, lib. i. c. 6, tutti li panni d' oro & di feta che fi chiamana Moffulini fi lavorano in Moxul. Notwithitanding this high authority. I am fometimes inclined to think. that Malogane is the origin of Moffelius, or

<sup>&</sup>quot; The cottons here called workyon. Lieut. muslins; though I have nothing to build on Wilford fays, are those dyed of a whitish pur- but the proximity of found, and conjecture.

in abundance, and all forts of mullins, with a variety of other native productions which are not specified.

It is manifest, that of these two cities, Deoghir is Tágara, and Plíthana is Pultaneh; that the difficult roads are the Ginatis "; and the mountains, that chain which runs parallel with the coast the whole length of the peninsula, from Guzerat to Cape Comorin. The country also between Guzerat and the Ganges does contain the deferts specified, not only in the valt tract called Berar, but in many other parts of the extensive territories occupied by the Mahrattas. The animals likewise are appropriate, and the whole is such a picture as no ancient geographer supplies in so distant a quarter of the world; so accurate, that it is hardly surpassed by Strabo, in his description of the countries of Europe.

Deoghir." was the feat of a Hindoo government as late as 1293, when it was taken by Feroze II. and is now a ruin near Elore, within four coffes of Aurungabad, on the River Godavery. It was the capital of the province of Doulatabad; and the centrical lituation of thefe three cities, afforded a convenient polition to the Patan emperors, as well as Aurengzebe.", from whence they might propagate their conquefts in the Dekhan. But the fubterraneous excavations.

at

" Aurungzebe was ufually at Amednagur, Orme.

found in the more recent fluctures of their

The Ghauts are literally the passes from the low country, over the mountains, into the upper region; but are generally used for the mountains themselves.

<sup>&</sup>lt;sup>30</sup> Rennell has another Deogur upon the Tapti, p. 237. and Ptolemy has a Tingura, as well as a Tágara. His Tingura, indeed, is on the Nerbudda; but it is doubtlefs Deogur, near Nagooor. Rennell, Mem. p. 213.

<sup>&</sup>lt;sup>36</sup> See the wonders of twice trains diffujered in the magnificent and highly-entines work of Daniel, from the drawings of Wales. There is an apparent champ of antiquely upon these executions, superior to tufee of Elephanta, Mahaliporana, See for there are fewer figures difforced with a multiplicity of arms and heads, there is a grace almost Greeian in speemal of the delites, and throughout, much left of the delites, and throughout, much left of the grotting backgridt and offsection; than are

at Elore "", and the pagodas there, extending over a tract of two leagues at the prefent hour, imply an antiquity now inexplorable, and preferve the veitiges of a fuperfittion coeval with the remotest era of Braminium. These remains qualify the spot for the site of Tágara "a, as early as the account in the Periplus; and it is manifest that the author speaks of it as a capital of a province, or a kingdom at that time existing, and the centre of the commerce from the interior.

Lieut. Wilford has a differtation <sup>63</sup> on this city, inferted in the first <sup>64</sup> volume of the Afiatick Refearches, in which he makes the distances from Baroach agree with those of the Periplûs, by reckoning eleven miles as a day's journey for a loaded eart in that country; but twenty days fouth to Pultanah <sup>163</sup>, and ten days east from Pultanah to Deoghir, is more than I can find by the scale of any map which has fallen under my inspection; neither do I find Pultanah mentioned in the maps of d'Anville, Rennell, or de la Rochette, Great allowances, however, are to be made for the winding of the roads, and the difficulties of the intervening ghauts; while the ruins of Elore, on the actual site of Deoghir <sup>163</sup>, with the point of the

fuperflation. The wealth, the power, and the labour, requifite to form these excavations, equal, if not furpals, all that must have been employed in the editices of Egypt.

Editor has been viited by Thevenot and

Auquetil du Perron.
Deo Ghur, the Hill of the Gods. A.

Hamilton.

<sup>163</sup> As a commentator on the Periphis, many thanks are due from me to Licut. Wilford; and with the whole of his hillorical deductions. I perfectly agree. But his translation of wark-year payirus; écolésus, is refund, rather than correct: goods brought down to Baroach, or

cerried up to Tagara, is a phrafe as familiar in Crock as in English; and superse assista, without being a translation of Bala Ghasta, fully identifies the difficulties of the roads through the mountains; assistance; figurities after, as far as I can diffcover, but assistancy; and it it did, to bring carriages down an ofeast muft

be a folcoifm.

P. 369. Lond. ed.

p. 108.

Lieut, Wilford reckons 217 miles from Baroach to Pultanah on the Godavery,

D'Anville has placed Tagara at Satara, in the Mahratta country. Antiq. de l'Inde,

compass south-east from Barugáza, give a probability to the whole which is irrestitible.

It were to be wished that other Gentlemen, employed in the East, would apply their local knowledge to the removal of these obscurities, as effectually as this meritorious officer has done in the present instance. Observations on the spot, confirmed by evidences peculiar to the country, form the true ground of proof, on which alone those who collect and compare in the closet ought to depend. This evidence is appealed to by Lieut. Wilford; for the name of Tágara, written with the orthography of the Periphas, occurs in a grant of land found, engraven upon copper, in the Isle of Salset, near Bombay; and the rajah of the inland capital, by this monument, seems to have been connected with the coast, as effectually as Tágara was connected with Baroach eighteen centuries ago.

If we should now describe the arc of a circle, from Minnagar on the Indus, through Ougeln, to Dowlatabad on the Godavery, of which Baroach should be the centre, we might comprehend the extent of the intelligence acquired by the merchant of the Periphs. But allowing that this was the knowledge of the age, and not of the individual only, where is this knowledge preserved, except in this brief narrative? which, with all the corruptions of its text, is still an inestimable treasure to all those who wish to compare the first dawning of our knowledge in the East with the meridian light which we now enjoy, by the intercourse and conquests of the Europeans. An arc of this fort comprehends near three degrees

<sup>&</sup>quot;? The date of this grant answers to the reader should refer to it, he will find, that in year 1018 of our era: it was communicated the conveyance of land the lawyers of all to the Affatts Koeciety by General Carnack, countries are equally liberal of words. Soe and has every evidence of suthernicity. If the Affatt Refearches, vol. i. p. 357. Lond. ed.

of a great circle; and if upon fuch a space, and at such a distance from the coast, we find nothing but what is confirmed by the actual appearance of the country at the prefent moment, great allowance is to be made for those parts of the work which are less perspicuous; for the author did certainly not visit every place which he mentions; and there are manifestly omissions in the text, as well as errors and corruptions.

VIII. ARÍAKÉ OR CONCAN, THE PIRATE COAST, AKABAROOS, OOPARA OR, SÚPARA, KALÍENA OR BOMBAY, SEMULLA, MANDÁGORRA, PALAIPATMAI, MELIZÉIGARA, TÓPARAN, TURANNOS-BOAS, SESEKRÉIENAI, AIGIDII, KÁINEITAI, LEUKÉ.

That the author was at Barugáza, cannot well be doubted by any one that adverts to the variety and minuteness of his descriptions at that place. Whether he went farther down the coast to the fouth, or took his account from other voyagers, may not be so certain. D'Anville "at suppose that he accompanies us to Cottonara, and then takes one bound to Comorin and Ceylon; but I wish to make no affection either way. My own doubts arise from the impossibility of discovering "be those characteristic features, which are so easily traced in the narratives of those who have actually visited the country they describe. The coast we are now to follow, has sew bold or prominent distinctions; many rivers, but none large or majestic; many ports, but fitted mostly for the reception of the

. Antiq. de l'Inds, p. 112.

The diffrict of Nelkunda is an exception to this.

veffels.

veffels of the country alone; and only two capes worthy of notice, upon an extent of eight hundred and fifty miles.

Another method of inquiry is naturally fuggefted, by fimilarity of names; and of this I shall be as ready to avail myself as those who have preceded me in the attempt. Nothing, however, is more fallacious, if the fituation be not as correspondent as the name; and names seem to have such such as the name; and names seem to have such such as the name; and names seem to have such such as the name; and names feem to have such such as the name; and names of Dowlatabad; all three appropriate to different ages, and all now concluded under Arungabad. The names also of Al Edrissi, in the middle century, differ as much from the ancient names of Prolemy, Pliny, and the Perips, as they do from those of the cities and diffricts which are at present in existence. Mr. Orme, in the introduction to his illustrious history, has imputed this to the vanity of princes; and Tippoo Sultan confirmed this remark; by chancing the name of almost every place in his dominions.

The great feope for conjecture, and the very few places which can be afcertained of all those which are enumerated upon the coast which we are now to investigate, is compensated, in some degree, by the appropriate description of the provinces or districts we are to visit. I agree perfectly with Major Rennell, in considering this as an object of much greater importance, than the placing of a town or a harbour on the map. And the fact is, that the different nature and properties of the districts are indelible; while the fit of cities

<sup>&</sup>lt;sup>400</sup> Aurusgabad takes its name from Ay- his generals, and directing them all from this rangests, and feated here or at Amedoagur, point. This bigot, hypocritis, and tyrant, is in a centrical fination. He carried on his in-the range of the control of the con

or fortreffes has been changed, according to the prevailing interefts of the day, or the caprice of conquerors.

The whole western face of the peninsula, from Cambay to Cape Comorin, is nearly equal to fifteen degrees of latitude. This extensive tract appears upon the map divided into fix provinces, or diffricts, under the names of Cambay or Guzerat, the Concan, the Dekhan, Canara, Malabar, and Travancore ". Correspondent to thefe, we have in the Periplûs the province of Barugáza, the Lárikè of Ptolemy, equivalent to Guzerat; Ariake "15 to Concan, or the Pirate Coast, between Bombay and Goa; Limúrikè to Canara, between Goa and Malabar; the Kingdom of Pandion, answering to the upper part of Malabar, including Calicut and Cochin; Paralia to Travancore, as far as Cape Comorin; and the Pearl Fishery, extending from Comorin to the Islands of Rami-ceram and Manar. The limits of these will appear diffinctly in the prosecution of our inquiry; and if we fix the boundary of Larike at the Tapti, and include the modern Dekhan of the coast within the confines of Ariakè, our ancient geography will prove confiftent with the modern division of the provinces. For, notwithstanding the fluctuations of power, or the change of mafters, these are marked by characteristics that feem indelible. The only difference is, that the Periplus has no specific district equivalent to the Dekhan, but uses that term, in its general acceptation, as it is employed at the prefent day, embracing the provinces of the peninfula in contra-diffinction to Hindostan.

jectives with ya implied; but Aria, Limyra,

<sup>&</sup>lt;sup>311</sup> Travancore, though a kingdom of itfelf, or Cottonara, do not occur in the form of in generally included in Malabar, as well as fubliantives throughout the work. I conclude Calieut and Cochin.
<sup>312</sup> Apassa, Apapsas, Rottonapass, are all addressed in a differire likewife.

The Periplus feems to apply the name of Barugáza to the province as well as to the port; and this possibly, because at that time it was subject to Minnagar; but Ptolemy calls it Larike, and makes it part of the kingdom of Ozênê, with the other towns or places on the River Namadus or Nerbudda; and as long as there was a regular Hindoo power at Ougein, that city feems to be the natural metropolis of the country. With equal propriety, the Tagara of Ptolemy and the Periplus, is connected with the Pirate Coast, both comprehended in the province of Ariake, and both fubject to Balcokoorus, whose capital was at Hippokoora, supposed by D'Auville "3 to be the Balhara" of Al Edriffi". His title was King of Kings, and he was connected with another prince or rajah at Baithana, called Siropolémius "6, whom Lieut, Wilford "7 makes the Salibaham of the Hindoos, and his metropolis, Patian. I am not sufficiently informed, to confirm or invalidate these opinions; but I find that the Balahara "8 of Al Edriffi refided at Naherwalleh "9, the ancient capital of Guzerat, prior to Amedabad: and if fo, Ptolemy would have placed Hippokoora " in Larikè, and not in Ariakè, where it now

13 Antiq. de l'Inde, p. 93.

<sup>&</sup>quot; Paolino places the Balahara in Concan Af. Refearches, vol. i. p. 367. Lond. ed. (Kemkem), on the authority of Renaudod Arabiane. Balhara, he fays, is Balia Re not the Balbara of Al Edriffi. He adds, inines nothing, " Se D'Anville avesse fatto il viaggio dell' "India, prima di ferivere la fua Antichita del " India, non avreffe commeli tanti foropoliti " nei fuoi libri." P. 98. He treats none of us who write at home with greater civility. Hippokoors, the capital of Balco-kooras in . Ptolem's, is in Concan, or what in his man

answers to Concan, and not to Guzerat. . is P. 62. 116 Sri, or Shri, is an inferior title of respect. from the other side of the Ghauts.

like our Sir or Mr. Sec infeription at Tanna.

<sup>17</sup> Differtation on Tagara, p. 373. 138 See Bayer, Hift. Reg. Bact. p. 29. who Great King; but if in Concau, he is certainly acites feveral Oriental authorities, but deter-

<sup>110</sup> Nahroara, Nahrwara, Nahrwallah.

<sup>120</sup> Hippokoora, compared with the relative fituation of places round it, might lead us to fomething not very diftant from Poons, the present feat of the Mahratta government, were it not on a river that comes into the Western Sea. Poons is above the Ghauts, about 100 miles S.E. from Bombay; and there is no river, on this part of the coalt, that comes

stands in his geography. But I am persuaded that both Ptolemy and the Periplûs agree in the general division and relation of Larike and Ariakè, and differ only in the appellations they have adopted. The names of places, rivers, mountains, and provinces, in Ptolemy, are as aftonishing as his errors in position, longitude, and latitude, are manifest. His positions, however, are for the most part relatively right, though they are effentially wrong; and the errors of his longitude, in which he is principally miltaken, must have arisen from his manner of acquiring information-by interrogating the merchants and mariners at Alexandria, whose reports were from memory, and not from journals. But it is evident, that many of thefe must have penetrated far inland, otherwise he could not have left us the great outline of truths which is still manifest in his works, and which makes us forgive all his particular errors, in confideration of the general and important information that we obtain.

VIII. I am now to enter upon the description of this coast, incidentally traced by Hardouin, Robertson, Rennell; Paolino, and many others; but where no one has regularly gone before me, through the whole extent, except d'Anville. His conclusions I shall be compelled to question, but it will not be done without diffidence on my part, and without due respect to his learning and abilities; for d'Anville is the first writer, properly speaking, who has taught us to investigate the geography of the ancients, by tracing the characters of different coasts and countries as they exist at present: to him we look up, as to a master in this branch of the science; and even where his errors are demonstrable, we cannot but respect the extent of his learning, experience, and information.

At the commencement of our inquiry, the first information we receive from the Periplûs is, that the extent of the coast from Ba- rugáza to Limúrikè is feven thouland stadia, or seven hundred miles: but as this would carry us, at one step, to Mount d'Illi 121, it is rejected by Rennell, d'Anville, and I believe all the writers who have examined the fubject. The commencement of Limurike, our author has placed at Naôora, Tyndis, and Muzîris. And as it will hereafter appear that these places must be near the northern limit of Canara, and that therefore we have every reason to conclude Limurikè has nearly the fame limit as that province, we cannot take off lefs than two hundred from the feven hundred miles, to preferve the proportion of the coast. This is one reason, among others, which may induce a doubt, whether or not the writer of the Periplûs performed this part of the voyage himfelf.

The first places mentioned, upon leaving Barugáza, are

Akabaroos 123, Oopara, and Kallicna.

In

in In confideration of this circumflance. and my general dependance on the measures of the Periplus. I was originally disposed to confider Ariake as comprehending the whole coast, from the Tapti to Mount d'Illi : and if the Province of Limurike were to commence at that cape, the islands off the coast of Limurike, that produce the tortoife-shell, according to the Periplûs, and which may be well assumed for the Lack Dives, correspond better with a Limurike fouth of d'Illi, than north, But the firing ground that Rennell has taken for affiguing Nelkunda to Neli-ceram; the circumflances at that place according to effentially with the ancient account; the division

dion, that is, Canara and Malahar; added to the correspondence of the illands on the couff. made me prefer the arrangement which I have adopted. The detail of this will be explained

at large as we proceed. 118 It is not affectation, or a love of fingstlarity, that induces me to affume the Greek kappa, rather than the c of the Latins, or the English diphthong do, for the Greek es; but . a hope that the true found, and true orthography, may direct the eye or the ear of modern travellers, or voyagers, to the discovery of ancient names. The differtion of European names by Oriental writers is aftonishing to us: and our mode of exprefling Oriental founds, between Limurike and the Kingdom of Pans received by the ear, must be equally offensive

In regard to Kalliena, all fuffrages " are united to fix it in the neighbourhood of Bombay; for Bombay is upon an ifland, clofe to which, on the main, was an ancient city called Gallian. The ruins of Gallian fill remain, and are noticed by Fryer " in 1675, as the most glorious ruins in the Dekhan the Mahomedans ever had to deplore. His account proves it to have been a city of the Hindoos, and its fituation commanding Bassen, Sassen, and Bombay, gives it a pre-eminence as a mart of commerce in all ages.

But if we have so much concurrent testimony for fixing Kalliena near Bombay, we have almost two hundred miles of coast on which we are to look for the other two places named; and if Oópara be the Soopara of Ptolemy, as is generally allowed, it must be a place "s of some note's"; for Subara is joined with the mention of Cambay, in the middle ages, by Al Edrifil. It is supposed, by d'Anville, to answer to the Sesarch el Hende of the Oriental geographers, in contradistinction to the Sesarch el Zinge on the coast of Africa, which is the Sosala of the Portuguese; and these two Sosalas, one in India, and the other in Zanguebar, are supposed to be in constant habits of mutual commerce and correspondence, by means of the alternate monsons.

An intercourse of this kind between Guzerat, and the coast of Africa, I have mentioned in the former part "70 of this work, which

to their perceptions. Ebn Haukal writes Sakailah, Akrites, and Kibres, p. 53. which would certainly require form attention of the mind before a common reader would discover that they are Sicilia, Creta, and Cyprug. <sup>120</sup> Orme, Rennell, Robertson, d'Anville,

<sup>&</sup>amp;c. Cofmas has Caranja in the harbour of milton.

Bombay.

The Mass the fee of a biftop, as early as the fixth century. Ka is τη Καλλιάσε δι τη Καλλιάσε δι της καλμήτη και Επίτενασες έτα δια Τιρεσίας μεται. Cofinas Paolino Joo. That is, from Moful of Marco Polo. Lib. i. c. 6.

\*\*S Supura figuifies a fulendid city. A. Ha-

milton. 127 Pages 145, 146. 253.

ombay. "A Pages 145, 146. 2
"A Orme, Hift. Fragments, note 30.

the Periplûs describes as previous to the voyages of the Greeks in the Indian Ocean, and totally unconnected with them; conducted by native merchants on both fides, or by Arabs, who were carriers for both. On this latter point there can hardly be a doubt, when we find that the veffels employed in this trade fometimes discharged part of their lading in Zanguebar, and proceeded afterwards to Arabia: and when we learn from the fame work, that most of the fettlers on that coaft were Arabs, and feveral of the places fubject to the different sheiks of Arabia, as they are at this day. These are the large veffels from India, which Agatharchides describes as early as the time of Philadelphus, found by the Greeks in the ports of Arabia; and from which they obtained all the commodities of the East before they went to India themselves. This commerce we may carry back to the ages long antecedent to history, and conclude, that as the monfoon must be known to the inhabitants of both coasts from the time they were inhabited, fo must the communication have been opened from the earliest period in which mariners ventured to commit themselves to the ocean.

It is almost superfluous to add, that the Sefarch both of Africa and India has been converted into the Ophir of Solomon, as it has suited the hypothesis of different authors, to carry his fleets to the east or to the south; and fortunately, both opinions may be maintained or combated, without danger of controverting the authority of seripture.

After all these various particulars, which are left to the discretion of the reader, there does appear something of importance in the circumfance of Sooppara continuing a place of note, from the age of Ptolemy and the Periplus to the time of Cosmas and Al Edriffi 108; and it feems not impossible to determine its fituation, by observing that Ptolemy places it on the north of the first great river fouth of his Namadus, or Nerbudda: this river must be the Tapti, and the place north of the Tapti must be Swalley, or some place near it; in the front of which lies the road of Surat. How d'Anville could carry this down to Sifferdam "", feventy miles fouth of Bombay, when he unites in fuppoling Kalliena and Bombay to be the fame, is inconceivable; but as he places his Sefarch el Hinde there also, the resemblance of a name has made him difregard the arrangement of his author; but if the author has any meaning. Soopara must lie between Baroache and Bombay, and most probably in the vicinity of Surat. Surat itself is faid to be a modern "so city; but a mart in its neighbourhood must always have commanded a great access to the interior, as the Tapti extends upwards, from the fea, full four hundred miles, and communicates by its branches with a variety of districts which are rich and flourishing. It is this circumftance which has made Surat fuperior in commerce to Baroache, for these three last centuries, as being easier of approach: and whatever city fupplied its place on the Tapti must have partaken of these advantages, and such apparently was the Soopara, or Oopara, of the ancients. It is very remarkable, that Rennell has an Oolpara little to the north-east of Swalley, in his corrected Map of India; but as he does not mention it in his Memoir, I cannot discover whether it is ancient or modern-a city or a village. I build little upon fimilarity of names; but as many gentlemen, now in England.

<sup>\*\*</sup> By the repeated mention of Subara with purpole. But I cannot always follow his Cambay in Al Edriffi, I had hoped to connect wanderings.

\*\*Artiq-de l'Inde, p. 104.

he means to place it north of Baroache, which he calls Beruh; if so, it will not answer our his Account of the East Indies, vol. i. p. 144.

have been refident at Surat, if any thing should have occurred to their observation, they will be gratified by the introduction of this name to their recollection.

For Akabaroos I can find no reprefentative: it may be fixed any where between Baroache and Surat; but as there is a small stream called Kim, by Orme, in the intermediate space, it is here that it should be looked for, were there any thing to direct our inquiries. But this place was apparently seldom frequented, and therefore it is not to be expected that much information should be left us by a merchant of Alexandria.

To return to Kalliena, the last name of the three mentioned. I join most readily in opinion with those who have preceded me in the inquiry; and consider the tablets discovered at Tana in Salset, as a most valuable monument "for connecting the government at Tágara with the district on the coast. It is foreign to this work to enter into the present state of Bombay, under the power of the English; but as the first factory of our countrymen was established at Surat, it is interesting to observe how the acquistion of Bombay has enabled them to extend their influence over Surat, Baroache, and Cambay; to occupy the commerce of Guzerat, and to possess the power of dominion in those marts, where the Romans enjoyed only the privileges of merchants.

In the age of the Periplûs, Kalliéna was little frequented: in the reign of a former fovereign, flyled Sáragan, it had been an established port of commerce; but Sandánes<sup>13</sup>, his successor, admitted

<sup>&</sup>quot;These tablets, containing a grant of applied to a mart five stations, or 150 miles, land, have been mentioned before; and if the below Subkra. The fituation is not amiss, manner of writing Tagara be literal, the cubent whether it has any allusion to, the man dence is complete.

<sup>22</sup> Al Edriffi preferves the name of Sandan

none of the veffels that came from Egypt; and if any entered the harbour by accident, or fire's of weather, he immediately put a guard on board, and compelled them to go to Barugáza. This circumfance, Lieut. Wilford observes, favours strongly of an improper conduct in the traders, or might arise from the jealousy of a native power. The Romans shewed their influence, by erecting a temple to Augustus at Muziris; and if we suppose an attempt of this kind made at Kalliena, it bears a resemblance to the encroachment of Europeans on the natives, as well as the intrusions of the Arabs and Mahomedans. If we could have connected these governors, or rajahs, of the coast, with Mambarus, the fovereign of Ariakè, or fixed the residence of Mambarus at Tágara, Plíthana, or Hippocoora, our picture would be complete; but on these points the Periplūs is silent.

The ports or marts in succession "38 below Kalliena are

Semulia, Mandágora, Polaipatmai, Mellzéigara, Tóparon of the Buzantians, Turannas-boar, the Illands Séfekhémai, the Illand of the Aigidii, the Ifland of the Káinstai (in thefe places are the Pirates); and, after thefe. Leukê, or the White Ifland.

How this enumeration can have mifled those who have preceded me in the inquiry, I cannot say; but to my apprehension we have the Pirate Coast, between Bombay and Goa, as manifestly delineated as we could require, and to that district our attention must be confined. On the primary point, indeed, of a coast infested by pirates, there is little difference of opinion; Ptolemy and Pliny are both in harmony with the Periplus, and modern writers are generally agreed;

for pirates there have been in all ages, as they are here deferibed, till the Severndroog of Angria was taken by the English in 1765. But when we have obtained the coaft, why any one should travel out of it to find modern names correspondent to those of our author, is not eafily reconciled to the canons of geography. All these names are given as what our seamen would call country ports, frequented '24 only by the natives; and whether we can find reprefentatives for them or not, is of no great importance, if we can mark the limits of the provinces; to effect which, the modern divisions of the country may be of great affiftance. Orme " has observed, that the Mahratta language is spoken from Bardez, or Goa, to the Tapti; and these very limits I would assign to the Ariakè of the Periplûs. It is well known, that the division of provinces often furvives the revolutions of empire: the habits of the natives, and the boundaries of nature, are not always subject to the viciffitudes of conquest; and as the Tapti was the probable limit between the government of Minnagar and that of Mambarus, on the north; fo on the fouth, there is a natural boundary between Goa and Canara; where we are also to look for the termination of Ariakè, and the commencement of the Limurikè of the Periolus.

For the fituation of the few correspondent places, which I shall propose for the consideration of the reader, if the proofs should not amount to conviction, I shall at least do no violence to my author, or his text. I leave every thing free for discussion, as I find it; and even if my deductions should be erroneous, they will affect my own

<sup>&</sup>lt;sup>24</sup> Merb δί Καλλίνου δάλα Ιμτίμε τουκά. meaning, illustrated by and δι τότυς, which Rendered by Hudion, Post Callienam alia immediately follows; and alio by τουκά πλόκο. I unat emporia serancula, quibus regiona incolo P. 34. tantum utuntur; and I conclude it is the true
<sup>26</sup> Histor. Fragm. p. 57.

arrangement only, and millead no one who is disposed to prosecute farther inquiries on the subject.

D'Anville has transferred the four first names of the catalogue from Ariake to Barugáza, or Guzerat; knowingly and defignedly "rejecting the order of the journal, and placing Semulla at Sumnaut Pagoda, Mandagora at Mangherour, Palaipatmai at Patan, and Byzantian at Bifantagan; now, reckoning only from Bombay, this is a displacement of an hundred and fifty miles; while Fra Paolino, who corrects d'Anville, and contemns all writers who have not been in India, carries Mandagora to Mangalor in Canara, and Palaipatmai to Baleapatna near Tellicheri, and Kalliena to Calanapuri "near Mangalor. There is only feven hundred miles difference in the disposal of these names respectively; and a work which can admit of this latitude of interpretation, is either not worthy of a comment, or the different commentators must have preferred their own systems to all the evidence of their author.

To a common inquirer, the language of the Periplûs is perfectly conflitent; and if a refemblance of names has milled men of luperior information, it ought to fet others more especially on their guard to follow the arrangement of the work which they have undertaken to explain, and not to erect systems of their own, which can be supported only by a perversion of the text.

The Pirate Coast was not formerly, and is not now, so totally inhospitable as to exclude all intercourse: the Portuguese had settle-

is only one question to propose: Does not Periplus?

<sup>&</sup>lt;sup>16</sup> Il ne faut point avoir égard à ce qu'on Paolind allow Aigidii to be the Angedives? lie nysite comme par forme de transition park p. 101; and if he does, did he ever aik him. Antiq de l'Inde, p. 101.
6. Antiq de l'Inde, p. 101.
10. Upon the whole of this there to the north, or the fouth, of Aigidii, in the

ments at Daman and Baffeen, north of Bombay, as well as at Choul and Dabul, to the fouth; and it is a conjecture highly probable, that the Zizêrus of Pliny, and the Meli-Zeigara of the Periplûs, were at "Siddee-Zyghur", about an hundred and forty miles fouth of Bombay. Pliny 140 informs us, that the fleet which left Egypt early "" in July reached Okelis in thirty days; and then employed forty more, in croffing the ocean with the monfoon to the shores of India. The point where they left the coast of Arabia, was Svágros. or Fartaque; and the port they directed their course to, was Zizêrus. This had been the usual track, but was not a safe one, because of the pirates which infested the coast, and which made it necessary for the ships not to fail without a body of archers on board; for this reason they had been latterly obliged to change their direction to Muziris, though it was a more inconvenient place to receive their lading, and still not fafe from the attempts of the pirates in the neighbourhood. In the first instance, the pirates were on the coast;

nº Major Renoell has a Secantrygue below Coa şi tis writtes Sudafi-gue in the Oriental Navigator, p. 220. It is the fort of Carwar, and totally difficit from Siddes-Cyghur near Rajapors, deferibed in the Oriental Navigator, p. 215. This fort of Rennell's is tituated on a high point of land, and being remarkably width, becomes very configueous at fea. If the point of land had been faid to be white intended of the fort, I floudid base cofficulated that I had found the Lenkè, or White I fland, of the Periolia.

<sup>190</sup> Zyghur probably takes the addition of Siddee from the Siddees, a mixed breed of Abyfiniaus, Natives, and Caffres, ellabilified in Vinapoor, and mafters of a fleet upon the coaft, employed by Aurungzebe againft Scrages. Orme fays, they were a bold, ferocious ruce, and excelled all the navigators of claim. Hith. Fragments, p. 81. But Cape Siddee is likewise written Cape Zeyd, and Cape Z. Zygher, however, may be a place of modern date; I can find no other proof of its natiquity all naw hat is here given, and therefore propose the whole with great lefarative, pp. 2, 9, and Jughur, 1 what is Zy? or just of the proposed of the proposed of the suther. Gur, or gluss, is a fort; what is Zy?

or jan f or Zeid f

<sup>&</sup>lt;sup>141</sup> Ante ortum canis. Pliny.—Salmafius fays, the Romans reckoned the 19th of July as the rifing of the Dog Star. 1188.

in the fecond, in the neighbourhood. This exactly agrees with the Periplûs, which places Muzíris, not in Aríakè, but Limúrikė; and when we come to Muzíris, we shall find a farther correspondence that appears conclusive.

I wish to build no more on this conjecture than it will bear; but as I have found the utter impossibility of assigning positions to the places named in the Periplûs, and pretend to nothing more than prescribing limits to the province, even a conjecture of probability is worth fomething on a barren subject; and to another, which must follow it. I attach no greater importance.

Ptolemy has the Semulla, Balepatna, Byzantium, Mandágora, and Melizigêris 148, of the Periplûs, all upon the Pirate Coast; and on that coast, therefore, they undoubtedly existed, and not in Guzerat, where D'Anville has placed them, or in Malabar, whither they are carried by Paolino. That good Carmelite informs us, that Balepatna '4' fignifies a great city; it is no great force, therefore, put upon this interpretation, to make it the great city, the capital, or the refidence of a fovereign. And on this coast we have two Rajapoors, meaning, literally, the City of the Rajah. The most northerly of thefe, called Dunda Rajapoor, does not difagree with the Balepatna of Ptolemy. The diffortion of his maps, however, does not allow us to fpeak with precision on the subject; but if his Semulla be St. John's Point (which it is more like than any thing elfe), his Bale-

<sup>44</sup> Melizigeris, in Ptolemy, is an ifland, the ordinary in their misplacement on the coaft Meli-zeigera of the Periplus on the continent, of India. His Ægidium is carried down to and the Zizêris or Zizêrus of Pliny is a river Geylon. and a port. The islands of Ptolemy are in

So Belia-puttun, great pullun, town or fuch diforder on the coast of Gadrosia, and in city. Moor's Narrative of Little's Detachthe Red Sed, that there is nothing extra- ment, p. 497.

patna lies fomewhat short of two degrees lower down than his Semulla, and Dunda Rajapoor lies nearly at the fame distance from St. John's. If I gain nothing by advancing these conjectures, I at least do no prejudice to my author; for his Palai-patmai is subsequent to Kalliena, and his arrangement is not difordered by the present supposition.

But where there is so little certainty attainable, it will be some pleasure to rest at last upon a point that presents us something like truth. This, I am perfuaded, I have found in the islands that terminate Ariakè-the Concam of the moderns, the Kemkem of the Arabian geographers, and the Pirate Coast of all. I assume, then, the Sefekréienai of the Periplûs for the Burnt Islands, or Vingorla Rocks of the Charts; and the two islands of the Aigidii and Kainîtai. for Goa and Murmagon. Kainîtai is faid to lie close to the Cherionese 144; and one only Chersonese I find on the whole coast, which is Salcet, furrounded almost by the Sound of Goa, and the River Nerengal, and so conspicuous, that it may be considered as a certain proof of a polition not to be relifted. It is true that the Angedives are not forty miles from Goa; and the refemblance of Aigidii to Angedives, has induced a general belief that they are the fame; but the mention of two islands distinctly, and the vicinity of the Cherfonese 45, preponderate against all similarity of names; and the boundary of the two provinces, which immediately enfues, added to the previous circumstances, makes the evidence complete.

ιι Κατά την λυγέμενο Χερσένησαν.

fonese, but a promontory only. Should I be The appearance of a Cherioncie is not militaken, it is an error only of forty miles fo manifest in Rennell's Map, as in that of moderate enough in comparison of feven hun-Orme; but the point off which the Angedives dred. lie, cannot in any fense be deemed a Cher-

The Burnt 146 Islands, or Vingoria 147 Rocks, are a cluster not 148 very well known, till lately, in lat. 15° 52' 30". They lie fix or feven miles off shore, on a tract inhabited by a piratical tribe called Mulwaans, and are reckoned twenty "49 in number, seven of which are fmall iflets, while many of the others are barely vifible at high water; and there is a good channel between them and the main. The bare mention of fuch a group in the plural, with their relative fituation in regard to the Islands of the Aigidii and the Kainîtai, feems to qualify them for the representatives of the Burnt Islands; while the Pirates, in their vicinity, adds to the refemblance. Their distance from Goa is little more than thirty miles, and no other Island intervenes.

It is only the two iffands of the Aigidii and the Kainîtai that I assign to Goa; that is, Aigidii se to Goa, and Kainîtai to Mur-

146 The text is . . . . Topasso; Cong. Elva Envenotions devolution more, and a two Arreline, and a νών Καινικτών κατά την λεγομένην Χερσύνησαν, καθ' δς τόπες μου Παρατός. Και μετά πάρτης Λαραί γίσος.

It feems as manifelt here that it was 'Arrelian, and i The Kaussin, are joined, as that Asset is diffinguished separately by more recorns. D'Anville interprets 'Avydius bircorum, and not without probability; for goats were placed on uninhabited iflands by ancient as well as modern navigators; but I have not found the diminutive Assistor from alf. Dive, an island, is written Aren by Cofmas, and Apple doc, or Angalian, would be literally Goat Island.

147 Selekréienai, as I understand from Mr. Hamilton, fignifies black rabbits. The caurice fhewn by feamen in the names they affign to places, may excuse the introduction of the term. Whether the iflets themselves lie crouching like these animals, or whether rabbits have been deposited here like goats on other uninhabited spots, for the use of navi- Chersonese by no ancient author.

gators, I have no means of afcertaining : but as trivial a circumstance as this may, some time or other, lead to the discovery of truth. The natives of the coaft, no doubt, have a name for them: the title we give them is derived only from their vicinity to Vingoria, on

the continent

Rennell's Memoir, p. 31. 149 In the Oriental Navigator, p. 217. But there are feven principal rocks, or iffers, in C. Huddart's Chart, by Mr. Dalrymple. Thereare also plans of Vingorla and Sinderdroog, the relidence of the Mulwans or pirates of Melundy, among Mr. Dalrymple's diafts of places on the coaft of Malabar.

150 Aigidii, or Aigidia, comes fo near Angedive, that it is affumed by almost every writer on the fubject; and if it had preceded the Cherionele, inflead of following it, would have been conclusive. But the point off which the Ange-dive lies, would, I think, be called a magon; for Leukè, or the White Island, is separated from them by the text, and I have little hesitation in carrying it to Angedive. This disposition would account for all the islands upon this part of the coast, and place them in a relative situation perfectly consistent with the Journal. Kainitai cannot be questioned, if its vicinity to the Chersonese be considered; but the assumption of Leukè for the Angedive I would leave to the determination of any Navigator acquainted with the coast, who could ascertain whether it has any appearance of whiteness "to distinguish it from other Islands.

The Angedives fignify five islands; and Ptolemy has a Heptanesia, or group of seven islands, intended to represent this cluster, but so misplaced, as not to admit of any conclusion from it. One of these only is inhabited and fortified "by the Portuguese, who have a garrison here composed of malefactors exiled from Goa; the others, whether more or less than the numbers which give it different names, are only islets or rocks. The passage between the principal island and the main is clear; and this affords it a prominence, which may have entitled it to the notice of the Periplus.

In the Sound of Goa, there is one principal island on which the city itself stands, with others fo small, that they are little noticed: all which had afforded a place of refuge for such Mahomedans as had been driven from the Hindoo ports or cities on the continent, before the arrival of the Portuguele. Here the Mahomedans of the peninsula collected, who intended to embark for Judda, and perform their pilgrimage to Mecca. This alone was sufficient to make it a

is two diffaut to enter into any arrangement long, but not so much broad.

<sup>&</sup>quot;I have mgfelf found no white iffand with the part of the coalt where we now are, nearer than the Sacrifice Rork near Calicut, Capt. H. Cornwall's Reinarks, p. 26. mention which is 270 miles from C. Ramas. That rock is white with the must of birds, but it "Doriental Navigator, p. 221. It is a mile

port of importance; and the more fo, as we may conclude that the Hindoos had no influence and no share in the government; for, the Mahomedans had established themselves here, as the fugitives on the coast of the Hadriatick had done on the islands which now compose the city of Venice; and they feem, like them, to have formed a community, which was diffinguished by the name of Tricurii, or the Thirty Villages. The Portuguefe, from their fuff. arrival, had conceived a defign of occupying this polition: they first built a fort '55 on Angedive, and in 1010 Goa itself was taken by Albuquerque; it was recovered again by the Mahomedans the fame year, and finally retaken by Albuquerque in 1511. Under his auspices, it became the head and centre of all the Portuguese settlements in India; and is still in their possession, after a period of three hundred years.

D'Anville is disposed to place Goa at Nelkunda; that is, at the fouthern, instead of the northern boundary of Limurike; but he is not fatisfied with his own supposition, and abandons it. He fixes. likewife, Aigidii at the Angedives; to which Paolino affents, without reflecting that there must be two islands together, connected with a group preceding and a fingle ifland following. These circumftances cannot accord with the fystem they have adopted; but are perfectly confiftent with the Periplûs, and the disposition I have affurned. I have no predilection to this arrangement, because it is my own; but I have tried the Journal by the best charts I have of the coaft, and can find no points, either to the north or to the fouth. which will correspond; and therefore conclude, that by this every thing is done for obtaining the truth that the text will admit,

<sup>35</sup> Almeyda, according to D'Anville (Antiq. de l'Inde, 110 ), laid the foundation of a fort. But

But the division of the provinces remains still to be considered; and the termination of Goncan is fixed by our charts at Cape Ramas. about two-and-twenty miles fouth of Goa; near which is Carwar, once an English factory in the territories of the Soonda Rajah : and the jurisdiction of this prince is said by Capt, Hamilton to extend from Cape Ramas, about fifteen leagues along the coast to Meerzee, or Meerzaw. This tract, including the Angedive and the cape off which it lies. I should wish to comprehend within the limits of the ancient Ariakè, and I think the modern boundaries favour the conclusion; for the kingdom of Canara does not commence but at the termination 154 of Soonda; and though I cannot afcertain that the coaft, north of Goa, called the Dekan, or fouth of it, called Soonda. are confidered as parts of Concan; yet it is very clear, that the limit of Soonda and Canara is at Meerzee. At Meerzee, therefore, I affume the boundary between Ariake and Limurike, guided by the Leuke of the Periplûs, as the last place mentioned in Ariake, and by Naoora, as the first place mentioned in Limurike. This affumption, if correct, will reconcile the politions on the whole coast, from Goa to Cape Comorin; and if erroneous, confines the error within the diffance between Murmagon and the Angedive; an error, at the utmost, of forty "" miles; moderate in comparison of the disagreements between d'Anville and Paolino; and caufing no diforder in the arrangement of the provinces, but fuch as may be remedied by the most transient reference to the map.

The province of Ariakè was under the government of Mambarus,

<sup>&</sup>quot;See De la Rochette's Map of Hindollan, Fragments, p. 73.

which agrees widt. Hamilton, and Hamilton are Rennell makes it fifty miles, De la Roremined fome time at Carwar. See vol. i.

250. Orne likewife fixes it at Mirzeou. Hift, ber.

and Limurikè, which we now enter upon, was fubject to Kepróbotas, comprehending the modern kingdom of Canara, and terminating on the fouth with the kingdom of Pandion, which answers to the Malabar of the present day. The ports of this province will be treated of in their regular order; but before we descend to particulars, let us survey these four divisions of the coast, as they stand in the Periptias, corresponding with the present distinctions of the provinces; let us add the possibility of affigning the respective limits in both instances, and then ask ourselves, whether this is not a more rational way of interpreting our author, than by searching for a resemblance of names, which has missed to great a geographer as d'Anville; and in which, if it were reasonable to indulge, many new similarities might be discovered, that have not yet occurred to any one that has profecuted the inquiry.

The province of Barugáza, answering to Guzerat, under the power of Minnágar, commencing at the Indus and terminating at the Tapti, is the first. The second is Ariake, subject to Mámbarus; a fovereign whom we might compare to Sevagi, or a Mahratta power of the present day; bordering north on Guzerat, and south on Guzerat and fouth on Guzerat are for the fame extent as the Pirate Coâss, and distinguished at this day as fixing the same boundary to the Mahratta language, as to the province, ancient and modern. Limúrike is the third, with its northern confine at Cape Ramas, and its southern previous to Nelkunda; corresponding with Canara, which commences at the same point "i, and has its southern limit at Decla. And lassly, the kingdom of Pandion as a fourth division, equivalent to Malabar Propers succeeded by Paralia and Comari, and terminating with the Pearl Fishery and Coylon. Let us, I say, contemplate

this general picture of the whole coast, from the Indus to the fourthern cape of the peninfula; a fpace comprehending fourteen hundred miles, through the whole of which the ancient divisions are found confistent with those of the present day; and we cannot, under all these circumstances, fail to acknowledge the information of our author, and the importance of the work he has left for our instruction.

After this comprehensive view, the contention which may arise about the appropriation of individual names to particular ports, towns, or stations, is a matter of very inferior consideration: my conjectures or affertions may be disputed as well as those of others, who have trod the same ground; but till the great outline which I have traced can be obliterated, the service rendered to the science must be acknowledged.

Many of the gentlemen now in India are possessed of minds illuminated by education, and stimulated with a desire of enlarging the bounds of science, or affisting the inquiries of literature: these, in their respective situations, must have acquired a local knowledge, which cannot be obtained by those who draw their information from written evidence alone. To such men as these I have made a constant appeal, and submit the deductions I have traced to their correction; particular errors there may be, but by the general division of the provinces, I leave a guide to all that may be disposed to further these inquiries, and a rule for rectifying every thing in which I may have been mistaken. Still the investigation should be made, not by those, like Fra Paolino, who drew every thing to Malabar; because be had resided thirteen years in the province, but by men of enlarged mind and general information, qualified, like Capt. Wilford, with classical learning, and a knowledge of the native lan-

guage; enabled to direct their view to ages past as well as prefent; and policified of comprehensive faculties, which can embrace the general state of India, as well as the particular province in which they happen to have been employed. From men of this stamp I shall experience every indulgence; and if they should acknowledge that light has been thrown upon one of the most objects of inquiry left for our discussion by the ancients, I shall rest fatisfied with the result of my labours.

## IN. LIMURIKE.

How d'Anville could be perfuaded that this province was the reprefentative of Concan, is inexplicable; for Pliny, whom he chiefly follows, fays expressly, that Muziris was not on the Firate Coaft, but in its neighbourhood only; and the Firate Coaft is as clearly defined by all our ancient authorities, as by the modern accounts. Cape Ramas, as its northern boundary, and Nelkunda, in the territory of Pandion, as its fouthern limit, mark the confines fo precifely confiftent with Canara, that we cannot be mildaken. These likewise are the limits of the language is at the present day, which is a distinct dialect from that of Malabar on the fouth, or the Mahratta language on the north; and this is a characteristic less sluctuating than any division of the country that conquest might produce.

The aucient kingdom of Canara embraced a large part of the penintula, the capital of which was Bejapoor \*\*\*; but the modern

<sup>&</sup>quot; La lingua Canara, che curre nel reguo of the dialecta hare no v, and others no b; Canara dal moute d'Illy fino a Goa. Paolino, j and 2 are l'hewife perpetually interchanged or confounded.

<sup>16</sup> Commonly written Viziapour. Several

diffrict of that name was chiefly on the coalt, with its capital above the Ghauts. It was an independent flate or kingdom, till it was reduced by Hyder Ali in 1765; and it was at that time governed by a queen ", who had driven out the rajab, a child of nine years old, in favour of her brother. Under pretence of affilling the deprived rajah, Hyder entered the country, laid fiege to Bednoor and took it, and, in a very fhort time after, fent the queen with her brother, and the young rajah, into confinement in one of his hill forts near Bangaloor. Bednoor, the capital, is rendered famous by the defeat and death of the unfortunate General Matthews in 1783; and was confidered by Tippoo Sultan as a fortress of sufficient ftrength to confide to it a very large portion of his treasures. The conquest of Canara gave Hyder and his fon a communication with the coast, and opened the way for farther incursions to the fouth, which were profecuted to the devastation of Calicut and Cochin, and directed against Travancoor, when they were fortunately checked by the affiftance of the English. Tippoo Sultan had likewise the ambition to become a maritime power: he built a frigate, and fitted out a fleet of the country veffels of war, with which he undertook an expedition to the Maldives, and added to his titles, that of Lord of the Thousand "55 Islands. Had he succeeded in his designs, he would have extended his dominions from Mylore to Cape Comorin, and extinguished the last remains of Hindoo government in the peninfula, except the Mahrattas.

This fhort recapitulation is not foreign to our fubject; for though we hear much in history of the mild and gentle spirit of the Hindoos,

<sup>&</sup>quot;It was regularly governed by a queen. "The natives flyle their fovereign, King C. Hamilton's Account of East Indies, vol. i. of 12,000 Illands. Harris, vol. i. 677.

they were as much enamoured of conquest as the Mahomedans; and in the age of the Periplus, a king of Madura, (the fovereign of 230 Pandi-Mandala, the Pandion of the ancients.) had extended his power from the eaftern to the weftern fide of the peninfula, and was a mafter of Malabar when the fleets from Egypt first visited the coast. The king " of Limurike, and the king of the country fouth of that province, that is Pandion, are faid both to have their refidence inland by our author; and Pliny adds, that Pandion lived far inland, at the city of Modúta, which Ptolemy calls Modóora, the metropolis of Pandion. The conjecture, perhaps, will not be admitted; but it feems as if the power of Pandion had been superfeded in Malabar, between the age of the Periplus and Ptolemy; for Ptolemy reckons Aii next to Limurike on the fouth, and takes no notice of Pandion till he is past Cape Comorin, and comes actually to Madura, on the callen fide of the peninfula. Not that his cast and west are on the two faces of the angle, for they are on a line; but he is relatively right, though effentially mistaken.

In the limits of Limurike, Ptolemy is nearly in correspondence with our author; for he commences with Tundis, omitting Naoora. and finithes with Bécare, which is close to Nelkunda, and Nelkunda in both is the first port of Malabar: Ptolemy, indeed, preserves many names more in than the Periplus; for he feems, upon all occasions, to infert every name he could collect; and the merchant

<sup>&</sup>quot; The natives, I am informed, fill diffin- prefeat. C. Hamilton throughout confiders guilly themselves by the name of Pandi or Pandoo.

<sup>&</sup>quot; The king of Canara might live above the Ghants, as well as the queen that Hyderdefined by the capture of licdnore.

Many more appear in Cupt. Hamilton's exactly the difference between Ptolemy and account than we have occasion to notice at the Periplus-

Canara as the richest country of the coall; but plundered by the Mahrattas, Malahars, and Arabs., Such a work as the Oriental Navigator must notice every place; a merchant, only those where he traded. This is

foccifics

specifies those only that were frequented for the purposes of commerce. He has only three in this province—Naoora, Tundis, and Mooziris; all distinctly marked as subject to Keprobotas, and in a different district from Neikunda, which was in the kingdom of Pandion.

It is remarkable, that not one of these three places is accompanied with any local circumstances sufficient to determine their position; but Mooziris is sive himself shad south of Tundis, and Nelkunda at the same distance south from Mooziris. If therefore we could fix Nelkunda, though in a different province "s, we ought to measure back these twice sive hundred stadia, as the only means of direction that we posses."

The following arrangement, therefore, I offer, with all the diffidence that the obscurity of the Journal demands: I have perfunded myself that it is correct; but I should not be surprized if myselductions should appear inconclusive to others. I have followed the only clew I could discover; and if any one, who has paid attention to the subject, should find better ground to stand on, I shall readily relinquish my own, and yield to superior information.

For the polition of Nelkunda, I am obliged to Major Rennell, who is the first geographer, as far as I have learnt, who has fixed it at Nelisuram. That he is correct in this, I am persuaded, admits not of presumptive proof only, but demonstration:

For we may first observe, that Nelisuram is not only a mart itself, but gives name to a district. This district is not in Canara, but

Nelliceram is in a different province, for p. 289, who makes Decully, or Dekla, the the boundary well is at Dekla. De la Ro-limit. eliette.—See alio Capt. Hamilton, vol. i.

Malabar: the frontier of Malabar, the boundary wall "s which runs from the fea to the foot of the Ghauts, is at Dekly, or Dekully, immediately north of Nelifuram. This wall is fill vifible; and this in a peculiar manner makes it correspond with Nelkunda, which was the first port in the kingdom of Pandion.

2. A fecond proof may be derived from the name itfelf, which Orme writes Nellea-feram. Nella, according to Paolino "", fignifies rice, and Ceram a country; and if Nella-ceram be the country "s" of Nella, Nel-kunda muft be the fort of Nella, refembling Gol-conda, Inna-conda, or ""Conda-poor, on this identical coaft of Canara.

3. But the laft and best testimony is that of Major Rennell himfolf "", who mentions "a large river, named Cangercora, whole "courte is front the N. E. and which falls in about four miles to "the north of Mount Dilla; previous to which its course is parallel to the sea-coast for about cleven miles ", being separated only " by a spit of land. The forts of Nelistram, Ramdilly, and Mattely loy, are situated on this river, which is joined by several others "that descend from the Ghaut mountains, which in this part ap- "proach within twenty-two miles of the coast. I cannot help con-

<sup>&</sup>quot;S Batenshi het stern Opens and Basecher."

"S Batenshi het stern Opens and Basecher."

"S Batenshi het stern Opens and Basecher.

"S Batenshi het stern Opens and Basecher.

has the fame meaning. Bate or Pate rice-

Colôu country. Voffins ad Mel. lib. lii. 7.

"I have been treated with feverity by the
Orientalilis for encroaching on their province,
but in India, every name of a place is figuificant; and perhaps in every other country,
if we could trace the language which first
affigned them their refpective titles. In this

inflance, however, the ctymology is not mine, but deduced from an Oriental Grammarian, and I am only accountable for the deduction. I ought to add, that, according to his mode of interpretation, Counda-poor is identically Cafileton.

Memoir, p. 28.

\*\*\* Capt. Hamilton calls it a fine, deep ri-

capt. Framinon cans it a mag deep never, which keeps its courfe along flore eight leagues, at a bow-flot diflance. It diffen-bogues itself by the foot of Mount Delly, over rocks and fands, in a channel half a league broad. Vol. i. p. 250.

" fidering this Nelifuram, which is fituated twelve miles up the

" river, as the place meant by Nelcynda or Melcynda, by Pliny, and " Ptolemy-a place vifited by the Egyptian and Roman thips,"

Let us then observe, that the Nelkunda of the Periplûs lies actually the fame twelve miles up the river; and after this afk, whether all these circumstances can be accidental? for if the correspondence is evident, it is but reasonable to assume this proof as a demonstration.

It is with the most anxious folicitude that I have concentrated all these peculiarities to a point; because I shall want all the authority of so able a geographer, to support the conclusion I shall draw from his premifes; and though he supplies me with a basis, I am not certain that he will be pleafed with the fuperstructure I shall raise on his foundation; for, grant that Nelkunda is Neli-ceram (which from every kind of evidence I am perfuaded that it is), and it will immediately follow, that Onoor 169, Barceloor, and Mangaloor, are the

## NAOORA, TUNDIS, AND MOOZÍRIS, OF THE PERIPLÚS.

These are the only places mentioned in Limurike; they are the principal places of Canara to this day. Naoora is the first port of Limúrikè, as Onoor is of Canara; and Mooziris " fo precifely the latt.

" The English generally write and prononnce Onore, Mangalore, &c. ; but Paolino fays, ur figuifies borge, a town, and the Italian ur is the English our.

[Mangaloor] was, in the fixth century, one of the principal ports for the exportation of pepper. The mention of this article is an ac-

antiquity of the name, as far back as the fixth century, is Hill more in our favour. See Cofmas in Therenot, p. 3. & Nova Collectio Patrum, in fine. Mangaloor is proponneed Colmas informs us, that Mangaruth Mungloor by the natives, according to Capt-Moor, Narrative, p. 471. A and u are perpetually interchanged in Perfic and Arabic. Paolino informs us, that Mangul-ur fignifies quintion of evidence; but the afcertaining the the Town of Felicity, and Mangula-puri, as it laft, that we have been obliged to encroach upon the succeeding province before we could discover it. But the discovery will be now complete; for the Periplus places Moozíris fifty miles north of Nelkunda, Tundis fifty miles north of Moozíris, and, if we affume a third fifty north to Naoora, we have the whole three ports as precifely as we can open the compaffes. I request the reader to refer this inquiry to the maps of Rennell, de la Rochette, d'Anville, or any other rather than my own, to remove all furnicion of accommodation, and to affure himfelf of the certainty, not upon my affertion, but his own conviction. It is true that I am directed to Onoor, in some degree, by its similarity in found to Naoora, but much more strongly by considering that Naoora is the first port in Limurikè, as Capt, Hamilton writes that "Onoar" is the north-" ernmost port of Canara." And if these three ports are established by a reference to Nelkunda, fome credit is due to a difcuffion which afcertains the polition of MOOZIRIS ": a point on which all are at a lofs, and no two geographers " fully agreed.

There is a river at each of these ports, and in them the whole trade of the country has in all ages been carried on. The former wealth of the province is fill evident, from the remains of tanks,

infunctiones called the Giry of Philipper changed it to Janual shad, the Almb of Elgames and it between whites were to adopt the hall change, khangdoor neight he hewafter as difficult to difference in Janual shad, as it has hitherto been in Micozeins.

19 Vol. 1, p. 245.

The relative importance of Mangaloor, in modern times, qualifies it for Monziris show any other place in Casara. "Mangalore is "the greated mart for trade in all the Casara"

<sup>&</sup>quot; dominions: it has the conveniency of a ri« ver, produced by three that come into it by
" different ways, from the fouth, the end, and
"the north... those three rivers join about
"a mile from the fea, and at Mangulore
" diffembague at one mouth." Capt. IIa.
milton, vol. 5, p. 82.

<sup>&</sup>lt;sup>17</sup> Mooziris is fixed at Mirzeou by Rennell, at Vizindroog by d'Anville, at Calient by Hardonin and Mercator, and left undetermined by Robertfon and Paolino.

pagodas, and public buildings, ftill exifting. Of Naoora ", indeed, no particulars are mentioned except its name; but Tundis "is faid to be a village in the kingdom of Kepróbotas; Moozíris was under the fame fovereign; and here, it is added, that there was a great refort of the native vessels from Ariakè or Concan, as well as of the Greek fleets from Egypt. Another particular recorded is [that the coast was so near a right line that whether you measured the diftance between Tundis and Mooziris from river to river, or from the paffage by fea, the distance was equal. The same circumstance is repeated in regard to the distance from Moozíris to Nelkunda: it is five hundred stadia, says our author, or fifty miles, whether you measure by land or sea, or by the space between the two rivers.

Pliny "5 does not mention a river at Moozíris, but observes, that it was no defirable place of trade, not only on account of the pirates in the neighbourhood, but because the ships rode at a distance from the shore in the open sea, and boats were employed for the convevance of their lading, both on the delivery and the reception. The merchants had therefore tried a more convenient port, called Necanydon, where they obtained pepper from a diffrict called Cot-

<sup>&</sup>quot; The text flands thus: Elen Násem nal Túrdis và meira lurégea vis

Αιμυμέν, και μετά ταύτας Μάζιμς.... βκαιλείας d' leis a mis Tuidic Korroscora . . . . n di Mullione βασιλείας μέν της αυτής . . . . κείται δέ πορά ποτκμὸν, ἀπέχριτα ἀπό μὸν Τύτδιας, διὰ τῶ ποταμῶ, καὶ And Industry, public, restauration, and it of frerapid] war durid linors.

Where I infert worsus, Salmafius reads quwhen; and he has placed Tundis at the mouth of the river of Mooziris; but where can we expression is, gentis Necanydon, the country find a river navigable for fifty miles on this of the Necanides; but the mention of Becare coast? which must be the case if Tundis is with it proves it to be Nelkunda.

the road, and Mooziris the mart, fifty miles up the firenm. Plin. Exer. p. 1185. Mooziris may cafily lie two miles from the river. This measurement by the rivers induces Paolino to carry thefe three ports to the inlets between Calicut and Cochin. This fuppofition has fome weight.

<sup>&</sup>quot; D'Anville fixes Tundis at Dunda-Rajapoor in Concan.

<sup>&</sup>quot; The text of Pliny is very corrupt. The

tona. This is the pepper of Cottonara mentioned in the Periplus, and affigned by every writer to the province of Canara. There is, upon the whole, no effential difference in the two accounts, except the mention of pirates by Pliny, not noticed in the Journal; but unlefs Hydras could be diffeovered, we cannot afectain their polition: it is fupposed to be the Nitria of Ptolemy, the last place upon his Pirate Coast; and though that is not near Mangaloor, doubtless the pirates roved on the coast of Canara in former ages, as they do now, and pirates there have been at d'illi and the Angedive, as well as in Concar.

Moozíris is written Modíris, Moodíris, Moondíris, Zmiris, and Zymíris, by different authors, which might lead fome inquirer, on the fpot, to farther discovery. Both the Periplûs and Pliny certainly consider it as an inferior port to Nelkunda; for no account of the imports or exports is given here, but at Nelkunda a copious catalogue. That Moozíris continued a place of refort in later times, we may conclude from the Peutingerian Tables, which place there a temple of Augustus, that is, of the emperor of Rome; for at the date of the tables, in the time of Theodosius, every emperor was Augustus; and that the Greeks or Romans should have a temple here, is no more extraordinary than that the Christians should have churches in Travancoor, or that the Arabs should have established their superstition in Ceylon, which Pliny affures us was true.

Dodwell has built fome arguments on this circumstance, and on the names of the kings, which are the same in Ptolemy, Pliny, and the Periplûs; in order to bring down the date of this work to the time of Commodus and Verus. But Paolino affords a solution of this difficulty, which is perseally fatisfactory if his etymology be

true; for, he observes that Kepróbotas is written Celébothras and Cerobothrus; and he informs us that Ceram fignifies a country, region, or province, and botti, a governor; fo that Cerambotti is as manifestly the bead or fovereign of a province, as Ccram-perumal is king of the country, compounded of Cerain, a country, perum "" great, and aal perfonage, the great perfonage or fovereign of the kingdom. And as Ceramperumal was the founder of the kingdom of Malabar in the year 907 "16 of our era, there is much probability in this interpretation. If this etymology be admitted, it accounts for the name of Ceróbothrus in Limurikè, and that of Pandion in Malabar, not only in the different ages of Pliny, Ptolemy, and our author, but for as long a period as these divisions of the country continued undiffurbed; for Madura is still known in India as having the ancient title of Pandi Mándala, the kingdom of Pandi, or the Pandoos; and Pandavais the founder of the fovereignty, according to the Bramins. Pliny "therefore was mistaken, in assuming a general title for a proper name, as well as Ptolemy, and the author of the Periplûs.

## X. KINGDOM OF PANDÍON, OR MALABAR.

The native appellation of Malabar, we are informed by Paolino, is Kerula Ragiam, the Kingdom of Kerula, or Malayálam, the Mountain Country, derived from the Ghauts which bound it inland, and are vilible from a great diffance at fea. He adds, that Malan-

<sup>197</sup> Governor Duncan joins in this interpretation of Perumal. Af. Ref. vol. v. It is a curious and valuable paper.

<sup>&</sup>quot;Regnabat ibi, cum hac proderem, Celebothras. Plin. vi. 22.

gara is an Indian term corrupted into Malabar, and ought not to be deduced from the Arabic mala, a mountain, and bahr, a coall. It is not necessary to affent to this; because, when the Europeans first visited India, after the discovery of Gama, they derived their information from the Arabs, and confequently adopted their terms. At that time Calicut was the grand mart of the Oriental world; for here the trade from China and Malacca met the Arabs and Persians, who brought the produce of their own countries, as well as feveral articles which they procured from Europe: and though fome Arabian veffels penetrated to Malacca, or even China, and fome Chinese merchants, as it is said, extended 100 their voyage to Arabia. or to Keish and Shiraff, in the Gulph of Persia, the general point of intercourse was Calicut. When the Portugueze reached the eaftern coast of Africa, they were directed neither to Surat or Baroache, but to this city; and here they found the Arabs fettled in the country to powerful and numerous, as to obstruct their commerce, and traverse all the plans they had conceived. According to Barthema 181, there were not less than fifteen thousand of them fettled in this place only, befides numerous bodies of them on the coaft, in Ceylon, and in Coromaudel.

The influence they had in the country may be calculated, not only from this inflance, but from the revenue their commercial transactions produced; from their readiness to engage in all the fervices of war, policy, and government; from the spirit of adventure which appears in all their conduct; and above all, from the

<sup>»</sup> This opinion is founded on the report ber is also very clear from M. Polo, and their of Renaudot's Arabs, and will be considered employments in trade and war. See Lib. iii. hereafter.

Ceylon, and p. 54.

<sup>41</sup> The evidence for their power and num-

defire of extending their religion, as well as promoting their individual interest. The character under which Paolino describes them at the prefent hour, would probably have fuited them in every age:-" They "3 are a robust race, wearing their beards long and " their hair neglected; their complexion is dark, and their cloth-" ing confifts of nothing more than a fhirt and trowlers of cotton. " They are active and laborious; feldom appearing in the fireets " but in a body, and always armed. They fleep in tents or booths. " drefs their victuals in the open air, and work, during the night, " by the light of the moon. They affift one another in lading and " unlading their fhips, and they drink plentifully of toddy and " arrack. Upon receiving the leaft affront, the revenge is com-" mon to all." Their trade is still considerable " both at Cochin and Calicut; for not less than an hundred thips are employed in this trade, from Maskat, Moka, and Judda; and the commodities they purchase are of a better quality "4 than those obtained by the Europeans; because the Europeans, either by their power, or by contract, have bound the native government to furnish them with pepper and other articles at a regulated price.

The Chinese no longer frequented the port of Calicut when the Portugueze arrived in India: they had been ill-treated by the Zamorin, probably at the infligation of the Arabs, and for the same reason which excited their jealousy of the Europeans; and after a fuiltles attempt to revenge themselves, the Chinese ships came no longer to Malabar 18, but to Maliapatam only in Narsinga, on the coast of Coronandel.

ss Paolino, p. 84.
ss Paolino fays, they make two voyages in
a year; but I do not understand how this can

be, if they fail with the monfoon.

\*\* Cæfar Frederick in Hackluit, p. 223.

\*\* Barthema in Grynæus & Ramufio.

Now this trade with the countries farther to the eaft, and the interest which the Arabs had in the communication, is in full correspondence with the account of Pliny 188 in the first century, with Ptolemy in the fecond, with that of Cofmas in the fixth, with the Journal of the Arabs (published by Renaudot) in the ninth, with the experience of Marco Polo in the thirteenth, and with Nicola di Conti, fixty years previous to the arrival of the Portugueze in India.

It appears from Pliny, that the Arabs were fo numerous in Ceylon, as to have occupied the country below the Ghauts, like the modern Europeans; for their fuperstition had prevailed over that of the natives on the coast. He adds, that the Seres '87 were known in that island by means of the intercourse which commerce produced; and that the father of the raigh who came upon an embaffy to Claudius. had been in their country. (Something like this will appear hereafter in the Periplus.) And that a regular communication was oven between India and Malacca, there can be no doubt; because Ptolemy has fixed a port on the coast of Coromandel, from which the fleets failed which went to Chruse, or the Golden Chersonese. Here we may fix the limit of ancient geography; and whether we chuse to carry this trade to China, as fome have supposed from the name of Sinæ Thinæ, and Seres, or whether we fix it at the peninfula of Malacca, it is in effect the fame; for in that peninfula there have been, in different ages, the kingdoms of Tonguin, Cochin China, Pegu, Siam, and Ava: all partaking of Chinese manners, habits, and customs, and all furnishing, in some degree, the commodities we now pro-

<sup>154</sup> Lib. vi. cap. 22.

montes Emodos Seras quoque ab ipfis afnici. Pliny fays, moreover, Seras ab ipfis notos etiam commercio; meaning that the affici : as if the coast of the Seres were in Ceyloncle went by land into Tartany, and fo

fight. But Salmafius propofes reading, ultra to China.

cure in China. How the report of these countries, indeterminate as it was, reached Greece so early as the age of Eratofthenes", is a great problem, not easy to resolve; but that in later times some merchants had been induced, by interest or curiosity, either to attempt the voyage, or to fall on board the native ships, is highly probable. That all knowledge, however, beyond Ceylon was doubtful and obscure, is undeniable; for here the marvellous commences, which is constantly the attendant upon ignorance; and in whatever author it is found, we may be affured he has no certain information on which he can depend.

Within the limits of Ceylon all the general concerns of commerce were certainly confined, in the age when the Periplis was written; and whatever might be the extended attempts of the Arabs, very few of the veffels from Egypt ever reached that ifland. Nelkunda was the Calicut of their day; and flanding in the fame country, and affording the fame commodities, they procured here for the market of Alexandria the drugs, fpices, and other precious commodities, which have ever been in request throughout Europe.

At Nelkunda let us now paufe, written Melênda \*\*\* by Ptolemy, Melkunda by his commentators, Necanidon by Pliny, Neakyndon by Hardouin, and Nincilda in the Peutingerian \*\*\* Tables. It is faid

<sup>&</sup>lt;sup>35</sup> If Eratolikaes derived all his knowledge from Timolihenes, as Marcian informs us; Timolikaes, who was feat thow the coal of Africa by Philadelphus, mut have acquired his inforwation either there or from Arabia. But the Thinz are mentioned in Arillotle's Treatife de Mundo; and if thut work be really Arillotle's, in proves that the Golden Cherphysical Proves that the Golden Cher-

fonese had been heard of in the time of Alexander.

\*\*D'Anville has found an Ophir in Avalua-

<sup>164</sup> D'Anville has found an Ophir in Arabia, kunda, Tyndis, and Muziris, in the Tables,

connected with a Sefarch el Zinge on the conft of Africa, and a Sefarch el Hinde in Judia. Would not the fame speculation discover a Melinda on the coast of Africa, and a Melenda in Mahisar?

<sup>&</sup>lt;sup>20</sup> It is a very fingular circumflance, that the Peutingerian Tables flould have the fame manes as the Periplin ou this coaff, but reverfe them; for as they run Tundis, Muziris, Nelkunda, in the Journal, they flund Nelbunda Tundis and Muziris, in the Tables.

<sup>. . .</sup> 

to be the same as Becare, by Pliny, and near Baráke, or Ela-Baráke. by the Periplus. That is, Barake is a village at the mouth of the river, which, joined with Ela, cannot fail to remind us of Eli, as it is written by Marco Polo '91, the d'Illi, or d'Illa, of our modern charts. D'Illi is one of the most conspicuous points on the coast, and, as far as I can discover by the maps, the only remarkable mountain close to the shore. This I had supposed to be called Mount Purrhus in the Journal; but if Purrhus is to be interpreted as a Greek term, it fignifies the Ruddy Mountain 1913; and I have fince learnt, that d'Illi has not this appearance, but that there are heights both to the north and fouth, which still bear the title of Red Cliffs, and which will be noticed in their proper place. The mouth of the Nelisuram river, or Cangerecora, at Ramdilli, is placed by Rennell almost close to the mountain; and "Ram-d'Illi" again contains the name of Ela, and is manifestly the Ela-Barákè of the Journal.

At Barákè the veifels rode till their lading was brought down from Nelkunda. It feems by the text as if the navigation of the river were fafe, and that the ships went up to the city to deliver their cargo, and then came down to Barákè to receive their lading

with Blinka, a corrupt reading for the Elashi of Ptolemy, and Colchi Sindorum, for the Kolkhi of both. There is mention likewife of a temple of Augustus, or the Roman emperon, and a lake at Mussirs. The decimensiances, however erroscoulty flated, full trad to prove the continuance of this commerce, from the time of Claudius to Theodolius a fiscor of above three hundred years and a prolability that the Roman merchants had fettled a faftorr at Mussiria, as they would forerely

have built a temple there, without fome fort of relidence in the country.

It is written Eli, and d'Eli, in Bergeron's translation; Deli, in Ramusio.

<sup>39</sup> Tô Hugha "Ope; <sup>391</sup> Ram is a common adjunct, fignifying ; as, Ram-Rajah.

334 D'Illi is the orthography of Paolino; Dilla, of Rennell; Deli, Dehli, and Delee, are found in different charts; and Eli, in Marco Polo.

in return; if fo, it is a prefumption that they returned deeper laden. than they arrived, as most vessels from Europe do at the present day. But there is some confusion in the text, and one corruption "s at least: in modern "96 accounts, the river itself is described as large and deep, but obstructed at its mouth by shoals and fand-banks. The approach to this coast likewise is discoverable, as well as that of Guzerat, by the appearance of fnakes upon the furface of the fea. which are black, shorter than those before mentioned, more like ferpents '97 about the head, and with eyes of the colour of blood. This is a circumftance confirmed by Paolino, who lived thirteen years in the country, and who accounts for it by supposing that they are washed down by the rivers in the time of the rainy scason.

The port of Barákè, or Nelkunda, is much frequented on account of the pepper and betel which may be procured there in great quantities 158, The principal Imports are,

Χεήματα πλείζα. Great quantities of specie.

Χουσόλιθα.

Topazes. Ίματισμός ἀπλῶς Β΄ πολύς. A fmall affortment of plain Cloth, Rich cloths, of different colours?

Πολύμιτα. -Στίμη, Stibium for colouring the eyes.

Κοράλλιον, Coral.

"Υαλος 199 αργή. White glass,

Brofs. Xanzoc.

<sup>105</sup> Did di rès normais adjuara and diambag Tramatrie. It does no ppear what ought to be fubilituted for admara.

M In Capt. Hamilton; and it is remarkable that Marco Polo fays, the faips of Mangi (China) that came here, loaded in eight days, or earlier, if they could, on account of the danger of the anchorage. Lib. iii, c. 26.

<sup>197 &</sup>quot;Oding . . . Spanourushing rily netaligh. What is the diffinction between son and deduce? It feems here, crefted.

ισε Δεὰ τὸς όγκες καὶ τὸ πλέθος τὰ πεπέρεως καὶ τε μαλάθαθρε.

<sup>150</sup> Rendered by Hudson, Vitreum rude; but appil, white, is added to it, to diftinguish it from vitrum in general, which was blue.

Lead.

A fmali quantity of wine \*\*\*; but as profitable as at Barugáza.

Κασσίτερος, Μόλυζδος, -

Οίνος ε πολύς,

200 Elion di recurer core le Bassevalore. Hudion

261 Pepper, from the wealth it brings into

1 think yenomusos implies, the native

growth of the country : it may fignify only,

has omitted this. The meaning here given is

the country, in Sanferit is called, the Splendour

conjectural.

of Cities. Paolino, p. 356.

ip's do
ich ace, per
ity
lly
her
P

procurable there.

213 Naples of yamanad. There can be little

doubt of the corruption here; because, at

p. 36. the author himself writes Payaran

Naples, the fpikenard procured at the Ganges:

and there it is still procurable from Thibet,

according to Sir Wm. Jones and Dr. Rox-

burgh. Afiatick Refearches.

Αιθία διαφανής παντόια, - All forts of transparent or precious.

'Adduac. - - Diamonds.

Υάκινθος, - - - Jacinths. Amethysts.

Χιλώνη<sup>ται</sup> ήτε Χρυσονητιωτική καὶ. Tortoife-fhell, from the Golden-Παιβ ταὶς τήσεις Θημειορείνη Πίπαθα (or Maldives?); and anταὶς προκειμέτες αυτής τῆς on ther fort, which is taken in the Αμφιρικής - - illands which lie off the coaft of

- islands which lie off the coast of Limurike (the Lackdives).

The particulars of these cargoes fuggest some reflections of curiofity; for the bullion or specie employed in the purchase of the native commodities, has formed a subject of complaint in all ages, as if Europe were exhausted of the precious metals, and all the riches of the world absorbed by Oriental commerce: the fact is true, that this trade cannot be carried on without bullion; for all the revenues, of the country, now in the hands of the East India Company, are note sufficient to cover the investments annually made. Still Europe so is not exhausted, but increasing daily in wealth and power, compared with the other quarters of the world, and never can be, till the industry promoted by this commerce, and by commerce in general, shall be annihilated.

Tin is another of the articles enumerated; and if we find this produce of Britain conveyed to Malabar in the earlieft period that history can reach, we find the spices of Malabar in Britain, in an age when the course of the communication with India was probably as little known, as the existence of America.

The venerable

<sup>&</sup>quot;Selmatius suppoles Xaccommonae to refer "See Harris's Discourfes on the Each to Khrush the Golden Mand, or Chersonele, India Trade, vol. i.

Bade \*\*\*, who died in the year 735, was possessed of pepper, cinnamon, and frankincense. Did no one ever ask the question, how, in that age, these luxuries had been conveyed to Britain, or were treasured in a cell at Weirmouth?

But the particular most worthy of remark, is the mention of fine filks [ obona Engual]; for othonion is any web of a fine fabric, and as applied to cotton fignifies muslin; but its usage in this passage. joined with Sericon, plainly indicates the manufacture of the Seres. which is filk. It is mentioned only at this port, and particularly diftinguished as not being a native commodity, but brought hither from the countries farther 201 to the east. This is a sufficient proof that Nelkunda was in that age, what Calicut was in later timesthe centrical mart between the countries east and west of Cape-Comorin: and we want no other evidence to prove, that the intercourse between India and the countries beyond the Bay of Bengal. was open in that age, and probably many ages prior, as well as inthe time of Ptolemy. That the fleets which went to Chruse, or the Golden Cherfonese, would find the filks of China in that market, is readily admitted; but that the Seres were still farther east, is manifeft, from the man of Ptolemy, as well as from Pliny, who calls them the most eastern nation of the world. Now that the ancients always meant China Proper by the term Seres, however obscure their notions of it were, feems to admit of proof. Silk came into the Roman world usually by the route of Tartary, the Caspian, and the Euxine fea; and when Justinian procured the filk-worm, he procured it by this northern channel. This communication however,

<sup>\*\*</sup> Bedæ Opera, p. 793. Appendix, and began to reign in 872. p. 8e8. Alfred, who is faid to have fent \*\*\* Original is not form it and the notation is durch. Sightelm, billion of Shirbourne, to Malbar,

on the north, could not be opened with the nations of the Golden Cherfonese, with Ava, Pegu, or Siam, but is expressly marked as formed immediately with the Seres themselves. The point fixed for the meeting of the traders from the west with those of the Seres. was in Tartary, and farther to the 2018 north-cast than the sources of the Ganges; and this point, fix it where we please, is perfectly in correspondence with the Kiachta of our own days, where the commodities of the Chinese and Russian empires are exchanged. The jealoufy of the Seres in regard to ftrangers, remarked by Pliny "", is perfectly characteristic of the Chinesc in all ages; and whether the communication took place near the Chinese frontier, or in any place nearer to the west, it equally proves that there were Seres on the north, as well as the fouth; and that there was one communication opened by the intervention of Tartary, and another by fca. through the means of the nations in the Golden Cherfonese. We shall find some intimation of this commerce on the north (wild and fabulous as the account is) at the conclusion of the Periplus, and in the catalogue of articles now under confideration, the communication by fea is equally manifest. Whether this intercourse by fea was direct, or only by the intervention of the nations of the Cherionefe. is another question; but on this subject more will be faid in its proper place. It feems natural, however, to suppose, that there always was a Malacca, or fome port that reprefented it, where the trade from China met the merchants from India; as the commerce of India met the traders of Arabia and Perha at Calicut. or fome port on the coast of Malabar. In this state of things,

TO

Ptolemy, VIIth Table of Afia. nication by land; in the fecond, it is from Play mentions this twice; lib. vi. c. 17.
Play mentions this twice; lib. vi. c. 17.
Age 29. 2, 3. In the first, it is the communication of a native of Ccylon.

the Portuguese found the commerce of the Oriental world; and in a state very similar, it feems to have exsisted in the age of the Periplüs. This affords us a rational account of the introduction of silk "a into Europe, both by land and sea; and thus by tracing the commodities appropriate to particular nations, or climates, we obtain a clue to guide us through the intricacies of the obscurest ages.

One circumstance respecting the Malábathrum, which I have supposed to be the Betel, remains still to be considered: it is said to be brought here from the countries farther "" east, and not to be a native commodity. Pepper, and pearls, and ivory, and spikerard", are likewise said to "" be brought here, as well as stilk; all which contribute to prove this port to be the representative of Calicut in that day, and Pandion to have enjoyed all the revenues arising from the commerce of India and Europe. Could it then be proved that the hundred and twenty ships which Strabo saw "" at Berensk, actually reached India by a coasting voyage before the monstoon was discovered, we can see a reciprocity of interests, which might very easily induce Pandion to send an embassy to Augustus. Another Indian embassy is faid, by Strabo, to have been sent to the same emperor by Porus; and this Porus is supposed, in Indian history, to be the sovereign of Agimere—the Rana, or principal of the Raj-

<sup>&</sup>lt;sup>20</sup> Silk was not a native commodity or masufacture of India in the 16th century; it full came from China. Casf. Frederick, Purchas, vol. iii p. 1708.

<sup>&</sup>quot;Ex row for rows. Again, I have no mention doubt but that the fense here given is the Pepper.

<sup>212</sup> The Arcka nut is mentioned as an export at Cananoor, the next port by Carl-

Frederick, p. 1707. Purchas, vol. iii.—a fruit the bignels of a nutmeg, which they eat with the leaf, called Betle. And lime of oyfterfhells, pepper, cardonoum, and ginger, are also mentioned. Within land is the Kingdom of

<sup>24</sup> Strabo, lib. xv. p. 686.

pout " rajahs. Now, were it possible to connect his interests with those of Guzerat, we might prove, that the trade carried on at Barugaiza and Nelkunda was of such importance, as to make an intercourse necessary between these two Indian potentates and the emperor of Rome. If an Indian Instory of these early times should ever be obtained that possessed a degree of consistence or probability, some light might be thrown on this subject; at present it is mere conjecture and speculation.

I cannot guit the contemplation of this catalogue, however, without adverting to the last article on the list, which is the tortoise-shell procured from the Golden Isles, and the isles that lie off the coast of Limurike. The first, if not the Maldives, are Khruse; but the latter are the Lackdives: both are still famous for producing the best tortoise-shell, and particularly the black fort are, the finest in the world, which is found only here, or at the Philippines, and obtains an higher price than any that is procured elfewhere. But if the Maldives are dubious, the Lackdives do actually lie off the coast of Canara or Limurike; for though the bulk of them is to the fouthward, the "17 northernmost of the group is nearly in the latitude of Mangaloor; and the market where the tortoife-shell was procured, was Nelkunda. This one circumftance might have convinced d'Anville, if he had attended to it, that Limurike must be Canara, and could not correspond with Concan; for there are no islands on that coast, where any quantity of tortoise-shell could be obtained, fufficient to be confidered as an article of general commerce.

<sup>&</sup>quot;Reanell's Mem. last ed. p. 230. "See Renaell's corrected Map, and d'Auif Harris, vol. i. p. 716. Purchas, vol. iii, ville's.
566.

This extent and value of the cargoes at Nelkunda, either carried out or brought home, is of greater amount than we have found at any other port, and more circumstantial than at any other except Barugaza. This appears correspondent to the course of the trade at prefent, but ftill more to the early commerce of the English, when their original factories were at Surat and Tellicheri. At Surat they obtained muslins, chintz, and cottons; and at Tellicheri, pepper and cardamums: for though the Portuguese multiplied their forts and fettlements, the different productions of the north and fouth, on this western coast of the peninsula, were obtainable with sufficient facility at these two points. In conformity with this system we find, that throughout the whole which the Periplûs mentions of India, we have a catalogue of the imports and exports only at the two ports of Barugaza and Nelkunda, and there feems to be a diffinction fixed between the articles appropriate to each. Fine muslins, and ordinary cottons, are the principal commodities of the first; tortoise-shell, pearls, precious stones, filks, and above all, pepper "18, feem to have been procurable only at the latter. This pepper is faid to be brought to this port from Cottonara, generally fupposed to be the province of Canara 119, in the neighbourhood of Nelkunda, and famous are to this hour for producing the best pepper " in the world, except that of Sumatra.

The

<sup>&</sup>lt;sup>10</sup> The long pepper mentioned at Barugáza is an ordinary and inferior spice, more hot and pungent, with lefs slavour.
<sup>10</sup> Eli, Deli, or d'Illi, was the port frequented by the Chincie for pepper in M.

Polo's time, Lib, iii. c. 26.

<sup>&</sup>lt;sup>130</sup> In the Sunda Rajah's country, adjoining to Canara, is the best pepper in India. Capt. Hamilton's Acc. of E. India, vol. iii. p. 269.

Al Edrilli mentions pepper as growing only in Colam-mell (an illand below Subara), on at Candaris, and Gerabtan. What Gerabtas is, I know not; but Candaris may mean the kingdom of Canara, p. 61.; because he says afterwards, it is near the mouth of a river in Maghae—Malahar, p. 67.; but it is not precife. Al Edrilli derives this from the Arabs of Reanadot, p. 9. p. f. 6. where it is written Kaucam-mali, and Kamkam; the fame as Kentekun.

The pre-eminence of these two ports will account for the little which is faid of the others by the author, and why he has left us so few characters by which we may diffinguish one from another, so as to assign them proper positions on the coast. They seem to have been little vifited for the purposes of commerce; and if they were touched at only from necessity, the flay there was short, and the observations transient; but the distinction of the provinces is clear, and if it has been found possible to give these from the testimony of our author, with fo much precision as to prevent future deception, we shall not hereafter see the same place assigned to Guzerat by one author, and to Malabar by another; one of whom must be in an error of seven hundred miles. In limiting the provinces, and marking a few of the principal marts, all has been done that could be expected by those who are acquainted with the work; and if conjecture has never been reforted to, but where proof was unattainable, blame ought not to attach, because the discussion of impossibilities has been declined. I have faid that it was dubious whether the author himfelf had ever been farther than Barugaza; but fo many corroborating circumftances have come out in tracing the account of Nelkunda, that I would now rather fix the limit of his voyage at this port. Farther than Cevlon he certainly was not; and whether the fleets from Egypt ever reached that island previous to the embaffy from the king of that country to Claudius, is highly problematical. Individuals possibly might have been there upon an adventure, but the amplifications of Pliny and Ptolemy manifeftly

Kenken, or Concens; and Kaucan-mall is it fill a port of Travancore, where pepper is herefore Concens of Mala-bar, adepting Ma-obtained. His Tyling this an island, is conlabar for the whole coast, as is fill in using. But if Al Edriffs has not copied from others, M. Polo mentions Coulam, or Covalam, with Cultam-mail is Coulam of Malabary and Coulam to fame pre-emisence. See infra. befoeak an ignorance of the truth in their age; and if the voyage was not regularly performed, the knowledge of individuals was either not reported, or not believed.

## XI. HIPPALUS AND THE MONSOON.

THERE is an additional reason for believing that the regular course of trade terminated at Nelkunda, which is, the introduction of the discovery of the monsoon by Hippalus at this place. And for this place I have referved the discussion of that subject, because, though I shall continue my inquiries as far as Ceylon, I am persuaded that the author of the Periplûs went no farther than this port.

The history of this I shall give as nearly as possible in the words of the author:

- "The whole navigation, fuch as it has been defcribed from " Aden and Kane I to the ports of India ], was performed formerly
- " in small vessels, by adhering to the shore, and following the in-
- " dentures of the coaft; but Hippalus was the pilot who first disco-
- " vered the direct course across the ocean, by observing the position
- " of the ports, and the general appearance "13 of the fea; for at the
- " feafon when the annual winds, peculiar to our climate "", fettle " in

3 I 2.

ou Arabia Felix.

<sup>113</sup> Evilua.

<sup>14 &#</sup>x27;AO' & xal τοπικός la τë nanavë Corsiras vir uard naijās rāv arag' ajats 'Ernorius, is rāj Island Heλάγει Διθόιοτος Φάινεται.

Some doubt will remain whether this paffage is accurately rendered; for the antecedent to at is not clear; and the term Drawe may be thought improperly applied to the Medi- in Egypt; and the fouth-westerly monsoon, terranean; but it feems used in opposition to in the Indian Ocean, is in its full vigour dur-

Πελάγω, and by being joined with the Etcfians

that blow [ mee' was ] in our country, all ambiguity is removed. I will not wouch for the Greek of our author, in the usage of 'Thesag. because I think his language frequently incorrect, or his text corrupt; but the general

fense of the passage is sufficiently clear. The Etelian winds blow during the fummer months.

- in the north, and blow for a continuance upon our coast from the Mediterranean; in the Indian Ocean the wind is conftantly
- to the fouth-west; and this wind has in those seas obtained the
- name of Hippalus, from the pilot who first attempted the passage
- " by means of it to the Eaft.
- " From the period of that discovery to the present time, vessels " bound to India take their departure, either from Kanê on the
- " Arabian, or from Cape Arômata [Gardefan] on the African fide,
- " From these points they stretch out into the open sea at once.
- " leaving all the windings of the gulphs and bays at a distance, and
- " make directly for their feveral destinations on the coast of India.
- " Those "s that are intended for Limurike waiting s fome time
- " before they fail; but those that are destined for Barugáza or
- " Scindi, feldom more than three days."

This account naturally excites a curiofity in the mind to inquire. how it should happen, that the Monsoons should have been noticed by Nearchus, and that from the time of his voyage, for three hun-

a refident at Alexandria, the Etefians 2000' main, represent the effect of them where wa live, and romans quesirus, the blowing of the winds which we locally experience. I render at a from the time or featon, common both to the Etenans and Monfoons; and I do not join φαίνται to προσυσμαζίσθαι, with Salmafius, though I suppose that a connecting particle is wanting. See Plin. Exercit. 1186. " Kal to have resembles who the defects in

the related defended for the few rates are described that προευρημένων κάλπες. The general fense of this passage is clear;

for birtos, and 14' biff, are used by this failing. author to express failing in the open sea; but

ing June, July, August, and September. If how to understand da ris states you is dubious. then we suppose the author to be a native, or -Hudson renders it, ex regione excells per terram externam fupradictos finus praetervehuntur; where per terram externam is quite as unintelligible as did the it of we yee, and ex regione excell certainly does not express the meaning of the author.

> THE XXXX COURSE, if it be not a corruption, has no fenfe in the lexicons which can apply to this possage. The meaning by the context is plain; but how to elicite it from this word, I know not. Hudion has very wifely omitted it.

A learned friend renders Tpsynklores, with their beads to the fea; ready to fail, but not

dred years, no one should have attempted a direct course, till Hippalus ventured to commit himself to the ocean. It has been sufficiently proved, that a communication was open between India and Arabia previous to the age of Alexander; and it is impossible to conceive, that those who lived either in India or Arabia, should not have observed the regular change of seasons and of winds, which recurred every year, and of which, if they were mariners, they could not fail to have taken advantage, every voyage they performed. It is likewise certain, that vessels frequenting either coast would accidentally be caught by either monfoon, and driven across the open fea to the opposite shore, if they happened to be a few days too early, or too late, in the feafon, for the voyage in which they were engaged. That this had happened, and that there was a direct passage by the monfoons in use between the opposite continents before the Greeks adopted it, has already been noticed from the Periplûs, and fully proved. But in almost all discoveries, the previous obstacle is minute, and the removal of it accidental: thus it is, we may suppose, that the few vessels which did find their way to India from the ports of Egypt by adhering to the coast, from the beginning, failed with the monfoon, both outward and homeward bound; but flill followed the track which had been pointed out by Nearchus; and it was necessary for an Hippalus to arise, before it should be known, that the winds were as regular and determinate in the open fea, as upon the coast. The Periplus affigus the merit of the discovery to the observation of Hippalus himself; but there is nothing unreasonable in supposing, that if he frequented these feas as a pilot or a merchant, he had met with Indian or Arabian traders, who made their voyages in a more compendious manner than the Greeks; and that he collected information from them, which he had both the prudence and courage to adopt. Columbus owed much to his own nautical experience and fortitude; but he was not without obligations to the Portuguese also, who had been resolving the great problems in the art of navigation, for almost a century previous to his expedition.

But the discovery of the monsoon once made, could never afterwards be neglected; and the use made of it by the fleets from Egypt is fully detailed, and much in the fame manner by Pliny and the Periplûs. The course of the trade from Alexandria to Berenikê, and the progress of the voyage from Bereníkè to Okélis and Kanè, have already been fusficiently described ar; but there are some farther circumfiances connected with this, which cannot be suppressed without prejudice to the object in view. For Okélis is mentioned by both authors 125 as the better port to remain at; which is evidently confiftent, because it is sheltered from the adverse and monstoon; and the passage of thirty days to Okelis, and forty to the coast of India, is a proportion to firlking, that it could be derived from no other fource but evidence of the most authentic nature. For the first distance is only about four hundred and eighty miles, and the fecond near nineteen hundred, and yet that there should be only ten days difference in the longer part of the voyage, is peculiarly appropriate to the two different feas in which the navigation was to be per-

<sup>217</sup> P. 70. et faq.

<sup>20</sup> Plin. lib. vi. c. 23.

<sup>&</sup>lt;sup>29</sup> The Immann finding Aden to lie inconvenient for the trade of the Red Sea, because of the fresh winds usually blowing at its mouth in both easterly and westerly monitoons.

made him remove the trade about 15 leagues within its mouth, to a fifting town called Mocha. Capt. Hamilton's Acc. of the E.

Indies, vol. i. p. 19. That is, it is fafer riding within the firmits than without.

formed. The veffels deftined for India left Berenike about the middle of July, or earlier, if they were to go farther than Barugaza. The passage down the gulph was tedious; for though the wind was favourable, the shoals, islands, and rocks, in their course, required caution, and compelled them to anchor every night; but when the firaits were passed, and a vessel was once within the influence of the monfoon, the had nothing to impede her course from Babel-mandeb to Guzerat; confequently, forty days alloited to her passage is neither disproportionate to her course down the Red Sea, nor too short 210 a space for performing a voyage of nineteen hundred miles to India, notwithstanding the same run at present seldom exceeds fifteen. It feems at first fight a contradiction, that vessels which were to have the longer voyage to Malabar, should remain longer at Okêlis than those which were destined only for Scindi or Guzerat; but this likewife depends upon a circumflance peculiar to the monfoon upon the coast of India, which appears never to have been noticed by those who have undertaken to comment on the Periplus.

It is fufficiently known, that the commencement and termination of the two different monfoons are subject to confiderable fluctuation; fo that though we fay these winds are alternate, fix months each way, we ought to fubftract one month from the beginning and ending of each, which are not only fluctuating, but tempertuous, If then we examine the fouth-westerly or summer monsoon as in this respect, and consider May as the month in which it commences,

230 Nineteen hundred miles in forty days, thirty days from Malkat; whence we may

the Arabs, in the ninth century, employed Navigator, p. 211.

gives rather more than forty-feven miles a day; conclude, they had not much improved upon but the day's fail of an ancient veffel was 500 the Greeks. See the Arabs of Remaudot,fladia, or fifty miles; and the course of a This run should properly be taken at Garany 9 hunor double : fo that they must in this defan. The whole of this is from the Oriental paffage have failed with great caution. But

it is not finally fettled till the beginning of June, a little earlier or later, according to the full or change of the moon ""; and fill it is to be observed, that during June and July "the weather is so bad, "that navigation is in some degree impracticable." In August it is more moderate, and in September the weather is still fairer; and though there may be an apprehension of storms, "you have often fair weather for several days together," which continues, though liable to the same interruptions, till the middle of October.

This is the peculiar circumstance appropriate to the navigation of the ancients; for if we suppose a vessel to leave Berenske on the 10th of July, and to arrive at Okèlis the 9th of August; after continuing there a week, ten days, or a fortuight, she will reach Muzíris or Nelkunda, at latest, on the 1st of October; that is, at the very time when she has reason to expect the best weather of the scalon.

There is another fingularity applicable to thofe veffels which are deflined for Scindi and Barugáza, and which flay only three days at Okélis or Cape Gardefan; this is, that the fouth-weft monfoon fets in "earlier to the northward of Surat," than on the coaft to the fouthward. Whether this circumftance is connected with their voyage, we have no data to determine; but if the monfoon commences here earlier, it is confequently fettled earlier than in Malabar.

After thus conducting our fleet to the shores of India, it remains next to consider their voyage homeward-bound. And here we are informed by Pliny "1", that they continued on the coast from the latter end of September, or beginning of October, to the early part

The first new moon in September is called St. Anthony's Moon, and confidered as the commencement of the N.E. monfoon. C. Hamilton, vol. i. p. 255.

of Tybi, or December. This allows two months, at leaft, for the disposal of their cargo, and taking in their lading in exchange. But the lateft time of leaving the coast is within the first fix days of Machiris; that is, before the ides of January, or the 13th of that month. Now it is very remarkable, that the original order for the fleets of Portugal was subject to the same regulation; for if they did not fail before the 8th "" of December, they were detained till the first week of the succeeding month. The reason for this, though not mentioned, is doubtless the change of the moon in both inflances, at which time there are usually some stronger gales; and in this we have one more evidence of the same operations of nature producing the same effects in all ages.

Pliny ftyles the fouth-weft monfoon, Favonius (which the Periplüs calls Libo-Notus), and the north-eaft, Vulturnus; about which there is much learned difquifition in Salmafius. But we are now too well acquainted with these seas, to have a doubt remaining on the winds that were intended; and we conclude, that as the same causes have operated in all ages, they blew two thousand years ago as they blow at the present day. Not that they are fixed to a single point of the compass, but that north-east and south-west are their general direction. It is added by Pliny, that upon reaching the Red Sea, they found a fouth or fouth-west wind, which conveyed them to Berenike, and enabled them to conclude their voyage in less than the compass of a year. This, likewise, is consistent with experience; for the winds in the Gulph of Arabia are almost confastly north and north-west, except for fifty days, when they are called the Gumsen "winds, and prevail from the middle of March;

<sup>23</sup> Confar Frederick in Parchas, iii. p. 1708. tember. who likewife mentions their arrival in Sep-

during that period coming regularly from the fouth. If therefore we fuppole a veffel to leave the coaft of India between the 8th and 13th of January, forty days employed upon her return would bring her to Kanè, Aden, or Gardefan, towards the end of February, At any of these ports she might wait, so as to be prepared to take advantage of the Gumsen wind in the middle of March; and when she was once within the straint, this wind would serve her for fifty days to convey her to Berenikè, to Myos Hormus, or even to Arsinoè, the representative of the modern Suez. Thus, by embracing the opportunities which the regular seasons in the different seas afford, the whole voyage outward and homeward-bound would be performed with a wind constantly in her favour.

The next point to be confidered is, the departure of this fleet from Okélis, Kanê, or Cape Arômata. The two laft are more particularly intimated by the Periplûs; and Syagros, or Fartaque, by Pliny ... In this the merchant is most probably the more correct of the two; for, as we may conclude that he performed the voyage himfelf, so is Arômata, or Cape Gardefan, the point that divides the limit of the monfoon on the coast of Africa: for, on the authority of Beaulieu, we learn, that he passed from winter, storin, and tempest, to caim and summer, in an instant, on doubling this promontory. Here then was the point where their course was open before them, from one continent to the other; and when they were once at sa, there was nothing to change the direction of the wind till they reached the shores of India. On their return from India, they ran down their longitude first to the coast of Africa, tending to an

<sup>36</sup> Pliny fays, it was 1353 miles from Sya- from truth, for it is in a right line near 1200 gros to Pátala; which is not very diftant miles.

object of magnitude which they could not mils or overrun; and then made good their latitude by coming up northward to the coast of Barbaria and the Red Sea. In effecting this we may conclude, that they directed their course, as nearly as they could calculate, to Arômata; but Ptolemy informs us, they fometimes got to the fouthward of it, and were carried much lower down than they wished; and fometimes we know that they came intentionally to Rhapta, Opône, and other marts on the coast of Africa, and proceeded afterwards to Arabia, or the Red Sea, according to their destination, interest, or convenience.

The commerce of the Arabians has arrested our attention throughout the whole progress of our inquiry, from the first mention of their imports in scripture, to the accounts of the present day. Their connections with the countries in their neighbourhood is equally obvious: in Syria, Palestine, Egypt, Persis, Mesopotamia, and on the Tigris, we find them noticed by Pliny ""; in India, by Agatharchides, and almost every subsequent geographer; in Africa, they are spread at this day from the Red Sea across the whole continent to Senegal; and in the Eastern Ocean they are found upon every coast, and almost upon every island. But general as the extension of their name and nation may have been, when we refer to their own accounts, nothing is more obscure "-nothing less satisfactory. The information to be collected from the little tract of the Periplûs is a picture of geography, in comparison of the two Arabian narratives published by Renaudot, of Ebn Haukal, or Al Edrissi; besides all the fabulous and the marvellous which we have to remove. Still

<sup>237</sup> Lib. xii. 17.

of the coafts, but likewife from their adopting 138 They are obfcure, not only from the names that are neither native or claffical, but

there are fome particulars in these authors already noticed, which are worthy of attention; and something in the Arabians of Renaudot peculiarly connected with the object of our inquiry; for the general fact, that the Indian commerce had settled at Siraf in the ninth century, is a revolution of importance.

Siraf " is upon the fame coast in the Gulph of Persia as the modern Gomroon, and held the same rank at that time as Keish in the thirteenth century, and Ormus of a later date. The merchants of Siraf, in that age, evidently performed the voyage to China, and Chinese ships are mentioned at Siraf; but a closer examination has induced me to believe " that they were not Chinese, but vessels employed by the Siraf merchants in the trade to China. The trade from this port, however it extended farther to the east, certainly met the Chinese sets on the coast of Malabar; for there it is mentioned, that the Chinese paid a duty of a thousand "" drams, while other vessels paid no more than from one dinar to ten.

But the ships that failed from Siraf went first to Mascat in Arabia, for the same reason that the sleets from Egypt took 'their departure from Kane and Arômata; that is, because they obtained the monfoon the moment they were under sail. The Arab has fortunately preserved this circumstance; for he says, "from Mascat to Kaucampreserved this circumstance; for he says, "from Mascat to Kaucampreserved this circumstance; so he says, "from Mascat to Kaucampreserved this circumstance; so he says, "from Mascat to Kaucampreserved this circumstance; so he says the same says that says the says that says the same says t

<sup>&</sup>lt;sup>69</sup> It is written Shiraff, Sharraf, and, by M'Chier, Charrack, pronounced Sharrack.
<sup>60</sup> In the port of London, a Chier thip is a

ship defined for China; and in this fenfe, perhaps, the Arab fays, that most of the Chinefe ships take in their cargo at Sirat. He deferibes their passage down the gulph to Matcat; and upon meationing the straits at Mussendon, he adds, "after we are clear of these tooks, we

<sup>&</sup>quot; fleer for Oman and Mafeat," I conclude

from this, that the narrator acqually failed himfulf on board a Siraf faile for China, and in that fenfe called it a Chinafe faile. P. 8. Eng. ed. I do not, however, think this proof fo conclusive, as utterly to deny the navigation of the Chinafe well of Malabar.

d \* Two Arabs. P. 9. Eng. ed. The fum e is too fmall to be credible; 10,000 dinars are e equal to 11. 171. 6d. De Sacy, p. 332.

" mali is a month's " fail, with the wind aft." Here then we have an evidence of the monfoon, and of the paffage direct from one coast to the other, in harmony with the Periplus; we have a paffage of thirty days from Mascat, proportionate to the forty days from Gardefan; and whatever Kaucam may be, we find in Mali a reference to Malè and Malabar, in which we cannot be mistaken. Al Edrissi, who copies this passage from the Arabs, writes the name 243 Kulammeli; fo that between the two authorities we may poffibly discover Kulam on the coast of Malabar; and on that coast, in the kingdom of Travancore, there is ftill the port of Coulan, about eighty miles below Cochin; and another Coulam \*\*\*, or Coualam, to the eaftward of Cape Comorin. Either of these may be the port intended by the Arabian Journal, as it informs us, that "after watering here, you " begin to enter the sea of Harkand," that is, the ocean to the fouth of Comorin; and in another passage it is added, that "Kaucam is " almost upon the skirts of the sea of Harkand."

I am not certain that I can follow my author farther; but if I understand him right, it is sufficiently evident, that though they failed by the monsoon to Cape Comorin, they did not cross the Bay of Bengal by the same wind; but after rounding Ceylon, or passing.

<sup>241</sup> The Arahs had not much improved upon the Greeks in the art of Navigation.

<sup>&</sup>lt;sup>34</sup> The difference of Kaseem and Kulam way be reconciled by fuppoling the transflutors is promised by the want of the discritical points; p. 22, a difficulty which occur to all transflutors in xendering priper names. Compare the Arabian Journal, p. 9, with Al Edvilin, p. 60, and but P. p. 37, where Calementii is characterized as wither fluid (that is, the country) which produces pepper. High the fladas of the Arabian control of

bian geographers are upon the continent.— Compare it also with Abulfeda, who calls it Caulam, the last port of India, where pepper is procured. Lat. 8. Melch. Therenot, vol. i.

<sup>\*\*:</sup> This other Coulam, or Covalam, beyond Cape Comorin, is in the country of Timevelli; but Paolino days, the first Coulan ought couls to be written Collam. P. 75.—The trade continued at Coulam in Marco Polo's time. See lib. iii, c. 25.

the straigs of Manar, they stood on by Lajabalus 445 and Calabar (which is the coast of Coromandel), and Betuma (the same as Beit Thuma), St. Thome or Meliapoor; and then by Kadrange and Senef to Sandarfulat, which ought to be the Straits of Malacca; and thence to China. There feems to be more coasting in this voyage than in that of Ptolemy; for he carries his fleets across from some point in the Carnatic to the Golden Cherfonese, at once. But if his communication terminated there, the Arabs went farther east than his Sinus Magnus, and reached Canfu 446 in China, which is the modern Canton, where they traded much under the fame refirictions which Europeans experience at the prefent hour. After all, they confess that very few of their ships reached China; that the voyage was extremely dangerous 447, and that water-spouts and tuffons were continually to be dreaded; added to which, at the date of their narrative in 867 of our era, the kingdom of China itself was diffracted by internal commotions 145, which made it no longer fafe for merchants to venture into the country.

245 It is written Najabalus alfo, which d'Anville reads Nachabal for Nichobar. But the islands of Arabian writers are frequently not illands; and if the pavirator went first to the Nicobars, and then back to the coast of Coromandel, he almost doubled the passage across the bay. Calabar, I suppose, itsuds : Proper is on the eastern tide. Al Edriffi, p. 34. is control to Malabar, commencing possibly at Calymere. Bet Thuma is the house or church of St. Thomas at Meliapoor, near Madras: Kadrange and Senef. I cannot difcover; but Senef I suppose to be the Sanf of Al Edriffi, which, he fays, is ten days from Sandifalat; and Kadrange may be Arracan. Sandifalat can hardly be any thing elfe but the Straits of Malacca; but Renaudot reads it Sandar-Pulo, and converts it into Pulo-Condor, of Sunga. Arabs, p. 41. remarks, 47.

which feems fanciful. It might be a fubject of inquiry, whether Scnef, Sanf, or Samf, may not be Siam. The fea opposite the coast of Coromandel is called Mare Sanfieum, which may be the fea of Siam; but Siam extends acrofs the peninfula, and the gulph of Siam

246 Canfu is the Chancon of Al Edriffi. P. 37. 247 Between the fee of Harkand and Delarowl there are 1900 illands (Arabs of Renaudot), which include the Maldives, Sarandiv, and Ceylon, in the fea of Harkand. Arabs 2. Al Edriffi, p. 31. The danger of the voyage was increased by these, as much as by the obstacles farther east.

248 The wars which preceded the dynasty

But fill it should be remembered, that the Arabians are the first navigators upon record, except the merchants of Cosmas, that penerated to China; that they are antecedent to the Europeans in this voyage by more than fix centuries; and that they had sound their way to the northern \*\*\* frontier of this kingdom in the ninth century, while in the fixteenth, the Europeans were disputing whether Cathai and China were the same. We have no record of any European \*\*\* visiting this country by a northern route before Marco Polo, in the twelfth century; or of an European failing in the sea of China between the time of that traveller and Nicola di Conti, in 1420. Batthema's voyage is between 1500 and 1504, immediately preceding the arrival of the Portuguese.

These circumstances will naturally suggest restedions in regard to the Arabs of the Defert, and the Arabs on the Coast. The sons of Esau were plunderers by prescription and profession; their hand was against every man, and every man's hand against them. The samily of Jocktan "', in Yemen, Hadramaut, and Oman, were as naturally commercial; and as they anticipated the Greeks and Romans in the navigation to India, and the modern Europeans in the discovery of China, it is no more than their due to ascribe to them a spirit of commerce, enterprize, or the thirst of gain, in ages which

Multiple adically an Arab or not, I cannot diffeorery but the Arab flay, he was acquainted with one, who had feen a man that a travelled on foot (by had] from Samer-cand to Canfu, with a load of Mult; and had rewarded all the elijes of Chias one after another. This is a proof, at leaft, that the commiscation was open between Samarkand and China; and as Samarkand, at that time, was thighly the Modelmen, this trateller was at

least a Mahometan, if not an Arab. Renaudot, p. 71.

20 Europeans had reached China, but from

Europeans had reached China, but from a different caule. M. Polo found a French goldfmith at Cambalu; but he had been cartied off from Poland by the Tartars, who had made an irruption into that country.

<sup>251</sup> Cedrenus calls them, Interior Arabians, Aman and Jektan, p. 422. Yemen and Jocktan, Tarien Outsital to 201 EMHIOPOL

no hiftery can reach; and to conclude, that if the precious commodities of the Eaft found their way to the Mediterranean, as undoubtedly they did, the first carriers on the ocean were as undoubtedly the Arabians.

Whether we are better able to understand the Grecks, or whether the Grecks are more intelligent and better informed than the Arabs, I cannot fay, but Cosmas, who was never in India himself—who was a monk, and not the wisest either of his profession or his nation, is far more distinct and comprehensible in the fixth century, than the two Arabs in the ninth, or Al Edrissi in the twelfth. He gives a very rational account of the pepper trade in Malabar, and the meeting of the merchants from the East with those of Europe, from the Red Sea, and Gulph of Persa, in Ceylon, which in his age was the centre of this commerce; and he affords a variety of information, which the Arabians either did not know, or have not recorded. But we shall have recourse to him again when we arrive at Ceylon.

I have more than once noticed the Rajah, who, as Pliny informs us attended the embaffy from the king of Ceylon to Claudius, and who afferted, that his father had vilited the Seres. I once thought that this Rajah went by fea; but upon a closer inspection of the passage, it is plain that he went by land from Bengal across the mountains called Emodi. Still we have, upon the whole, a proof, that through the intervention of different nations, a communication was open from the Red Sea to the country of the Seres. Whether the Seres are Chinese, has been much disputed; but that they were visited by sea, is true, if the evidence of Cosmas which is the work of Cosmas in the way of the Seres.

<sup>22</sup> Cofmas calls them Tzinitzz, and Tzinifiz. See Differtation ii. infra.

fufficient; and that they were approachable by land through Tartary on the north, is afferted likewife by Pliny and Ptolemy. This is a peculiarity that fuits no nation but the Chinefe; and if we find this fact recorded from the time that hiftory commences, it is a ftrong prefumption that the fame intercourfe took place many ages antecedent to the accounts which have come down to the prefent time.

Whether the author of the Periplûs himfelf failed with the monfoon, or by the coaffs which his narrative takes in fucceffion, he has not informed us; but if he was in India more than once, he might have tried both the different routes. His leaving this circumflance undetermined, may induce a fufficion that he was a geographer, rather than a voyager. But the fame circumftance occurs in Capt. Hamilton's Account of the Eaft Indies: he gives the ports in fucceffion, from the Cape of Good Hope to China; yet he certainly did not vifit them all in one voyage, but gives us the refult of the knowledge he had acquired in all his different navigations.

For this account of the monfoons, and the effects produced by them relative to the commerce of the ancients, no apology is require: it is of the very effence of the defign propofed from the commencement of this work, which was intended not merely as a comment on the Periplus, but from the opportunities afforded by that journal to inveftigate the commerce of the Eaft in all its branches; to trace its progress or fittation in different ages, and to examine its relations, causes, and consequences, till the new era of discovery commenced by the efforts of the Portuguese, under the auspices of Don Henry, and the great work was effentially completed by the achievements of Cama and Columbus.

We return now to the narrative of the Journal, which was interrupted at Bárakè, for the purpose of introducing Hippalus to the acquaintance of the reader, and commences again with Ela-Bakare. altered as to its orthography, in which it now corresponds with the Beccare of Pliny, and the Bákarè of Ptolemy. It is now likewife augmented with the addition of Ela; in which, as has been obferved, we recover the Eli of Marco Polo, and the d'Eli or d'Illi of our charts. In this passage there is mention of the Ruddy Mountain 151, and then an omiffion in the text, which requires examination before we can proceed. I have lately learnt that d'Illi itself is not red, but that there are red hills, or land, both to the north and fouth of it: the red hill to the fouth, lying near the fea, is that which we must prefer for the Ruddy Mountain of the Journal; and as the features of nature are indelible, it is much fatisfaction to establish the consistency of the narrative upon ground so well ascertained. I confider this, therefore, as a point fixed; but I ought not to omit, that the Oriental Navigator 154 notices red cliffs much lower down, both on the north and fouth of Anjenga; and as we are approaching very fast to Cape Comorin, if it should appear preferable to others to affume these for the Ruddy Mountain, there is confessedly some ground for the supposition.

Coast of India, 1720; the work infelf I have d'Illi; for Formola is five leagues from d'Illi, not feen :

<sup>&</sup>quot; Southward of Mount d'Illi, in fair wea-" ther, you may fee the Dutch fettlement of " Cananoor, which will bear N.N. by N. 44

<sup>&</sup>quot; leagues; you bring the flag-flaff N.E. by " E. about two miles off shore, and then you " will bring that peak feen over Calicut E. " by N. over a reddifb bill by the fea-fide."

<sup>&</sup>quot; Four leagues to the fouthward of For-

<sup>35</sup> I have received the following extracts " mofa there lies a reddiff hill, by the feafrom Capt. Henry Cornwall's Remarks on the " fide." This must be a league north of

according to the Oriental Navigator, p. 223. " When Mount d'Illi bore S.E. by E. about four leagues, Mount Formola bore

<sup>&</sup>quot; N.E. & N. three leagues . . . . Two hills es were in fight; one to the fouthward, and " the other northward; the land hereabouts

<sup>&</sup>quot; appearing reddift near the fea-fide, especially

<sup>&</sup>quot; towards funfet," 254 P. 227.

The omiffion <sup>23</sup> in the text may be fupplied, by fupposing that the country of Pandion is intended; and the featence would then express, that after leaving Ela-Bákarè, you arrive at the Red Cliffs, and beyond them the Parália <sup>28</sup>, or coast of the territory subject to Pandion, which fronts the fouth, and where you find the town of Kolkhi, and the Pearl Fishery. By this we are to understand, that he means the fouthern coast beyond Cape Comorin; and so he afterwards expresses himself; for he reverts to Comorin, and then proceeds again to Kolkhi and the fishing-ground.

Ptolemy makes no mention of the kingdom of Pandion previous to Komar; but commences the province of the Aii with Melenda and Elanki "", and makes it terminate at Comar. This would embrace the modern Calicut, Cochin, and Travancore; and in this tract we have fill an Aycotta near Crangancor, that is, the fortrefs of Ai ". In all other respects, the division of the provinces is nearly the fame in Ptolemy and the Periplüs, from Barugáza to Comar; and their want of correspondence here, is a circumstance in favour of both; for the kingdom of Pandion is placed by both on the eastern side of the peninsula, and Modura, his capital, is the present metropolis of Mádura. If he had a territory on the Ma-

<sup>255 &#</sup>x27;Απ' Έλαθακαρὰ τὸ λογόμερο Πιρβόν δρος ἄλλη παρίκε χώρα τη . . . . . . . . . . . κης ἡ Παραλία λογόμερη πρός αυτάν τὸν κότο».

We may read, Διλα παρίσε χόρα τῆς Πα-Δουικός, confirmed by the following clause: Σο και Κολυβουδή (του) τὸτ ο Κασιλαί Παδιώνα καικώ. Βατ if by the text we are to undertinal that Elabakær itfel is called the Ruddy Mountain, perhaps there is fome further omiftion or corruption in the text. 1 with το confider Ela as Mount d'Illa, and Bákarè, or

Ela-Bákarè, as Ram-d'Illi, near the mouth of the river where the velfels lay; and here might be the reddish hill one league N. of d'Illa.

<sup>35</sup> We should naturally suppose that Paralia was a Greek term, and literally the cooff; but Mr. Hamilton informs me, that Paralya, in Sanskreet, fignifies the remotest region; that is, the extreme part of the peninfula.
37 Nelkunda and Ela.

<sup>250</sup> D'Anville, p. 116. Paolino, p. 86.

labar \*10 fide, it was by conquest; and Pliny is in harmony with both: when speaking of his possessions on this side, he says, Módus, the capital of Pandion, was at a great distance inland.

## XII. BALÍTA, COMAREI, KOLKHI, PEARL FISHERY.

Balita is the first place mentioned by the Periplus after leaving the Ruddy Mountain: it is the Bam-bala \*\*\* of Ptolomy; but we have nothing to determine its position, except the mention of its having a fine road for shipping, and a village on the coast. No representative of Calicut appears, and probably it did not then exist, nor for several centuries afterwards. The Kolkhi of the ancients has been frequently mistaken for it; but as Kolkhi is beyond Comorin, and is the seat of the Pearl Fishery, the supposition is impossible. Calicut \*\*\* was the grand centre, for many ages, of all the Eastern and Weestern commerce, from its origin in 805 \*\*\* still the arrival of the Portuguese; and though its splendour is now eclipsed, it is still a place of great trade for pepper \*\*\*, cardamums, fandal-

The country of Malabar Proper could raife more than twelve hundred thousand men, according to Capt. Hamilton, i. 288.

There is a Tum-bala on this coast fill; but whether it is ancient or modern I know not, nor whether its position would be fuitable, if those points could be ascertained.

<sup>24</sup> We have a Mahomedan account of the fettlement of the Mollens as Calignt, taken from Ferilita, and published in the India Ann. Register 1799, p. 143. Miscel. But as Fettlita was a Mahomedan himself, fo doe's he fay, he has it from a poerical account; and though it unserves we not provided the form of the fay.

Perumal's retirement, and the divition of Malabar, it fill contains much that is problematical, and feems a Mahomedan fiction to give the Mollems a legal fettlement in the country.

Subjoined to this account, however, there is a valuable note, giving an account of the kingdom of Bijuagar—its rife, power, and diffuhition; and proving, that the influence of the Ram Rajah extended over Malabar.

D'Anville, Antiq de l'Inde, p. 114.

Tellicheri, an English fort and factory,

rifitta was a Mahomedan himfelf, fo doés he "" Tellicherf, "an English fort and factory, fay, he has it from a portical account; and was established on this coast for the purpose though it preferves the outline of Ceram of procuring these articles, and Angenga.

wood, and other commodities; much frequented by the veffels of Europe, and ftill more by the traders from the Red Sea, Maſkhat, and the Gulph of Perſia. Theſe are circumſſances too well known to be infiſted on; and we muſt proceed to Comar, no leſs confpicuous in its ſſtuation at the apex of the peninſula, than in the preſervation of its name through fo many ages, and fo many revolutions both of commerce and of empire.

At Komar there was an harbour and a fortrefs, with a garrifon: there was likewife fome religious eftabliftment, in which those who dedicated themfelves to the worship of the presiding deity first confectated themselves by ablutions, and then entered into an engagement of celibacy. Women partook of this infititution as well as men; and the legend of the place reports, that the goddes to whom their services were dedicated, used formerly to practife the same ablutions monthly at this consecrated spot.

The name of the place, according to Paolino \*\*\*, is derived from Cumari, a virgin deity, the Diana and Hecate of the Hindoo mythology. The convent \*\*\*, he adds, fill exifts, and the fame fuperfittion is practifed at a mountain three leagues inland, where they fill preferve the tradition of Cumari's bathing in the fea. The Sanfereet name, he adds, is Canyamuri, Cape Virgin, but contracted by the natives themselves into Comari, or Cuman. He mentions

st Camari, he informs us, fignifies a virgin; called Jogi, accoultur, or Go-funni, hard sept to Camri stime moon, in Arabie; and Dians (at Morby) is the goddet of the moon, the filter animal; or Staman, ingligative, locasife they of Phobau. Whether Comr has fuch a mean. Germani of Strabo). They live in convents bute in Hindoo mythology, may be caused they of the Hindoo mythology, may be caused they of the Hindoo mythology, may be caused the strain of Strabo). They live in convents under a fuperior, sleep on the ground on maximum and the strain of Strabo). They live in convents under a fuperior, sleep on the ground on maximum and the with the other strains.

also a small port here, conformably to the account in the Periplus; and a church, sounded by St. Xavier, on a mountain close to the sea, which, report says, is dedicated to the Virgin Mary; but on this head the good Carmelite is filent, and 1 know not whether the report is true.

Circumflances fo correspondent, at the distance of two thousand years, could hardly be found in any country except India; and to the local knowledge of Paolino we are much indebted. He has reprobated, indeed, all literary men, who prefume to determine questions in their clofet relative to countries which they have never viited; but though I and others, who pursue our fludies in retirement, owe him fomething in return, I shall revenge myself by no other method, but by citing a beautiful passage from his work, descriptive of the Paralla \*\*' or Coast of Malabar. Paolino, on his return to Europe, had embarked in a French frigate called the Calpyso; and while he is pursuing his course between Cochin and Cape Comorin, he burths out into a rapturous description of the scenery presented to his view:

"Nothing" can be more enchanting to the eye, or delicious to
"the feafes, than is experienced in a voyage near the extremity
"of the peninfula. At three or four leagues from the coaft, the
"country of Malabar appears like a theatre of verdure: here a
"grove of coca-trees, and there a beautiful river pouring its tribute
"into the ocean, through a valley irrigated and fertilized by its
"waters. In one place a group of fithing-veffels, in another a

<sup>\*\*</sup> Paoliao is mifiaken in sepposing Paralia in contradistinction to Paralia Soringorum, the to be consined to the Pearl Fishery; it ex. Coast of Coromandel. tends the whole way from Elabákaré to the \*\* P. 371.

Fishery, and is literally the coast of Malabar,

- "white church "s", peering through the verdure of the groves; "while the gentle land-breeze of the morning wafts the fragrance
- " exhaled from the pepper, cardamum, betel, and other aromatics,
- " to a great distance from the shore, and persumes the vessel on her
- " voyage with their odours; towards noon fucceeds the fea-breeze,
- " of which we took advantage to speed the beautiful Calypso to" wards the port of her destination."

Our Greek and Arabian conductors have no effutions of imagination, but a picture of the country where we are, drawn upon the fpot with the enthuliafm and fentibility of an Italian, will make ample atonoment for the digreflion. I need not add, that during the north-eatherly monfoon, a voyage on the whole coast is effectually a party of pleasure.

We are now to proceed to Kolkhi and the Pearl Fishery, in regard to which Paolino is much displeased that none of the geographers have agreed in placing Kolkhi at Coléchè in. He will not allow any of us to know the least of the situation of places which we have never seen, and yet we shall build on his own premises to subvert his conclusion; for he, in conjunction with all our charts, places

<sup>30</sup> There were many charches in this country, both of the Million, and of the Malabar Chriftians; but the irruption of Tippoo defroyed every Hindoo pagoda, and every Chriftian church, as far as he penetrated. Af. Ref. vii. 379.

To these Christians of St. Thomas, Alfred fent Sighelm, bp. of Sherbourne, who brought home many jewels, aromatics, &c. some of which remained long at Sherbourne. Hackluit, ii. c.

I wish we had more authority for this than

the tradition of Sherbourne, for Alfred deferves every honour which can be added to his name.

\*\* In Mr. Le Beck's Account of the Pearl Fiftery it is faid, that the best divers are from Collish, on the coast of Malabar. I conclude that this is Coleche. As. Res. v. 402.

<sup>39</sup> Questa citta su sovente confusa con Covalan, Colias, o Colis, degl' antichi, da quesli feritori...che non avevano essaminato il sito locale delle due citta tra se molto diverso.

Coléchè " previous to Comorin; and therefore, whether we find a representative for Kolkhi or not, his assumption must be false; for both Ptolemy and the Periplûs 272 place it, not to the westward, but the eastward of Cape Comorin. The Pearl Fishery is not now, and never was, carried on to the westward or northward of Cape Comorin. The Pearl Fishery is likewise marked out by another characteristic still peculiar to it; which is, that pearl oysters are found only at one place-the island of Epiodôrus, which can be no other than the ifle of Manar 278, and there the fishery is at the present hour. By the name of Epiodôrus, we may conclude a Greek of that name from Egypt was the first of his countrymen that visited this island; and where would a Greek not have gone "1", if he had heard that pearls were to be obtained? The great request in which they were at Rome and Alexandria, feems to have marked them out, not indeed as of greater value than diamonds, but as a more marketable and preferable commodity for the merchant.

The power which in different ages has prefided over the Fifhery, whether native, Portuguefe, Dutch, or Englith, has regularly taken its flation at Tutacorin: the Fifhery itself is always on the Ceylon fide, towards Manar, at Chilao ", Seewell 36, Condutchey, &c. The number of persons who aftemble, is from fifty to fixty thousand;

Comorin, feparated by the Straits of Manar. p. 396.

<sup>&</sup>quot; Capt. Hamilton fays, between the middle and well point of C. Comoria, i. 333.

πin and the filand of Epiodorus removes all doubt. P. 3.73.

Κάλχαι, b ὁ καλιμοριό το Small bin.

"" In Column.

<sup>291</sup> Le perle nifcono vicino a Mannar. Paolino; 374. But he fars likewite, there are two fiberius: one to the welward of Cepido, in the open fina; and another east of Cape

confifting of divers, mariners, merchants, and tradefinen of every defeription. The Nayque of Madura, who was fovereign of the coaft, and the reprefentative of Pandion, had one day's fiftery; the Governor of Manar's wife, when the Portuguese were masters, had another day, afterwards perverted to the use of Jesuits; and the owner of the vessel had one draught every fishing-day. After the fishery was concluded, the fair was kept at Tutacorin. The brokerage and the duty amounted to four per cent.—paid by the seller. The vessels were not sewer than four or sive hundred, each carrying from fixty to ninety men, of which one-third were divers. Capt. Stevens supposes the pearl of Manar to be inferior to that of Bahrein.

This fiftery is likewife defatibed by Cefar Frederick, and a variety "of authors. He informs us, that the divers were chiefly Chriftians of Malabar in his time; they are now a misture of that defaription, of Roman Catholies, and Hindoos; but the fuperfittions practified to preferve the divers from the fharks, and other dangers of their profeffion, are all Hindoo. Several fanatics are well paid for their attendance during the fithery for that purpofe; and the fharks are as obedient to the conjuration of a Brathin, as they could be to a Malabar prieft; for the charm is not perfectly efficacious. Those who wish to enquire farther into the detail, will meet with a very excellent account in the Afiatic Refearches (vol. v.) by Mr. Le Beck; in which he will find that this fiftery, which used to produce 20,000.1 to the Portuguese and Dutch 1st, produced, in the year 1797, 150,000.1 under the management of the English ".

"Purchas, vol. iii, p. 1708. By Marco king had a tenth; the bramin, a twentieth. Polo, lib. iii. c. 20. who mentions the Bramin; "Capt. Stevens.

"Dayl. Stevens." "Special Stevens." "Appl. Stevens." "Special Stevens." "Spe

446

In the age of the Periplûs, none but condemned criminals were employed in this fervice; a practice common to all the nations of the ancient world, in their mines, in their gallies, in the conftruction of their public buildings, and execution of all their public works. The mines of Potofi are filll worked by flaves, where the fame miferies are experienced as Agatharchides has depicted in the gold-mines of Egypt; while in Europe, or at leaft in England, we never want freemen to work in our collieries, in our mines of tin, lead, or copper, whose labour is procured, and whose dangers are compensated, by the higher price they obtain for the services they are to perform.

I ought now, in compliance with the nature of the undertaking in which I am engaged, to follow my author to the conclusion of his work; but as I am perfuaded that he never went farther than Nelkunda himfelf, and that he has built upon report in all that is subsequent to that place; so does report grow so vague after quitting the Pearl Fishery and Ceylon, that though he mentions several circumstances in common with other authors, there is so much indeterminate, that I reserve it for a separate discussion. My reason for afferting this is, that he extends the Coast of Coromandel to the east; that he is no longer in particular, but general correspondence only with Ptolemy; and that he has extended Ceylon towards Africa, instead of afsigning it a position where it actually exists.

<sup>\*\*</sup> Agatharchides had faid a great deal more than his abbreviator has preferred: "Temphan's & short to making descriptions unraless serpsystats. Apud Huddon, p. 23. But what remains is fufficient:

Ορά δι άνθρόπου άπερα τζ πλέθε, πτυματών

<sup>(</sup>όστη linds γίνεται) ών ολόγων is τοῦς χάωνας καὶ πλακώδετε υποιόμες γενομένεν. P. 27.

The multitude of hones still found in these excavations is incredible, of wretches crushed by the falling in of the earth, as must naturally happen in a loose and crumbling foil.

Pliny has faid fomething of the paffage between Cevlon and the continent, not very fatisfactory indeed, but fufficient to shew his opinion, that the trade was carried on by this firait. The Periplûs feems to confirm this idea, and Ptolemy has nothing to the contrary; but if the opening in Adam's Bridge, near Manar 1811, was no deeper at that day than at prefent, no ship of burden " could have paffed it. Pliny informs us, that throughout the whole of the firaits the depth was not more than fix feet; but that there were particular openings, so deep that no anchor could reach the ground. He is likewife fo deceived in the position of the island, as to make the embaffadors fent to Claudius aftonished at seeing the shadows fall to the north; not reflecting that in their own country, if he had known its fituation, they must have made the same observation annually, when the fun was to the fouth of the equator. These and many other errors of the ancients, induce me to enter more largely into the account of Ceylon than the nature of my work requires; and this I shall consider as the termination of my inquiry, leaving the remainder of the Periplûs for a general discussion, by way of fequel to the whole.

Koil, the Island of the Sun. Manar, in the Tamul language, fignifica

a fandy river; applied here to the shallowness of the ftrait. Al. Ref. v. 305-

The fishery is usually on the Ceylon fide; as at the Seewel Bank, 20 miles welt of Aripoo, Condatchey, &c. Ibid.

Hardouin allows that the Coliacum Pro- 24, without mention of Voffius.

<sup>21</sup> Pliny calls either this island, or Ramana montorium is not Comorin, but at the Straite of Manar.

se A passage in Pliny, omitted in the printed copies, is, Magnitudo alterna millia ad foram ; which Vollius inferts and reads, Magnitudo ad terna millia amphôrum. No-

ship of this fize could now pals the straits. Hardonin adopts this emendation, lib. vi.

## XIII. CEYLON.

THE first account of Ceylon was brought to Europe by the Maeedonians, who were with Alexander in the East. Onesicritus is recorded as the first author who mentions it, under the title of Taprobana; and its variety of names in the East, as well as Europe, is one of the extraordinary circumstances that attend it.

Lanca 11, or Langa, - is the true Sanskreet name, according to Paolino, p. 371. Vossius ad Melam, lib. iii. 7.

llam, - - another Sanskreet name, feemingly joined with Lanca; Lanca-llam. Id. There is a fabulous island in Al Edriffi, Lanchialos, which he says is ten days sail from Sarandib. Is it not an error from Lanca-llam?

Salabham, - another Sanskreet name, fignifying Sal, strue; and labham, gain. Paolino.

Salabha-dipa, - ...

Salabha-dip, - - Sanfkreet. The Ifland of true or real Profit, from its rich productions of gems, fpices, &cc. Paolino.

Tapróbana \*\*\*, - - the first name brought to Europe. Bochart
makes it מריל Taph Parvan, Littus

<sup>40</sup> Lankoweli. Capt. Mahonty on Ceylos, Tap-raban. Mr. Hamilton does not difap-fix Ref. vii. 49.
<sup>40</sup> Suppofed by Burrows to be Tap-bon, no allufion to fach a name of the ifland in any the Wildernels of Prayer. Ayen Achart, it. Sankreet writing he has feen.
9, 250. Oct. del. This is not fo probable as

aureum, 2 Chron. iii. 6. and the Ophir of Solomon. But it is from Tape, an island, and Ravan, a king of Ceylon, conquered by Ram. According to the As. Researches, v. p. 39. Tapravan, or Tapraban.

Salika

of Ptolemy, who fays, it is the Taprobana of the ancients, afterwards called Simoondu, but now Sálika or Sálike; the inhabitants, Salæ. Salikè is therefore an adjective like Ariakè, Barbarikè, Limurike, with yn or more understood. And the island of Salè approaches very nearly to Selen-dive 215.

Seren-dip. Sielen-dip, Selen-dib. Selen-dive. Σαραντιπ. Chylococcas in Vollius. Διζε γ' ές ν αυτοίς νησος ή χώρα. Voff. ad Melam, 257. Var. ed. 569. Philostorgius.

the Seren-dib, or island Seren, Selen, of the Arabs; the Sarandib of Al Edriffi; the Divis 186, and Serendivis, of Ammianus Marcellinus, who is the first author of the Latins or Greeks who uses this name. Divis, the Lackdives or Maldives, or islands in general. Seledivis.

There is a particular cast on the island name of the people, Salai, and of the island. at this day, called Sale or Challe, and Chal. Salike, would be naturally derived from them. lias: they are labourers, manufacturers of ftuffs, and cinnamon-pecters; and if the antiquity of their establishment in the island (for they are not a native tribe) be established, the curs. P. 306.

Af. Ref. vol. vii. p. 431. in a highly curious Treatife on Ceylon, by Capt. Ed. Moor. Divis is used in the case in which it oc-

Selen-dive, the island Selen. Am. Mar. lib. xxii. p. 306.

Palæfimoondu \*\*7

of the Periplûs. Pliny fays there was a river and city of that name, with 250,000 inhabitants; the natives called Palæogoni, perhaps from Bali, the Indian Hercules. Paolino interprets it Paralhrimandala, the kingdom of Parafhri, the youthful Bacchus of the Hindoo mythology. But it ought not to be omitted, that Mr. Hamilton confiders Simoonto as exprefiing the utmoß boundary or extremity; and Palifimoonto, as the limit of the expedition of Bali, the Indian Hercules.

fo Ptolemy calls a town and the natives, on the weft; Galibi and Mudutti, in the north; Anurogrammi, Nagadibii, Emni, Oani, Tarachi, on the eaft; Bocani, Diorduli, Rhodagani, and Nagiri [Nayrs], on the fouth.

Sailatta, - - - the name in usage in Malabar. Paolino.
Singala-dweepa, - is the true Sanskreet name, according to
Sinhala-dviba. Paolino.
Mr. Hamilton; the island of Singala.\*\*;
for dwipa, or dweepa, is equivalent to the

diva of the Arabs: hence Singala-diva became their Selendive and Serendive; literally, the ifland of the Singalas, the Chingalefe, and Chingulays, of the Europeans; the Singoos or Hingoos, as the natives fill call themfelves. I cannot help thinking this the moft eafy and natural of all the etymologies that have occurred; and I return my beft thanks to Mr. Hamilton for the fuggestion.

Cala, - - - the name used by the Arabs of Renaudot, p. 61.; but perhaps Sala 119.

If such is the sluctuation in the name of this island, the different reports of its size and situation are still more extraordinary.

Onesicritus estimates it at five thouland stadia; but, according to Strabo, mentions not whether it is in length, breadth, or circumference. I conclude that he means the latter; becaule, at eight stadia to the mile, this amounts to fix hundred and twenty-five miles; which is not very distant from the truth, for in Rennell's last map

					willes.
The length is	-	-	-	-	280
The breadth is		L.,	-	-	150
The circumference	e is	-	+.		660

If therefore we interpret Onesicritus rightly, he is entitled to the merit of correctness, as well as discovery; an honour due to very

<sup>\*\*</sup> Other names in Harris, vol. i. 697, are,
Transte, Hibenaro, Teanrilim, i. e. Teanseram; but thefe have been little noticed, and
Tean-ceram is evidently an error.

\*\* From Dondra Head to Tellipelli, 270
miles; from Colombo to Trincols, 160.—
tense from London Head to Tellipelli, 270
miles; from Colombo to Trincols, 160.—
tense from Dondra Head to Tellipelli, 270
miles; from Colombo to Trincols, 160.—
tense from Dondra Head to Tellipelli, 270
miles; from Colombo to Trincols, 160.—
tense from Dondra Head to Tellipelli, 270
miles; from Colombo to Trincols, 160.—
tense from Dondra Head to Tellipelli, 270
miles; from Colombo to Trincols, 160.—
tense from Dondra Head to Tellipelli, 270
miles; from Colombo to Trincols, 160.—
tense from Dondra Head to Tellipelli, 270
miles; from Colombo to Trincols, 160.—
tense from Dondra Head to Tellipelli, 270
miles; from Colombo to Trincols, 160.—
tense from Colombo to Trincols, 160.—
tense from Dondra Head to Tellipelli, 270
miles; from Colombo to Trincols, 160.—
tense from Dondra Head to Tellipelli, 270
miles; from Colombo to Trincols, 160.—
tense from Dondra Head to Tellipelli, 270
miles; from Colombo to Trincols, 160.—
tense from Dondra Head to Tellipelli, 270
miles; from Colombo to Trincols, 160.—
tense from Dondra Head to Tellipelli, 270
miles; from Colombo to Trincols, 160.—
tense from Dondra Head to Tellipelli, 270
miles; from Colombo to Trincols, 160.—
tense from Dondra Head to Tellipelli, 270
miles; from Colombo to Trincols, 160.—
tense from Dondra Head to Tellipelli, 270
miles; from Colombo to Trincols, 160.—
tense from Dondra Head to Tellipelli, 270
miles; from Colombo to Trincols, 160.—
tense from Dondra Head to Tellipelli, 270
miles; from Colombo to Trincols, 160.—
tense from Dondra Head to Tellipelli, 270
miles; from Colombo to Trincols, 160.—
tense from Dondra Head to Tellipelli, 270
miles; from

few of the ancient geographers in diffant regions; but to make amends, he adds, that it lies twenty days fail from the continent.

Eratofthenes reduces this diffance to only feven days fail, which is still too much; for it is not more than thirty-live miles from Point Pedro to Calymere, and fifty from the point next Manar to the opposite coast at Ramana Coil, which is the point where Pliny measures, or about an hundred and seventy from Cape Comorin to Manar. But then Eratofthenes adds, that it extends eight "" thoufand stadia towards Africa; that is, according as we compute the stadium, either eight hundred, or a thousand miles, in a direction exactly the reverse of truth. In this I am forced to confess, that the Periplûs has followed Eratofthenes, and added to his error; for it is flated in express terms, that it reaches almost to the coast of Azania 402, which lies opposite to it in Africa. In some account of this fort exifts the cause of the error in the Arabian geographers; for Al Edriffi has confounded Cape Comoriti, or Comari, with Comar 201, that is, the island of Madagascar; and in his map he has actually placed Madagascar to the castward of Cevion. This arises from his extension of the coast of Africa to the East till it reaches

gafcar, are confounded. In p. 21. Comr is a very long ifland for country 7, the king of which lives in Malai. This is evidently the peniafula terminated by Comorin, the king of which lived in Malabar; and the ifland Saraninitead of one. Saranda, he fays, (p. 28.) is dib lies feven days fail from it, which is the 1200 miles in circumference; and Sarandib diffance given by the ancients. But p. 34. we have Comr again, one day's fail from Da-And yet that Saranda is Ceylon, as well as gotta: now this is Madagaicar; for Dagutta Sarandib, appears manifest, by his placing the is in Sofala. Perhaps, if we ever obtain a Pearl Fishery there, and making it a great scientific translation of Al Edriffi, we may refort of merchants for spices. He has a dif- find diffinctions to obviate this confusion ; for ferent militake about Comar, or Comr; for his translator, Gabriel, knew as little of Ceylon

<sup>&</sup>quot; Strabo, p. 72. 5000; p. 690. 8000. \* Kal gedde he to nat avens arretaganhumas

Alaskas warens. 33 It feems to admit of proof, that Al Edriffi has made two iflands out of Ceylon, (p. 31.) is 80 miles long and 80 miles broad. Cape Comorin, and Comr the illand of Mada- as of Ruffix.

the fea of China, and the necessity he was under of making Madagascar parallel to the coast of Zanguebar.

It is with concern that I mention these errors, in which the author of the Periplûs is involved, and upon account of which I am constrained to allow his want of information in every thing beyond this point, and to confine myfelf within the boundary of his knowledge, which must be fixed at Ceylon.

Stisbo fuppofes Cevlon not to be lefs than Britain, and Josephus 204 conceives Britain not less than the rest of the habitable world: these. indeed, are expressions at random; but what shall be faid of the amplification 255 of Ptolemy, who makes its-

						Miles.
Length	- 1	-	-1	-	-	1,050
Breadth		- 0	-	-	`. <del>-</del> -	700
Circumfe	rence		4	-		2,450

He does not, indeed, extend it towards Africa; but he carries the extreme fouthern point more than two degrees fouth of the equator. which in reality is little short of fix degrees in northern latitude. His errors descended much later than could have been supposed; for Marco Polo 190 mentions this island as two thousand four hundred miles in circuit; and adds, that it had formerly been three thousand fix hundred, but part of it had been swallowed up by tempest and inundation. And even so late as fixty years before the discovery. of Gama, Nicola di Conti fupposes the circumference to be two

<sup>54</sup> Strabo, p. 130. Camden's Britannia, of M. Polo descends from Ptolemy; for he pref. lxxviii. See Pytheas Polyb. iv. 620. 40,000 ftadia.

tion is as I4 to I.

M I.am not certain that the amplification

fays, this is the fize, in the mariners' maps, of Iudia. Had Ptolemy feen fuch a map? or 25 D'Anville observes, that this amplifica. had the Mahomedans introduced the maps of Ptolemy into India?

thousand miles. Now what is most extraordinary in this is, that both "" these travellers must have seen the island itself, and must have failed beyond it, if not round it.

My purpose in producing these facts is not to expose the errors of those who have preceded me on the subject, but to shew how uncertain all information is, when grounded upon report. And yet, in the midst of this darkness, Ptolemy's information was such . as, in one inflance, to confirm the rank which he fo descreedly holds in preference to others; for he gives the names of places more correctly, and more conformably to modern intelligence, than appear in any other author, Greck, Latin, or Arabian. This is a merit peculiar to him, not only here, but in the remotest and least known regions of the world: it proves that his inquiries were made at Alexandria of merchants or mariners, who had actually vifited the countries he describes; but that they had not the means of giving true positions, because they had neither instruments for obfervation, or the compass to mark their course. The North Polar Star was not visible; and if they failed by the Canobus in the fouthern hemisphere, as Ptolemy afferts they did, that ftar is not within fifteen degrees of the Pole, and would give occasion to a variety of mistakes. Still, under all these disadvantages, it is something to have procured names that we can recognize; and their names at once put an end to the dispute formerly agitated among the learned, whether the Tapróbana of the ancients were Cevlon or Sumatra, They prove likewife, that fome merchants, or travellers, had reached the capital and interior of the island. By them the capital was found where Candy now is, and called Maa-gram-

<sup>397</sup> Not Nicolas di Conti, unless upon his return.

mum 258, the great city, or metropolis, which was placed on the river Ganges, still called the Ganga, Gonga, or Ma-vali-gonga, the great river of Bali \*99, which flows to Trincomalee. The Hamallel mountains, among which is the Pike of Adam, are likewife laid down relatively in their proper position, and called Malè, the Sanscreet term for mountains; and above all, Anuro-grammum 300 is preserved in Anurod-borro, or Anurod gurro, a ruin found by Knox, while he was escaping to the coast; which, he says, lies ninety miles north-west from Candy, and in a position correspondent with the account of Ptolemy. He found here three stone bridges; the remains of a pagoda or temple, fuch as no modern Ceylonele 301 could build; and many pillars, with stone-wharfs on the river Malwatouwa. Sindocandæ is another name expressing the mountains of the Hingoos, the name by which the natives call themselves; and Hingo-dagul is their name for Candy; for Candi is a hill or fortress on a mountain; and Hingo dagul, the city of the Hingoos, perverted by corruption into Chingoo-lees 102, by which name they are at prefent known to the Europeans fettled on the coast 103.

<sup>505</sup> Thefe facts are collected from Paolino, Knox, Ribeyro, Major Rennell, and pauticularly d'Anville, Antiq. de l'Inde, p. 150.

599 Bali occurs fo repeatedly in Ccylon, that there is reason to think that Palæogoni in Pliny, is not a Greek compound, but experies the defectedants, or fervants, of Bali.
500 Gramma fignifics a city, in Sanferest.

Paolino, p. 250. Knox, p. 6. Borro, boor, poor, and goor, have the fame meaning.

"Knox, pp. 72. 80. The natives of kin-

Anox, pp. 73. 86. The natures of this officient in skill, art, or power, to execute such works as are found here, or at Elephanta, or skillore. But the Hindoo governments are adduced.

not wealthy or powerful enough to support the expence; and perhaps the impulse of superfition has not energy enough to require

For the whole of this, fee Knox's Hiftory of Ceylon. He was feized after faipwreck, and detained as years a prifuner. He poffeffed the language; and though he may have his errors, is highly worthy of credit as an author of integrity, principles, and religion.

in. \*\* D'Anville likewife mentions the wild country on the fouth; where elephants are fill the found, with other refundlances; but these are fufficient to prove the sact for which they are adduced.

Bochart has many other names, in which he finds a refemblance; and those who know the country, by residing in it, might discover more; but I have confined myself to such as are incontrovertible; and these are sufficient to raise our assould obtain so much knowledge of a country, without being able to ascertain its dimensions or position.

Ptolemy has fill another particular which is very remarkable; for as he places the northern point of his Tapróbana, oppolite to a promontory named Kôru, fo has he an island Kôru between the two, and a Tala-Côri on Ceylon; and Kôry, he adds, is the same as Calligicum. This is denied by d'Anville, who separates the two capes, and makes Kôry, the point of the continent, at Ramiseram; and supposes Kalligicum to be Kalymere, or Kallamedu. This may be true or not, but it carries us away from the intention of the author; for Ptolemy has nothing to correspond with the northern liead of Ceylon, now called Point Pedro \*\*; but he makes his Borêum, or northern cape, erroneoully indeed, opposite to Kôry; and his three Kôrys on the continent, on the intermediate island and on Ceylon, are in perfect correspondence with circumstances actually existing.

The expedition of Ram to Ceylon, and his victory over Rhavan, or Rhaban, king of that illand, is one of the wildest fables of Hindoo mythology; but he passed into the island at the strait, since called, by the Mahomedans, Adam's 2st Bridge. The whole country round, in consequence of this, preserves the memorials of his conquest. There is a Ramanad-buram on the continent close to the bridge; a

animals, in Ceylon, almost proves an aboriginal

Tellipelli is more northerly than Point communication with the continent by means Pedro; but, lying out of the course of the of this bridge. Elephants might have been oryonge, is feldom noticed.

39 The existence of tigers, and other noxious belde.

Rami-ceram, or country of Ram, the illand close to the continent; a Point Rama, on the continent. The bridge itself, formed by the shoals between Rami-ceram and Manar, is Rama's Bridge; and in Rami-ceram is Raman-Koil, the temple of Ram. This Koil or temple is undoubtedly the origin of Kôru; and the repetition of it three times in Ptolemy, is in perfect correspondence with the various allusions to Ram at the present day. Kôru is likewise written Kôlis 306 by Dionysius, and the natives called Kôniaki, Koliki, and Koliaki, by different authors. This fluctuation of orthography will naturally fuggest a connection with the Kolkhi of Ptolemy and the Periplûs, which both of them make the feat of the Pearl Fishery: and if Sosikoore be Tuta-corin, as d'Anville supposes, the relation of Kolkhi to that place will lead us naturally to the vicinity of Ramana-Koil; for Tuta-corin was the point where the Dutch prefided over the fishery while it was in their hands, and maintains the fame privilege now under the power of the English. But Koil, whether we confider it, with Ptolemy, as the point of the continent, or feek for it on the island of Ramiseram 107, is so near. and so intimately connected with Manar, the principal seat of the fishery, that there can be little hesitation in assigning it to the Kolkhi of the ancients. Whether there be now a town of confequence either on the continent or the island. I am not informed; but that

<sup>26</sup> Paolino Iuppofes Kolis to be Covalam; but Diony fus evidently makes Kolis the fame as Kôru: Norfes τροτάρωθε καλώνη. . . Καλίαδος, μεγάλω Ισ1 τίρου δικά. . . Τασηδέατρο.

<sup>22</sup> See the account of Ramifur and Manar, in Capt. Mackenzie's Narrative, Af. Refearches, vol. vi. p. 425; a paper which gives

the best account of the two islands, the firstly, and Adam's Bridge, that I have yet feen. There does not appear any town or any buildings on this island, except those about the pagoda. The conflux of pligrims is immense. Coil, in the Tamul Isiguage, figuists a temple. P. 437°.

Koil, and Kolis, and Kolkhi, and Kalli-gicum 20st, are related, I have no doubt.

The Kolkhi of Ptolemy is on the coaft, indeed, previous to a river called Solên; and fuch a river appears in Rennell's Map, with the name of Sholavanden applied to a town on its bank; or Solên 109 may be the Greek term which fignifies a shell-fish, alluding to the Pearl Fishery in the neighbourhood. If therefore we adhere to Ptolemy, the iffue of this river would give the polition of Kolkhito a certainty; but the description of the Periplus would lead usdirectly to Koil, on the island Rami-ceram; for it is there faid, that the Bay of Argalus fucceeds immediately next to Kolkhi. Now. the Argalus of the Periplûs is the Orgalus of Ptolemy, which he places inflantly fublequent to his promontory Koru; and if we suppose this promontory to be the extreme point of the continent. north of Rami-ceram, which it is, we obtain the polition of the Kolkhi of the Periplûs, without a doubt. The island Kôru of Ptolemy is placed at a distance from the main, erropeously, as all hisislands are; but as it is certainly the same as Rami-ceram, and Ramiceram is feparated from the continent only by a narrow channel, the

sos For Kalligicum, Skimafius reads Κωλωκόν. Plin. Ex. p. 1113. And he sidds, Præter slighae re moveror, Κωλωκόν εν Καλωκούς υνέτειται, effe recentiorum Κόλωους. And yet, strange! he thinks the Kolkhi of the Periplus to be Cochin.

this fide of the frait nearest the continent, called Clanque, carried on along a range called the Low or Flat Islands. The river, as d'Anville has observed, divides inland, and falls into the fea by two mouths—one on each fide of Kovu. D'Anville, Antic, de l'Indee, p. 122.

<sup>&</sup>lt;sup>29</sup> Solen, in its original fense, is a pipe or flute, which the oblong mustle may be supposed to represent, but not the pearl offer. Perhaps this mustle was found in the river, without relation to the fifthery. I learn from Capt. Mackenzie's that there is a fifthery on

or Af. Refearches, vol. v. p. 445. Chanquo, the native term for the pearl oyfter, according to Salmafius, is derived from Concha, and received from the Greek and Roman traders.

island Kôru and the cape Kôru may therefore have been brought into one. I certainly think that Kôru, Kôls, Kolkhi, and Koll, are the same; but I am not so much led by the name, as by the position assigned to Kolkhi in the Periplus, immediately preceding the Bay of Argalus.

My own deductions on this question, I must confers, are contrary to Prolemy; and his authority has induced d'Anville, Rennell, and Robertson, to assume Kilkhare which is at the mouth of the river. It is but reasonable to conclude, that the concurrence of winesless so eminent will prevail against the evidence of the Peripliss, and any thing I have to offer in its favour. Still, however, it is just to state the question fairly, and leave the determination to those who may chuse to service it more precisely. On one point all testimonies agree; which is, that Kolkhi cannot be Coleche, as Paolino with much considence afferts; for it is impossible that it should be to the west of Cape Comorin.

From the fishery we may proceed to the island itself; and the most distinct knowledge we have of Ceylon from the ancients, is found in Cosmas Indicopleuses, whose narratives are as faithful as his philosophy is erroneous. He tells us honestly, that he was not at Ceylon himself, but had his account from Sopatrus, a Greek, whom he met at Adooli, but who died five-and-thirty years previous to his publication. This affords us a date of some importance; for it proves that the trade, opened by the Romans from Egypt to India direct, continued upon the same footing from the reign of Claudius and the discovery of Hippalus, almost down to the year joo of our era; by which means we come within three hundred and fifty years of the Arabian Voyage published by Re-

<sup>310</sup> Montfaucon fixes the last date of Cosmas's publication in 535.

naudot, and have but a fmall interval between the limits of ancieng geography and that of the moderns.

Sôpatrus, as his name teftifies, was a Greek; and I have not yet met with the name of a fingle Roman engaged in this trade "Perhaps the jealoufy of the emperors, which did not allow Roman citizens to enter Egypt without permiffion, had likewife forbidden them to emberk in these fleets. But the intelligence derived from sôpatrus is so perfectly consistent with all that has hitherto been adduced, and so correspondent to the Arabian accounts, which commence only three bundred and fifty years later, that it carries with it every mark of veracity that can be required. For Cosmas reports, from the testimony of Sôpatrus:

I. That the Tapróbana of the Greeks is the Sieli-diba of the Hindoos; that it lies beyond the Pepper Coaft, or Malabar; and that there is a great number of small islands [the Maldives] in its neighbourhood, which are supplied with fresh water, and produce the cocoa-nut in abundance. The cocoa-nuts he calls Argellia; and Argel, or Nargel, I am informed, is the Arabic name of the cocoapalm tree. He adds, that it is nine hundred miles in length and breadth, which he deduces from a native measure of three hundred gaudia; but if gaudia are costs, his estimation of them is in excess; for three hundred offes are short of five hundred miles—a computation too large indeed for the island, but still more moderate than that of the geographers previous or subscene.

II. He acquaints us next, that there were two kings on the island: one called the King of the Hyacinth 112, that is, the country above

an The freedman of Plocamus, who reached the was himfelf-probably a libertus of Claudius, Ceponan in the reign of Claudius, was not a "a" The ruby of Ceyion is proverbial. Pao-Roman, sand Plocamus is not a Roman pame: lino, delication. Pliny, xxxvii. 4.1.

the Ghauts, where the ruby and other precious stones were found; and a fecond king, poffeffed of the remainder, in which was the harbour and the mart, that is, the low country on the coaft, where, in different ages, the Arabians, the Portuguese, Dutch, and English, have been established. On the coast also, he says, there were Christians from Perlia, with a regular Christian church, the priests and deacons of which were ordained in Persia; that is, they were Nestorians, whose catholicos resided at Ctesiphon, and afterwards at Moful: in fact, they were the same as the Malabar Christians of St. Thomas, and occupied nearly the whole of the low country on the coast, while the native sovereigns, above the Ghauts, were Hindoos.

III. Another particular we obtain is, that in the age of Sopatrus. Ceylon was confidered as the centre of commerce between China and the Gulph of Persia and the Red Sea. The Chinese he calls Tzinitzes 312; a most remarkable term, expressing the natives of the Cheen, or Ma-cheen, of the Arabs; that is, either the peninfula of Malacca, or China itself: most probably the latter, because he mentions the fame particulars as Ptolemy and Pliny affign to the Seres: that they inhabit the country farthest to the east, and that there is nothing but sea beyond it.

IV. The commodities obtained from China, or other places eaftof Ceylon, or found 314 there, are, filk 315 thread, aloes 316, cloves,

caryophilla, fandalum, canfora, & lignum

aloes, quorum omnium nihil invenitur in aliis

<sup>123</sup> Tintrian.

<sup>124</sup> Ora xara xulyas los.

ps Mirakin, read uivakar.

climatibus. P. 48. But without any mention 816 So Al Edriffi: Aromata vero que in of cinnamon, though he notices the emerald. eadem Climate [Cevlon] reperiuntur, funt and the ruby.

and fandal-wood 217. These articles are exchanged with Malè, or the Pepper Coaft; or with Kalliana [Tana], which fupplies in return brafs, fefamum-wood 118, and cottons. Its commerce likewife extends to the Sindus, where the caftor, mufk, and fpikenard, are found: and to the gulph of Persia, to the coast of Arabia, and to Adooli; while the feveral commodities of these countries are again exported from Ceylon to the East

V. We are next informed of the feveral ports of commerce, commencing from the Indus, in the following order: Sindus, O'rrotha 10, Kalliana, Sibor, and Male; and if it might be permitted to interpret these Scindi, Surat, Bombay or Tana, Canara, and Malabar, the Periplûs would be in perfect correspondence with Cosmas and Sôpatrus. In Malè, or Malabar, he adds, there are five ports where pepper may be procured-Parti, Mangarooth, Salo-patan, Nalo-patan, and Pooda-patan. Mangarooth is generally supposed to be Mangaloor; and the three Patans, or towns of Salo, Nalo, and Pooda, are so evidently Malabar names, that it is highly probable those who are conversant in the native language of the coast may still discover them, however they have been superfeded by the more modern ports of Calicut, Cochin, or Coulan,

VI. After this follow fome accounts, not equally correct or intelligible; for we are informed, that Sielidiba is five times twentyfour hours fail from the continent; and that on the continent is

<sup>27</sup> Tarbaras. riplûs alfo, and is possibly a corrupt reading in both.

<sup>39-</sup>If we suppose Orrotha related to the 300 Σποκιμικό ξύλα. What this article means Oopara of the Periplus, it is most probably I cannot fay; but it is mentioned in the Pe- on the Tapti, and equivalent to Surat; but there is a part of Guzerat, near Diu, called . Soret. Orrot and Sorret are nearly allied.

Marallo, producing [pearl] ovfters; with Kaber, that affords the alabandenon 200. For Kaber and its produce, I have no interpretation. Marallo I should have supposed to be Manar; but if it is upon the continent, it is Marawar. The five days 121 fail may be fostened, by supposing the departure from the last port visited in Malabar; but standing as it does, it is erroneous,

VII. It is then mentioned that the king of Cevlon fells elephants by their height; and an observation, that in India elephants are trained for war, while in Africa they are taken only for their ivory. This is true on the eaftern coaft; but the Ptolemies and Hannibal trained the African elephant for their armies. Another circumftance is noticed, which continues true to this day; which is, that the importation of horses from Persia pays no duty. Cefar Frederick mentions the fame on the coast of Canara, in his time : and Hyder Alli had his agents dispersed from the Indus to Arabia, to obtain a conftant supply for his numerous cavalry. The horse is faid not even to breed on the whole western side of the peninfula; or if by accident a foal is dropped, it is worth nothing.

VIII. The last circumstance I shall notice is, a conference between the king of Cerlon and Sopatrus, in presence of a Persian, who had boafted of the power of his fovereign: "Well! Roman," favs the king, "what have you to fay ?" "Look," replied Sopratus, " at.

<sup>200</sup> Voffins reads ana; adam, which frome unintelligible t but he informs us it means nutmegs of Banda. We are, however, at prefent on the coast of Coromandel. Hoffman favs, all merces barbaricæ are fo called, as alfo toys and trifles.

Jit Onesicritus - 20 days. Eratofthenes -

Cofmas -The real distance, where the island approaches nearest to the continent, is short of to miles; from Cape Comorin to Columbo, about 180: both too fhort for any of the ancient efti-

" the coins of Rome and Perfia; that of the Roman emperor is of " gold, well wrought, fplendid, and beautiful; while that of Perfia " is an ordinary filver drachma." The argument was conclusive: the Perfian was difgraced, and Sopatrus was placed upon an elephant and paraded through the city in triumph. Vain as this circumflance may appear, two extraordinary particulars attend it; for the king's address to Sopatrus is, ROOMI 322, the term used in India to express any inhabitant of those countries which once formed the Roman empire: and the fecond is, that the Perfians of that day actually had no gold 323 coin, while the coins of Byzantium were the pureft and fineft in the world.

But in addition to these various particulars, Cosmas has left also fome traces of natural hillory that do credit to his veracity; for he describes the cocoa-nut, with its properties; the pepper plant, the buffalo, the camelopard, the mufk animal, &c.; but the rhinoceros, he fays, he only faw at a distance. The hippopotamus he never faw, but obtained only fome of his teeth; and the unicorn he never faw,

372 Paper. If Cosmas had not meant to give the very word of the Ccylonefe, he would have written Popuss. In India the Turks are called Rooms, as possessing Constantinople, the feat of the Roman emperors.

I cannot help transcribing the passage an I found it by accident in Mafcon's Hillory of the Germans:

Mouctam quidam argenteam Perfarum Rex arbitratu luo cudere consuevit. Auream vero neque infi, neque alli cuiniam Barbarorum Regi, quamvis auri domino, vultu proprio fignare licet. Quippe sinfmodi moneta commercio vol. ii. p. 98, from Procopius, lib. iii. cap. 33. See Cofmas alfo, p. 148.

The exclusion of the Persian coin is the very circumftance that took place upon this oceafion; and it should seem, that as the Greek coins of Bactria, &c. had been current when the merchant of the Periplus was at Barugaza, the Roman coin had now the preference, as the Imperial dollars, Venetian fequins, and Spanish piattres, have had a superiority in later times. For the purity of the Roman mint at Conflantinople, fee Clark on Coins.

· I have feen the coins of the fecond Perlian dynasty in M. de Sacy's account of them, and if I recollect rightly, they have the head of vel ipforum Barbarorum excluditur. Mafeou, the kings; but I do not remember whether they are all filver.

but as it was reprefented in brafs in the palace of the king of Abyffinia. I mention these circumfiances to prove the fidelity of the traveller; for truth is as conspicuous in what he did not, as in what he did see. And after this extrast, selected out of his voluminous work, if nothing equally precise or fatisfactory is to be collected out of the Arabian writers, or Oriental accounts of any fort, let it not be deemed prejudice or partiality, if we prefer Greek or Roman authorities to all that can be found in any other ancient history whatsoever.

One part of the queftion has, however, eluded all my inquiries; which is, that I have not found the mention of cinnamon, as a native \*\* of Ceylon, in any author whatfoever. Iambūlus, Pliny, Diofcórides, Ptolemy \*\*; the author of the Periplüs, and Cofmas, are all equally filent on this head, and all derive their cinnamon and cafia either from Arabia or Mofyllon, or more efpecially from the Cinnamon Country, as they term it, on the eaftern coaft of Africa. That the ancients obtained the best and purest cinnamon, we know from their description of it; and that best fort grows no where but in Ceylon. That they might be deceived in regard to its origin, while they went only to Tyre, Sabea, or the coaft of Africa, is natural; but that they should not recognize it in Ceylon, when \*forme merchants went thither in the age of the Periplüs, and in all

<sup>\*\*\*</sup> It is mentioned by Matthioli, and in the irony, tortoile-shell, and other articles; and preface to Ribeyro's Hiftory of Ceylon (Fr. here I finogld have expected to find cinnamon, ed.), that Strabo notices cinnamon from Cey-i if the alkhor had noticed it as a native of the lon. I have not found the nafface; but at illand.

p. 63. I find the regio Cinnamomifera and Tuprobana joined under the fame parallel, which perhaps may have led to fuch a supposition; and again, p. 72. but in the latter passage we have the produce of Taprobana—

<sup>26</sup> The language of Ptolemy is precife: he fays rice, honey, ginger, the beryl, the ruby, gold, filver, and all other metals, elephants and tigers, are found in Tapróbana; but does not mention cinnamon. P. 170. Papróbana.

fucceeding ages down to the time of Sôpatrus and Cofmas, is unaccountable.

No voyagers, travellers, or writers, pretended to have vifited Ceylon perfonally, except Iambûlus and Sôpatrus. I know not how to excuse even Sopatrus, who was only once there casually; but against lambulus, who afferted that he had resided in Ceylon feven years, the charge of fiction is almost direct; no one could have been refident fo long, without feeing cinnamon, the ftable of the ifland; and that if he had feen it, he should not have recorded it among the other particulars he detailed, is incredible; for the curiofity of Greece and Egypt was as much alive to this inquiry, as to any one that regarded the produce of the Eaft.

Dioscórides 316 and Galen knew it not. Dionysius, who lived under Augustus, preserves the fable of Heródotus, that birds brought it from uninhabited iflands. I do not pretend to have explored the whole range of antiquity on this fubject; but the first mention of cinnamon, as the produce of Ceylon, that has occurred to me, is in the Scholiast 327 of Dionysius on this very passage. Whether that

circumftance

316 See Matthioli on Dioscorides, lib. i. capp. 12, 13. and p. 44. where the cafia (our cinnamon) is faid to come from Arabia, and the ancient cinnamon, or fprig of the tree, from Mofyllon. Cafia is described by Theophrastus 370 years prior to Dioscorides; and 199-, by Herodotus, in some degree. Strabo says, Arabia produces cafia, cinnamon, and nard, P. 784. Matthioli adds, p. 45, that Strabo likewife fays, cinnamon comes from the fouthern parts of India; but I have not yet met with the passage. Pliny follows Theophrastus. See also the curious account (p. 45.) that

Trajan, Adrian, Antoninus, Commodus, and Severus; in all which accounts not a word in found respecting its origin from Ceylon: those who would examine it, as now cultivated in that ifland, may confult Thunberg, vol. iv.

127 "Ormider & erfpuder donchrar dent verner "Hafter Outha Signers annuarias neamhair. Birds brought from uninhabited iflands the leaves [rolls] of unadulterated cinnamon. Upon this the Scholiaft writes . . . dounirus mous nous ries mel Tawpolicing. I conclude from this pallage, that the Scholia are not by Euftathius; for the Galen gives of the cionamon in possession of expression here is precise. But Eustathius

circumstance will prove the early date of that knowledge, or the low date of the Scholiaft, must be left for others to determine. William Jones has taken ample notice of this obscurity, and remarks upon the Cinnamon Country of the ancients in Africa, the limit of their geography to the fouth, that it does not produce a fingle specimen of this article in the prefent age, or in any former age, which can be afcertained. Baftard cinnamon is found in Malabar, and true cinnamon, though of an inferior quality, in Sumatra; perhaps alfo in other islands farther to the east; but that the best growth has been constantly in Ceylon, from all the evidence before us, is undeniable.

The spice we now have, which is the kasia of the ancients, was certainly procured in Africa; and the testimony of the Periplûs is direct "st, that it grew there. I flate this with all its difficulties, which I cannot folve; but as there was a voyage constantly performed, from Barugáza to Africa, previous to the Greeks having any knowledge of fuch an intercourse, the only possible folution to be imagined is, that the merchants engaged in this commerce kept the fecret to themfelves: they imported it at Barugáza from Ceylon, and exported it to Sabêa, where it was first found by the traders from Egypt, by Solomon, and the Tyrians; and in a later age, to the ports of Africa, where they dealt immediately with the Greeks, without fuffering by the monopoly of the Sabêans. How fuch a

πέλοχος; that is, the islands in the Erythrean Sea, which is general.

It is not unworthy of remark, that thefe birds of the poet attend Bacchus at his birth, in conformity with Heródotus; and their appearance feems likewife to be in Arabia, from the context. See Dionysii Perieg. lin: 944.

writes, and viorus . . . . The week of Endergan vaxa and the Commentary of Euftathius, p. 267. ed. Ox. 1607, where the Scholiast is described, Paraphrafis veteris Scholiafte ex codice MS. nune primum eruta.

<sup>318</sup> Periplus, p. 8. Es auro yesaras Kagola, And again, yieras b auty Karoia. And both verbs appear precife; for the imports from the East are specified separately.

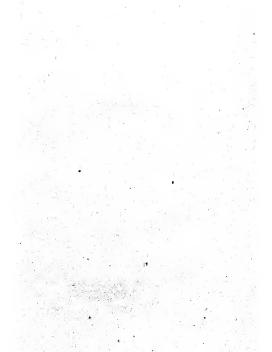
fecret could be kept to long a time, or how the Greeks could be perfuaded that kafia grew in Africa, is, with fuch lights as we have, inferutable; but that it was not the produce of Africa, the general fuffrage of all modern voyagers and merchants is fufficient to prove.

One circumstance worthy of remark is still to be considered; which is, that the merchant of the Periplus mentions kafia only, and never cinnamon. Cinnamon, as we have learnt from Galen, was a prefent for kings and emperors; but the kafia, the canna fistula, or pipe cinnamon, which we now have, was the only article of merchandize in that age, as it fill continues. And now that-Cevlon is in the hands of the English, it would be no difficult matter to obtain the tender fpray of the four principal forts noticed by Thunberg, and compare them with the accounts of Theophrastus. Dioscórides, and Galen. As the species which we have answer to their kafia, it is highly probable that the foray would answer to their cinnamon; for that both were from the same plant, or from different species of the fame, there can be little doubt, as Galen acquaints us, that in the composition of medicines a double 329 portion of kafia answered the same purpose as a single one of cinnamon; and that both entered into the theriac which he prepared for the emperor Severus.

Such is the account that has appeared necessary to be stated relative to the ancient situation of this celebrated island. The modern history of it may be obtained from Baldeus, Valentine, Knox, Ribeyto, Harris, Hugh Boyd 114, Le Beck; Captains Mahoney, Colin

<sup>39</sup> Matthioli, p. 47.
39 Mathhol's, Le Beck's, and M'Kenzie's 7,799: they are all valuable, and worth con-Narratives, are in the Afiatic Refearches, fulting.
vol. vi. p. 425, vol. v. p. 304, and vol. vii.

M'Kenfie, and Percival. And I cannot conclude my commentary on the Periplûs without pleafure from the reflection, that the valuable commerce of this illand is now in the policifion of Britain; or without expressing a most anxious wish, that the country deemed a terreftrial Paradise by the Oriental writers—the repository of cinnamon, cloves, betel; camphor, gold, filver, pearls, rubies, and the other most precious commodities of the world—may find protection, happiness, and fecurity, under the British government. And may the expulsion of the Mahomedans, Portuguese, and Hollanders, be an admonition to us, that conquest obtained by arms can alone be rendered permanent by equity, justice, and moderation!



# S E Q U E L

TO THE

# PERIPLUS OF THE ERYTHREAN SEA.

THE first place that succeeds after leaving Kolkhi, is the Bay A'rgalus , connected with a district inland of the same name. Here, and here only, all the pearls obtained in the fishery at the island of Epiodorus are allowed to be perforated (a) and prepared for market]. Here also are to be purchased the fine muslins called Ebargeitides (b).

Proceeding.

# REMARKS.

(a) This would be in the modern diffrict of Marawar, possibly the Marallo of Cosmas: Tutacorin, the place where the market is now kept, and the pearls taxed, is in Tinivelli, west of Rami-ceram. The earliest modern accounts agree in Tutacorin, while the power was in the native government; the Portuguefe, Dutch, and English, have continued it there. Both Provinces, in the age of the Peripius, were in the kingdom of Pandion; and the Bay of Argalus was nearer Madura, the capital, than Kolkhi, or Solikoore. This was a fufficient reason why the market should be rather on the east, than the west fide of Rami-ceram.

(b) Salmafius reads Σίκδους μαργαρότιδες, muslins sprinkled with pearls. Hudson, & Plin. Ex. 1173. which, notwithstanding the pearls bored at Argalus, seems highly

Πρότορος δυγκαλός δυ κόλοτο κοδρατος.

Sinus Orgalicus, Sious Agaricus, Sinus Argaricus.

Written in Ptolemy, Manar.

NOTES.

+ Happetitus is the reading of Salmafitts, which ought rather to be expended. The text flands represent, for which, perhaps, reserved might be substituted. But perforation is manifestly intended, be the reading what it may.

Proceeding from hence, the most conspicuous of all the marts and anchorages on the coast are Kåmara (c), Podooku, and Sôpatma. To these the traders from Limúrike', and the other provinces north' of Limúrike', refort; and in these marts are found the native vessels, which

### REMARKS.

dubious. If we were to examine a catalogue of muslins at an India fale, we should find many names more strange than Ebargeitides, derived either from the manufactures, or the place where procured.

(c) Where to fix any of these three places is mere conjecture; our course is still east, according to the Periplus; but if Kamara be the Chaberis Emporium of Ptolemy, as Mercator supposes, his Podooka is fill higher up the coast, and our course. ought to be north-east; and if his Manarpha be Maliarpha, or Maliapoor, that place is the St. Thome of Madras; in which cafe Podooka must be fixed somewhere on the coast between the Cavery and Madras, but where, it is impossible to determine, Sopatma is not noticed by Ptolemy. Soro-patma would be the town of the Sore, with some allusion to the Sorre of Prolemy and to Coromandel; but it is all conjecture; and yet, notwithstanding this obscurity, we have manifestly a trade here described, regularly carried on by native traders, between Malabar and Coromandel, without the least notice of Greeks being concerned in it. We have an account that the specie brought by the Greeks to Canara, finally fettled on the other fide of the peninfula; and as we know that in all ages the commerce of India cannot be carried on without specie, so we see here its regular progress to the eastward. We are informedicalfo, that the exports of Egypt to Canara, and the produce of Canara itself, went by the same conveyance to Coromandel; and that the principal articles in return were the muslins, as they are at this day; the merchants from Guzerat and Concan partook in this trade, and possibly those from Scindi. In the whole of this, without being able to specify particular places, we have a general picture of Indian commerce. fo conformable to the accounts of the Arabs, and of the Portuguese upon their first arrival on the coust, that we want no further evidence to persuade us, that the commerce of India was as vigorous untecedent to history, as it is stated at the moment that history commences. The different forts of veffels conftructed in these ports are likewise correspondent to modern accounts: the monoxyla are still

which make coasting voyages to Limurikè—the monoxyla of the largest fort, called fangara, and others styled colandiophonta, which are vessels of great bulk, and adapted to the voyages made to the Ganges and the Golden Chersonse.

To

### REMARKS.

in use, not canoes, as they are fometimes improperly rendered; but with their foundation formed of a fingle timber, hollowed, and then raifed with tiers of planking till they will contain 100 or 150 men. Veffels of this fort are employed in the intercourse between the two coasts; but the kolandiophonta, built for the trade to Malacca, perhaps to China, were exceedingly large and frout, refembling probably those described by Marco Polo and Nicola di Conti. Barthema likewise mentions veffels of this fort at Tarnafari (Masulipatam?), that were of 1000 tons (dolia?) burthen (lib. vi. c. 12. Gryngeus), defigued for this very trade to Malacca. This is the more remarkable, as d'Anville fixes the Mæfolia of Ptolemy at Mafulipatam; and Ptolemy's point of departure for Khruse, or Malacca, at the Godavery, twenty-fix leagues only to the north. From these circumstances there is great reason to conclude that he is right; for Barthema had come from the Straits of Manar to Pulcachat, north of Madras, and then proceeded to Tarnafari, where he embarked for Bengal, Pegu, and Malacca. How extraordinary, then, is the correspondence of the Periplus with the modern course of these navigators, from the Straits of Manar to the Carnatic! and from the Carnatic, passing the wild tribes of Orisia (still favage) between the Godavery and the Ganges; and then proceeding to Malacca, or the Golden Cherfonese! Still however, with all this accuracy, he is in the same error with Ptolemy, carrying the whole course east till he reaches Defarence or Orisia, and then giving it a northerly direction to the Ganges.

The other veities employed on the cost of Malabar, as Trappaga and Kotumba, it is not necessary to describe they have fall in the Eastern Ocean germs, tunities, dows, grabs, galivats, prasus, junks, champans, &c. names which have all been adopted by the Europeans, and which it is no more requisite to distinguish, than explain our own brigs, fromey, fhoners, floops, or cutters, to the Hindoon. But the mainters are board the Indian veities I have looked for in vairs neither Greeks or Arabs are thenimed; but as the manners and religion of the Hindoon exclude one foreigners from their country, it may be prefumed that their featuret were always foreigners, possibly Manys, or even Chinese; for that the Hindoon themselves never used the test a samely in a simple industriable. The whole voyage appears to have been made

To these marts likewise are brought all the articles propared [in Egypt] for the market of Limúrike; and almost all the specie, of which Egypt is continually drained by its trade with Limúrike, finally centres in this coast a swell as all the produce of Limúrike is lifelf.

From the coaft, as the course of the navigators tends to the east round the countries which succeed, the island, now called Palaisi-moondus, but formerly Taprobana, lies out in the open is set of the west (d); the northern part of which is civilized, and frequented by vessels.

#### REMARKS.

by coasting, and so it continued when we first meet with Arabs in these seas; which is the more remarkable, as the monstoon was known, and made use of between Africa and India; and the same monstoon prevails to the east, as well as to the west of Cape Comorin.

I do not find the Tarnafari of Barthema in the modern maps: it might lie between Pelechat and Bengal. But the peculiarity is, that there is an island Tanaseram on the coast of Siam, and the great river so called. Tana-feram is Regio Deliciarum. Volius ad Melam, ilio iii. 7.

Mr. Mariden mentions the velfels that come regularly from Telingana, between the Godavery and Kiftns, to Acheen, at this day. This track answers furficiently for the port affumed by Prolemy, for the passage to Khrusè, and for the Tarmstari of Barthema; but does not determine the situation: it feems, however, to bespeak the same track. Mariden's Sumbarta, p. 216.

(d) The better knowledge of this passage which I have now obtained, obliges me so recall the argument which I had advanced on the meaning of home, in the differention on Eurodepowerfors, p. 17. I now understand that the island lies to the surfl as you sail to the saf from Ceylon.

#### NOTES.

<sup>2</sup> Ess vià Assoirent Israel pure in Alimy trait to the Hapalin, or coast of Malabar. In Polemy, Paralla Sore-tamus; and Sore is to 18 Augusti.

Core, Core-mandel. Core-mandalam of Pac-

<sup>26</sup> μπ/γ Alangen.

\* Χρήμα: Res pisteres amnis generis: Hudlino, the Millet Country. See d'Anville, Anfon. But χρήμα is used repeatedly in the Petiq, 127.

viplûs for specie. "Bes widayes industrus."

<sup>&</sup>quot;. Trapasia, the could of Coromandel, in con-

vessels equipped with masts (e) and fails. The island itself [is so large, that it] extends almost to the opposite coast of Azania [in Africa]. Here pearls, precious "stones, fine muslins, and tortoise-shell, are to be obtained.

[But returning now to the coaft, above Kámara, Podooka, and Sopatma, lies] Mafalia, a diffrict which extends far inland. In this country a great quantity of the fineft muflins are manufactured "And from Mafalia the courfe lies eaftward, acrofs a bay, to Défarène, where the ivory is procured of that foecies" called Bôfarè.

Leaving.

#### REMARK

(e) Tornoverouspinous. I conclude that this means, they were vessels adapted to distant voyages, east or west, in contradistinction to the langura and monoxyla, employed only on the coaft; and the text of Strabo confirms this opinion; Toursocaire ... Lixur δὶ της ηπιίου πλών ήμερου έικοσι, άλλά κακυπλοείν τός ναύς, Φακίλως μέν Ισυστεπολημένος, καστοπειυστρένος Il duportioner typoplar person xuris. The veffels here meant are the monoxyla, built from the bottom without ribs, ill equipped with fails, and heavy failers. In these vessels it was twenty days fail from the continent to Ceylon, but in others only feven : bothdistances are in excess, but they are palliated by Vossius, who supposes the distance to be measured from Covalam in Travancoor, to Pointe du Galle in Ceylon, as Pliny places the port of Ceylon on the fouth fide of the ifland. Pliny has likewife a reference to Strabo, when he fpeaks of twenty days fail from the Prafii to Ceylon, in the paper-ships of Egypt, and seven in the Greek vessels. Prasii is esidently a corrupt reading; and how far paper-ships, or ships composed of the biblos, should venture on these voyages, is dubious. That they were used on the Nile is true: Radicibus panyri incolæ pro ligno utuntur. Ex ipio quidem papyro navigia contexunt. (Plin. lib. xiii. 2. & v. 22. See Salmal. 1110.) It is inkewife to be noticed; that Ironwaran, using is a reading of Salmafius for managering, in the Bafil edition; but Voffius reads it no which incoming, they perform it generally in twenty days: This correction accords with Pliny, and approaches neaver to the text, corrupted as it stands; in fact, Salmasius takes Iron manufacis from Strabo, and Vossius musica incom

NOTES.

<sup>&</sup>quot; Transparent, rhinoceros, or karkandam, in the same coun-

<sup>&</sup>quot; The Arabs of Renaudot mention the

Leaving Défarène the course is northerly, passing a variety of barbarous tribes; one of which is styled Kirrhádæ, a savage race, with nose slattened to the face. Another tribe are the Bargoofi; and others (f), distinguished by the projection of the face like that of the horse, or by its length "from the ferehead to the chin; both which tribes are said to be cannibals.

After paffing thefe, the courfe turns again to the caft, and failing with the coaft on the left, and the fea on the right, you arrive at the Ganges, and the extremity of the continent towards the eaft, called Khruše [or the Golden Cherfonefe].

The Ganges is the largest river of India: it has an annual increase and decrease, like (g) the Nile; and there is a mart on it of the same name, through which passes a considerable traffic, confishing of the Gangetic (b) spikenard, the Gangetic mullins, which are the finest manufacture of the fort, nearls, and betel.

In this province also there is said to be a gold mine, and a gold coin called Kaltis (i).

Immediately

### REMARKS.

(f) Whenever an author arrives at the Country of Montters and Authropophagi, I conclude he is at the end of his knowledge: authropophagi, however, there are fill failed to be in the Andaman Illands, and the fact is certainly proved in New Zealand, but the varieties of the human (pecies, with horfes' heads, with tails, or with heads which grow beneath their fhoulders, fill remain to be diffeorered. Of the Kirrbadar, or Défarène, I have found nothing; but I place the latter in Oriffa. The ivory called Bolize may be the form of the rhinoceros, much covered in the Eafl, and the animal is formetime called his peopless. Bog unicornis.

(g) The folifitial rains produce the same effect on both rivers.

(b) See the catalogue. Nassess the regular importation of this odour, is from the Ganges or Bengal, whither it is to this day brought from Thibet.

(i) We have no account of a gold mine; but a gold coin called Kalteen, or Karteen, is fill known in Bengal. Af. Ref. vol. v. p. 269.

Immediately after leaving the Ganges, there is an island in the ocean called Khrusé (å) or the Golden 11ste, which lies directly under the riling sun, and at the extremity of the world towards the east. This island produces the finest tortoise-shell that is found throughout the whole of the Erythrean Sea.

But still beyond this, immediately under the north (1), at a certain point "where the exterior sea terminates", lies a city called

# Thina,

in true rozion. Emis is an infertion

(2) Khrusê is mentioned as an illand by Mela, Dionyfus, &c. as a Cherfonce by Polomy. If may be Aray, Pegy, or Slam, for they were all oftennious of gold; a bus, placed as it is here, next to the Ganges [Lar ând and are in this fituation, whom our author mentions previous to the Ganges; for Kirthâde zoars fome refemblance to the Hidrange or Kadrange of the Arabs, which feems to be Aracan; and if Aracan may be extended to comprehend the little diffitle of Chiigong, it is contiguous to the Ganges, or rather to the Megna. Prolemy adds, that the beft bed is procurable in this province (for Differtaion); and it is from hence that the Sefates, or Béfade, who are the Tartars of Laffa or Thibet, carry that article to the northern provinces of China.

(f) This firange passage I have rendered literally, but it is unintelligible without a comment. [Under the sun'd) implies the same as is repeated afterwards, under the Leffer Bear. [Where the fea terminates autward-] intimates the existence of a circumanbient occan, little the Marc Tenebrotian of the Arabian geographers; to comprehend which, we must imagine the Golden Cherlonest the last region cast of the known world; but still that there is an ocean beyond it, surrounding the whole earth, and that Thian lies inland, in a country that is wasted by this ocean. This notion, entangled as it is by an erroneous fituation, and constude expression, still intimates, in accordance with Mela and Pliny, that Thian is the last country of the known world, and that there is nothing beyond it but the fea. If the author had an idea or a sphere, this fea would extend to Spain, which is Strabo's conception; if he thought the earth a flat furface, this fea is the ocean that furrounds it.

<sup>&</sup>quot; The Golden Continent and the Golden

Island are evidently diffined here, as the Golden of Salmafius's.

Province and Golden Cherionele are in Proleave.

The Mare Tenebrofum of the Arabs.

Thina ", not on the coaft, but inland; from which both the raw material " and manufactured filk are brought by land, through Bactria, to Barugáza, or elfe down the Ganges [to Bengal], and thence by fea to Limurike, or the coast of Malabar (m).

To Thina itself the means of approach are very difficult; and from Thina some few [merchants] come, but very rarely; for it lies Tvery far remote | under the constellation of the Lesser Bear (n). and is faid to join the confines of the Euxine Sea, the Caspian, and the Lake Mêôtis (o), which issues at the same mouth with the Caspian into the Northern 10 Ocean.

On the confines, however, of Thina, an annual fair or mart is established; for the Sesatæ, who are a wild, uncivilized tribe, affemble there with their wives and children. They are described as a race (p) of men, fquat and thick " fet, with their face broad, and their

### REMARKS.

(m) See the Differention. All that went by land to Bactria, paffed down the Indus. to Guzerat; all that came through Thibet or Lassa, passed down the Ganges or Brama Putra to Bengal.

(a) See the Differtation.

(a) For this inconfiftency confult the Differtation.

(#) If these Sesarge are the Besadge of Ptolemy, which is generally allowed by the commentators from the attributes affigued to them by both, the Beladæ of Ptolemy, are placed north of Kirrhadia or Arracan, and correspond very well with the Tartars. of Laffa, who might naturally be the carriers between China and Bengal. But why the betel-leaf should be carried in this form from Arracan to China, in order to be-

made-

## the world.

2 . . . The Enge lords Book and i retur Maτρόπολις, έπις Θείναι προσωφορέσεται\* όμου τῆς ἐγνωσ-In this Marcian is more perspicuous than ulong you and develope rupy assers. Marcian Herael. Ptolemy, whom he ufually follows, Hudion, p. 14. " To l'esev.

Theine, the capital of the Sine, is the boundary between the known and unknown part-of 30 Τοίς αντιστραμμίκης μίρεση. " Kolobei.

their nofe greatly deprefied. The articles they bring for trade are of great bulk, and enveloped in mars "or facks, which in their outward appearance refemble the early leaves of the vine. Their place of affembly is between their own borders and those of Thina; and here spreading out their mats son which they exhibit their goods for fale], they hold a feast" [or fair] for several days, and at the conclusion of it, return to their own country in the interior.

Upon their retreat, the Thinz, who have continued on the watch, repair to the fpot, and collect the mats which the strangers left behind at their departure: from these they pick out the haulm, which is called PETROS, and drawing out the fibres, spread the leaves double, and make them up into balls, and then pass the fibres through them. Of these balls there are three forts—the "large, the middle-sized, and the small: in this form they take the name of Malábathrum; and under this denomination, the three forts of that

#### REMARKS.

made up with the Arcka nut, and then returned to India by the Chinefe under the demonination of Malibahrum, is difficult to comprehend. The difftication between the leaf and the nut feems to be preferred in petros and malibahrum; for that petros is the bettel, or better, cannot well be doubted, when it is defiribed as refembling the young leaves of the vine; for the bettel is a delicate species of the petrop are the petrop in the whole, a deferription of that mode of traffic which has always been adopted by the Chinefe, and by which they to this hour trade with Ruffia, Thibet, and Ava. See the Differention.

NOTE

<sup>&</sup>quot;Tapardones, furpells, literally mats made of These terms are applied by Pliny to the further.

"The word, in the original edition, was was considered specifically as the leafs, how aspectices; for which Salerinsus reads fractions.

I propole Δηφηρίζουν, they deal or traffic. Hence it became confounded with the betel

" Αλφίσφαιρα, μετροφαιρα, μετρόφαιρα, μετρόφαιρα, " leaf, always used with the Arcka not.

that malticatory are brought into India by those who prepare (q) them  $^{2}$ .

All the regions beyond this [towards the north] are unexplored, either on account of the feverity of the winter, the continuance of the froft, or the difficulties of the country; perhaps also the will of the gods has fixed these limits to the curiofity of man.

#### REMARK.

(g) lead to surpose forms similar Thode who manufacture them—who are thefe bir the Sine? If I I had found that the Chinefe brought them by fee, as they did to Ceylon in the time of Cofmas, my evidence for the performance of the vorge; either to or from China, would have been complete; but on this flender ground I dare not affert it, nor of a think is probable, for the bettel might come down the Ganges as well as lik. The whole feems to be in irremediable confusion, with particulars founded our truth, and a total that is inconsistent.

NOT

<sup>್ &</sup>quot;Τπό τῶν κατιργαζεμώνω, rendered by Salmafius, Those who finish them, or make them upfor exportation.

## DISSERTATION L

ON THE SINZ, THE SERES, AND THE TERMINATION OF ANCIENT GEOGRAPHY ON THE EAST.

- I. The Name of China.—II. Sina of Ptolemy in Siam, Sina of other Authors, and Street the fame; Periplia, Extactifibenes, Mela, d'Anville.—III. Relative Situation of the Seres, evith refpect to Scythia, and India beyond the Ganges.—IV. Capital, Sera Metropolis.—V. Seres diffinguished as Manufacturers of Silk.—VI. Intercourse between China, India, and Europe; Route from Ptolemy, Maes the Maccedonia.—VII. Modern Route—Marco Polo, Rubruquis, Carpin, Goez.—VIII. Route of the Sésata from Arracan to China—Dionysius Pericete.—IX. Intercourse by Sea—Mela, Rajah of Pliny, Cosmas Indicoplessiples.—X. Golden Chessone, Voyage from Ceylon libither, Goost of Coromandel, Mashipatam, Ganges, Arracan, Ava, Siam, Cattigara.—XIs. Longitudes and Latitudes of Ptolemy, bowever in Execsle, shill the Cause of modern Discovery; Navigation towards the West from Spain—Roger Bacon, Columbus, Map of Ptolemy; Eulogy of Ptolemy.
- I. THINA, Sinæ, and Tziniftæ', fo nearly refemble China and the Chinefe, that upon the first view of these appellations, we are naturally led to conclude that they are the same. Serica

Tzina, and Tzinitza, and Tzinitza, are Chinete, as Greek letters can; and of the the orthography of Cofima Indicopleufics, country meant there can be no doubt; for he and approach as nearly to China and the mentions the filk brought by land from that country

alfo, the Country of the Scres, which produces the filk, and the only country which originally produced it, is to pre-eminently and characteriffically the fame country, that if Ptolemy had not affigued two different politions for the Sinæ and the Scres, there would probably have been no diffute upon the question at the present hour.

But it is faid, the Chinese themselves know nothing of this name. This, however, is of little weight in the subject of our inquiry; for the same nation in Europe which we call Germans, are Ryled Almains by the French, and Teutich', or Teudesch, by themselves. The Jesuits who were in China have, however, endeavoured to find an approach to this sound in Tan-djin, Han-djin, the people of Tan' or Han, two of their early dynastics; and in Chen-si, one of the principal provinces: but upon these similarities there is little dependance; for it is generally allowed, that the principal native appellation is Tchou-koue', the Central Kingdm; and every nation in the world, from vanity, from relation to all the regions around, or from ignorance, is entitled to the same distinction.

But let us first inquire, how this name was brought westward? Manisestly not by the north, or by land, for the name obtained by that conveyance was Kathay and Kitai; but by sea it was first heard of—by the Macedonians, in the form of Thina; by Cosimas, in the form of Tzinistæ; by the Arabe', as Cheen, or rather Ma-cheen,

country to Perfia, agoo miles; but he fays, the passes by feet is much longer. And then adds, Husariba it Tolorous old whiten old karrous, Beyond the Tainista there is no navigation, or habitable country. Montfaucan, Nov. Col. Patrum, tom. ili. p. 138. See infra. No. 8.

<sup>3</sup> D'Anville, Antiq. de l'Inde, p. 179. 4 Other names occur in Ifbrandt Ides, the Tefuits' Accounts, &c. &c.

<sup>&#</sup>x27; Primi Arabes Seras cum Sinis confuderunt quorum errorum postea secuti sunt alii. Vossius ad Melam, lib. i. c. 2, note 20.

<sup>4.</sup> And hence Dutch in our own language.

Great Cheen, or Cheena; and by Marco Polo, as Cin, that is Cheen in the mouth of an Italian. The Portuguese likewise, who came from the West, acquired the fame found in their progress towards the East; and from them Cheena, or China, has descended to all the nations of Europe.

Cheen therefore, by all these several navigators, was obtained as they advanced towards the East; and the first country that bears the refemblance of the sound is Cochin-china, called by the natives, and by the Chinese, Kao-téchii-chin; by the Jesuits, Tchen-tchen; and by the Arabs, Cheen; the Sinia Sinarum of Al Edriss. If then we reflect that all the kingdoms contained in the Great Chessonele, except Malacca", partake of Chinese manners, habits, policy, and government, it was a natural consequence that the Arabs, when they first reached China, the superior and sometimes the sovereign of them all, should receive the name of Ma-cheen, or Great China, in comparison with these inferior kingdoms.

It is impossible to prove that these appellations are as ancient as the era of Alexander, because history is signet; but the acquisition of the same sound by all the nations which advanced by sea from the West towards the East, from the time of Alexander to the date of the Portuguese discoveries, is a strong presumption in its savour.

The first mention of Thina by the Greeks, is in the Treatise of Aristotle, de Mundo (if that work be his); but the full notice of it is by Eratosthenes, and as Eratosthenes lived under the second

<sup>\*</sup> Marco Polo fays, Mangi is called Chia in Zipanga, or Jupan. This may be an error, for Marco never was in Japan, but it is a sphatesteal.

\*\*The Malaya was (upper to their language, is for Marco never was in Japan, but it is a shiphatesteal.

\*\*Arthold ded A. C. 322; Erstoftlenes. Lib. ii. c. 4. A. C. 322; Erstoftlenes. Lib. iii. c. 4. C. 322; Erstoftlenes. Lib. iii. c.

Ptolemy, his mention of Thina is early enough to suppose, that the Greeks had no knowledge of so distant a region before Alexander, and knew it then only in consequence of his expedition.

Though the Macedonians proceeded no farther cast than the Indus, they certainly acquired a knowledge of the Ganges and Ceylon: this we learn from history; and if their inquiries went farther, they had Persans, Indians, and Arabians, in their army, from whose report they might gratify their curiosity. If Aristotle, therefore, had heard of Thina, this must be the source of his knowledge; or if the Treatsle imputed to him be not his, the knowledge of Eratosshenes must have been acquired, either from the same source, or from those who sailed on board the sleets from Egypt, and met the Arabian, Indian, or Persan merchants in the ports of Sabéa.

Let us suppose, then, that the whole of this was report, and let us conjecture from analogy by what we know, in a later age, to be fact. It would amount to this—that there was a trade between Arabia and India, carried on every year; that the merchants from Arabia met others on the western coast of India, who came from the eastern coast; that those on the eastern coast traded to a country fill further east, called the Golden Chersonese; and that from the Golden Chersonese there was another voyage still to the east, which terminated at Thina; and that beyond Thina there was no proceeding farther, for it was bounded? by the ocean which had never hene explored.

A report, coming through no less than five intermediate channels, like this, would doubtles be loaded with much error, fable, and

<sup>9</sup> In this, Mela, Pliny, Dionyfius, Cofmas, and the Periplus, are all agreed. .

inconfiftency; but that by some method or other it did come, is undeniable; for the map of Erasosthenes is recorded by Strabo. It actually contained Thina at the extremity of the world east, bounded by the ocean: it was placed in the parallel of Rhodes, in lat 36° north; and what is most extraordinary of all is, that this parallel passes through the present empire of China, within the great wall. I shall not build more on this than it will bear, but a reference to M. Gosselin's Map, delineated on this principle, will prove the fact; and this fact cannot be founded on imagination, or arise from fortuitous coincidence: there must have been some information on which it stands; and the wonder is, not that it should be attended with many difficulties and inconfishencies, but that, after passing through so many hands, it should retain so much truth.

IL SINÆ OF FTOLEMY IN SIAM, SINÆ OF OTHER AUTHORS, AND SERÊS THE SAME, PERIPLÜS, ERATOSTHENES, MELA, D'ANVILLE.

The Thina of Eratofthenes, however, is not to be confounded with the Thina or Sing of Ptolemy; for thele, whether we place them, with d'Anville, in Cochin-china; or with Voffins and Godfellin, in Siam, are in a very different latitude and polition. Their country does not face to the east, but to the west; and their latitude is not 36° north, but 2° 20′ fouth . But the Thina of Eratofsthenes and Strabo, is the Thina and Sing of the Periplis, of which we have a certain proof; because the author says, that filk

D'Anville, by placing them in Cochinchina, makes them face to the cast; but in "This is very well argued by Golfellin. this he oppofes Mercator (who had no tyfen. Geog, de Grees, p. 143.

is the produce of their country. This country, therefore, is the Sérica of Ptolemy; and in this fenfe, the Sinæ and the Sères are the fame, that is, they are both Chinese.-We must now advert to the groß error of the Periplûs, which places Thina, the capital of the Sina, under the constellation " of the Lesser Bear; that is, in the age. we refer it to, within twelve degrees of the Pole; a climate which. so far from producing the filk-worm, must be uninhabitable by man. How this error arose, must be explicable only by conjecture; but it appears to originate from one of two causes, which are perfectly different and diffinat: for, first, we find the ancient geographers very observant's of the disappearance of the Polar Star, as we advance to the fouth, and equally attentive to its re-appearance as we approach again to the north; it might happen, therefore, that the navigators who went to China, might have observed the loss of the Polar Star in the Straits of Malacca, and the recovery of it as they approached the coaft of China; and this observation, conveyed through a multiplicity of reporters, may have caused the confusion between a latitude which lay under the Leffer Bear, and a latitude where the Polar Star became vifible.

But if this cause should be thought too scientific to have given rife to fo grofs an error, there is a fecond, much more probable and natural; which is, that if we suppose a delineation of the habitable world, formed upon the principle of that which I obtained from

" Gossellin notices the approach of this lomon, makes the diffance 17! degrees. " See Pomp. Mela, lib. iii. c. 7. In aligna parte ejus [Indiae] neuter fepteutrio apparent. See also Marco Polo, as he comes up from Ceylon along the coaft of Malabar. Lib. iii. c. 23. Ramufio.

flar to the Pole. Ptolemy fays, in his time it was 12 degree's from the Pole : Missas Active . . . . Tyato; di ves deus 'Arab arriver all mone place: 1 6. Lib. i. c. 7. And Goffellin, Geor. des Grees, tom. ii. p. 127. in the time of So-

Al Edriffi " in the former part of this work, or like the Borgian" Table in Sir Joseph Banks's possession, the degrees of longitude diminish so hastily as we approach towards the north, that they do not leave room to display all the regions which such a geographer. as our author, must find it requisite to crowd into the space that he has to cover. This feems to be a natural fource of the error which we find in the Periplûs; and this opinion is confirmed by what he immediately fubjoins: "Thina lies," fays he, "at the Leffer Bear " itself; and it is said to join the limits of Pontus", which are to-" wards' the north, and the Caspian Sea, with which the Palus " Mcôtis is connected, and iffues into the ocean at the fame " mouth." Here, befides the error common to many of the ancients, that the Cafpian Sea was open to the Northern Ocean, we have a variety of other miftakes; added to which, China, Tartary, the Caspian, the Euxine, and Palus Mêôtis, are all huddled together in such confusion, that nothing but the construction of a map, on the principles here supposed, could produce.

Whether these excuses will avail in savour of an author, whose errors I with not to extenuate, but explain, must be left to the judgment of others: beyond Ceylon; all he knew was from report; and on report only procured, first by the Macedonians, and afterwards by Megasthenes, Daimachus, Dionysus, and the merchants of Egypt, all the knowledge of the ancients must be founded. But whatever may be the error of position, there can be no mitake about the country intended. The filk fabric itself, and the mate-

<sup>14</sup> The same circumstance occurs in Sanuto's Map, in the Gesta Der sur firances. A little at the N.E. of the Capian Sea anotice is intered, Incipit Regnum Cathay.

<sup>&</sup>lt;sup>15</sup> In that map, Pohine is almost as near Chine as it is to England.
<sup>16</sup> Perhaps the Euxine.

<sup>17</sup> Arter audious.

rial " of which it is made, are both specifically applied, by the name of Sèrica, to the country of the Sinæ. This identifies them with the Sères and Thina of the Periplius; and that the Sères are the Chinese, is generally allowed by the geographers of the present day.

D'Anville had " certainly no pre-difposition in favour of this opinion; for in coming through Scythia towards the Sères, he passes the country of the Eighurs from five to ten degrees west of China: and in that province he finds a tree which produces a fruit like the cocoon of the filk-worm. Here, perhaps, his own judgment would have induced him to paufe; but he yields honeftly to conviction, and proceeding caftward into China, he fixes upon Kan-cheou, just within the boundary of the Great Wall, for the Scra metropolis of Ptolemy. But there was in reality no ground for hefitation, nor any cause of solicitude for fixing on Kan-cheou, rather than Pekin, or any other great city, which might in that age have been the capital of the North; for the acquifition of general knowledge is all that can be expected in a question so obscure and remote; and the aftonishing approach to accuracy which we find in Ptolemy, is one of the most curious geographical truths bequeathed to us by the ancients; for the latitude " of his Sêra metropolis is within little more than a degree of the latitude of Pekin, and nearly coincident with that of Kan-cheou. Whether, therefore, we chuse one of these, or whether there was any other metropolis in that age, we are equally in the country of the Sêres, and the Sêres are Chinese. They are the first of men, says Pliny", that are known on

<sup>18</sup> Gias, ἀΦ το τι τρικ και το δίλακι το Στρικίο. . . Latitude of Serg metropolis 38° 36' 3 of Pekin 39' 45'.

Antiq. de l'Inde, Supplement, p. 233. "Lib. iii. c. 17. or 20 Hard.

commencing our inquiries from the East, and their country fronted to the east. That there was nothing beyond them but the ocean, was the general opinion of the ancients; for, according to Strabo, " fuppofing " the world to be a fphere, there is nothing but the " immensity of the Atlantic Ocean, which should hinder us from

" failing from Spain to the Indies upon the fame parallel."

# III. RELATIVE SITUATION OF THE SERES, WITH RESPECT TO SCYTHIA, AND INDIA BEYOND THE GANGES.

IF the Sêres, then, are the first nation of the known world " commencing from the east, let us next inquire into their fituation relative to the countries north and fouth. On this head, Mela and Pliny both agree that their boundary on the north 4 is Tabis, and Taurus on the fouth; that all beyond them north is Scythia, and all beyond them fouth, is India east of the Ganges. By the latter expression they mean, that the whole country, from the Ganges to the Eastern Ocean, is called India, comprehending all the regions in the Great Peninfula 25, which commences at the Ganges, and part also of the southern " provinces of China itself. What then are Tabis and Taurus, but two promontories advancing into the Eastern

torium, Sères. P. Mela, iii. 7.

<sup>22</sup> P. 64. In respect to the parallel, this would have been true between Spain and China.

<sup>\*</sup> In ea primos hominum ab oriente accepimus, Indos, Seras, Seythas. Spectant merid'em Indi, septentrionem Scythæ usque ad Cafpium. Mela, i. 2.

vi. 17. or 20 Hard.

<sup>&</sup>quot; By the term of the Great Peninfula, I mean all the countries included in a line drawn from the mouth of the Megna, or Brallmaputra, to China, as the northern limit, and the Straits of Sincapura as the fouthern ; comprehending Ava, Arracan, Pegu, Siam, Malaya, Seres primi kominum qui nalcuntur. Plin. Camboya, Cochin china, Lao, and Tonkin.

<sup>15</sup> The northern part of India, extra Gan-24 Inter Tabin et extremum Tauri promon- gem, terminates with Taurus, Strabo, p. 68.

Ocean,

Ocean, and marking the limits of the Ancient Seres? Scythia, according to Pliny, commences at the iffue of the Culpian Sea into the Northern Ocean, and extends all round the continent, fronting north and north-eaft", till it comes to Tabis, which divides it from the Seres; and what is meant by Taurus may be discovered in Strabo, who informs us, that Eratofthenes prolonged Taurus from the Bay of Issus in the Mediterranean, across the whole continent of Afia, dividing it by the same parallel as of latitude, till it terminated on the Eastern Ocean, that is, the Sea of China. At the termination was Thing, on the same parallel as Rhodes, which is 26° north : and this parallel, if we suppose it to be correct, would embrace all the northern part of China, between latitude 3 36° and 40°: that is, if we fix the fouthern limit at the promontory of Taurus, in 16°, and the northern at Tabis fomewhere about 40°. A reference to M. Goffellin's Map 10, delineated in conformity to the idea of Eratofthenes, will explain this better than words; and whether these promontories be real or imaginary, this is the hypothesis or fystem of the ancients. If Tabis has a representative, we might suppose it to be the termination of the Great Wall on the Yellow Sea, which divides China from Tartary; but the Wall does not end in a cape, and this must be left wholly to conjecture.

entom.

" Pliny, vi. 17. or 20 Hard. aftivem ori- Periplus, at Kabul ; by the route of the Sefatai, or Befadai, in Laffa or Thibet; but

conric directed, never croffed it back again mian. towards the fouth, but proceeded through . " Seres media ferme Eoz parte incolunt, Tartary to China. By Ptolemy's route, they Indi, et Scythæ ultima. Mela, i. 2. palled it in Hircania; by the route of the . " Geographie des Grecs.

<sup>&</sup>quot;The cause of this supposition is, that the Alexander, who came out of Sordiana to merchants who croffed this great belt of Afia, the Indus, croffed it from north to fouth over at whatever point, it might be where their the Paropamifus, perhaps at the Pals of Ba-

#### IV. CAPITAL, SERA METROPOLIS.

In regard to the capital, the Sêra Metropolis of Ptolemy, though it is not indifferent where we place it, yet it may be thought hazardous to maintain that it is Pekin. Pekin, however, or the Northern Court, is one of the oldest cities in China; it is fituated near the Wall, and well adapted to form a frontier town against an invasion of the Tartars, the only enemy which the empire has had to fear in every age. It is remarkable also that Ptolemy, in one place 31, calls Sêra the capital of the Sing, which makes it correspond with the Thina of the Periplûs; and this fo effentially, that if the great error of the author in carrying it to the Leffer Bear could be fet afide, Thina and Sêra Metropolis would be identified. On account of that error, I do not infift upon this; but, upon the whole, the Sêres of Ptolemy coincide with the Sêres of Mela, Pliny, and Dionyfius; and his latitude of the capital advancing fo nearly to the parallel of Pekin, is one of the most illustrious approximations that ancient geography affords.

Without affecting precision, we have now a position for the Sêres. in the northern provinces of China; and this deduction, as it is founded on the information of the ancients, is not much controverted by the moderns. But we have another characteristic of the Sêres, derived from the produce of their country, which is filk:

JE And not in one only. Lib. i. c. 11, Kal edition of Hondius 1605, which I use. The την από τὰ λιδίου πύργο μέχη Σκέρες τῆς τῶν ΣΙΝΩΝ Sêres and Sinæ are again mentioned in conμοτροστόλιως. Where the Latin text runs, Ulque junction, lib. vi. c. 16.; and through the Singe ad Serras quæ-Serum eft metropolis. Whe- a line may be drawn, with the conduction was ther Eng, therefore, be a falle reading, must vy about you meane; and thele are manifeltly

<sup>.</sup> be left to the critics; but fo it flands in the not the same as his Sime in lat. 2° 20' fouth.

this beautiful fabrie we know, from the Chinefe themfelves, was the original manufacture of their country—fpecifically their own, by the prerogative of invention; and though communicated to other countries in their neighbourhood, and from the first menuton of it, procurable in the ports of the Golden Cherfunese, at the Canges, and on the coasts of Coromandel and Mulabar, fill was it so exclusively and pre-eminently the attribute of China, that the Sinze were, from the very circumstance, denominated Seres, or Silk-worms, by the Greeks. D'Anville was fully aware of all the authorities "that support this fact, and yet he objects, that they were styled Seres before it was known that the material itself was the production of an infect.

### V. SERES DISTINGUISHED AS MANUFACTURERS OF SILK.

The milakes of the ancients on this subject; the fluctuation of the first reporters, who sometimes consolunded it with cotton, and the opinion which long prevailed, that it was obtained from the bank or leaves of particular trees, have been sufficiently discussed in

2º Eurs, (En silvers pirackar, it loans Those the Figures and of theripson. He fyrchism in voce. Seres, animals that fpin the fills thread, or the name of the nation from whence the genoise fills comes: Observance expresses express a web wholly of fills, in contrast to the mixture of fills with other materials, in the manufactories.

of Tyre, Berýtus, &c. Συμόν, στιδοίκιο τῶν γινώντῶν τὰ Συμτώς. Σᾶρις γὰρ ὁι ακιδοίκες. Hefych.

Sêron, the worms that produce the filk; for Sêres is equivalent to worms. See also Paufanias, Eliac, ii, sub fine. D'Anville has all these authorities. Antiqde l'Inde, p. 233. And Vossius cites Pollux, Servius, and Simplicius, as all informed of the worm; but certainly the whole process was not known till Justinian's time.

<sup>30</sup> Ubiquinque apud veteres aut lini aut lane aut byffi Indici mentio fit, intelligendum id effe de Serico. Voffius ad Melam, lib. iii. c. 7.

The carding it from the leaves of a particular tree, and using water to facilitate the operation, occur in a variety of authors; that is, the cocoon was taken from the mulberrytree, and wound off in water. numerous writers on the fubject; but that the Arabs had met with it in India before there were any Greek fleets in the Eastern Ocean, can hardly be doubted, by those who read that the Macedonians obtained their first knowledge of it in the countries bordering on the Indus. Hither it must have been brought in that age, either by the trade which paffed between Patala and Malabar, or by the caravans through Scythia, on the north; for that in fo early an age it was manufactured in India can hardly be admitted, when we observe that the author of the Periplûs, four hundred years later, mentions it in Malabar, not as a native production or manufacture, but as an article brought thither from countries farther 24 to the cast. But in regard to China, his account is very different; for there, he favs, both the raw material " and the manufacture were obtained. The pre-eminence in this respect is still due to the same country: for notwithstanding that almost all the nations of the East, and many in Europe, now breed the infect and weave the fabric, China is still the Country of Silk; the greatest quantity is still produced there, and of the best quality: it is the general clothing of the nation, and its fuperabundance still allows of a vast exportation to all the countriesof the East, and to Europe itself.

In the course of this investigation, then, we have learnt from ancient authorities, that the Sêres are the Thinæ of Eratôthenes—the Sinæ of the Periplûs; that their country lies between Tartary, on the north, and India extra Gangem, on the south; that it is the remotest region of the towards the east; that it is bounded on its

digeras in rus few rówum. P. 33.

P. 36. Men do not hefitate to go to the estrantity λω μέτωξαι he τὰ ΕΣΧΑΤΑ τὰς γῶς τόμη of the world for the purchase of the filk hατορος ἐκτγες χάιτη οἰκ ουιδει διοδεύ. Cofinas, thread.

eaftern front by the ocean; that the ocean extends (in their opinion), without interruption, on the fame parallel to the coaft of Spain; and that filk was brought from this country, where it was originally found, to India, and out of India, by the Red Sea, into Egypt, and from thence to Europe.

## VI. INTERCOURSE BETWEEN CHINA, INDIA, AND EUROPE; ROUTE FROM PTOLEMY MAES, THE MACEDONIAN.

But if filk was brought from the Séres to India, there were but two means of conveyance—by land, or by fea. Both are specified in the Periplûs; for the author informs us, first, that the raw material and the fabric itself were conveyed by land, through Bactria, to Barugáza or Guzerat, and by the Ganges to Limúrikè.—But, omitting this for the present, let us examine what is intended by the route that is described through Bactria to Guzerat. A reference to the map will immediately shew us, that Balk, or Bactria, lies almost directly north of the western sources of the Indus; and as we know that the caravans at this day pass out of India into Tartary at Cabul'', so is it plain that this was the usual course of communication, from the earliest times; and that the silks of China then came the whole length of Tartary, from the Great Wall into Bactria''s that from

by license they fend fome ten or lifteen merchants to do businers, who being returned, they may fend as many more; but by no means can the whole caravan cuter at once. William Finch in Purchas, vol. ii. p. 434-\*\* And by another caravan, to Palibothya

And by another curvan, to Frinchise
 on the Canges. Kab δτο λο μότο led τηλ βερτημ.
 αυχι Ιστυθό Ιστι έδος διλ τίλ λόδου πύργω, άλλιλ καί τι τόν Ιοδικός λέλ Παλλαμάδημο. Ptolem. lib. i.
 cap. 17.

<sup>&</sup>lt;sup>10</sup> The whole patings, as it fands in Parchas, is curious: —Beyond Cabul is That Caus, a city of Buddenfin (Badshiam). From Cabul to Culine, a with the carawa, is formet two or three months Journey. . . . a chief city of rated in this territory is Yer cann, whence comes much fill, mode, and rhobarly all which comes from China, the gate or entrance where-of is fount two or three months Journey from the China China.

Bactria they passed the mountains to the sources of the Indus, and then came down that river to Patala or Barbárikè, and from hence to Guzerat.

Ptolemy " has given us the detail of this immenfe inland communication; for, beginning from the Bay of Issus in Cilicia, he informs us, from the account of Marinus, that the route croffed Melopotamia, from the Euphrates to the Tigris, at the height of Hierapolis; then through the Garamæi \* of Affyria, and Media, to Ecbatana and the Caspian Pass; after this, through Parthia to Hecatompylos; from Hecatompylos to Hyrcania; then to Antioch in Margiana; and hence, through Aria, into Bactria. In this province, the line of Marinus falls in with that of the Periplûs; and from this it passes through the mountainous country of the Kômédi "; then through the territory of the Sacæ 42 to the Stone Tower 43, and to the station of those merchants who trade with the Sêres; from this station the route proceeds to the Cafii or Cashgas, and through the country of the Itagûri, or Evghurs of d'Anville, till it reaches Sêra Metropolis, the capital of China itself. The extent of this communication. which is in a right line upwards of four thousand miles, would have been protracted by the estimate of Marinus " to double the space " to which it is reduced by Ptolemy, and yet Ptolemy makes it ninety degrees, or upwards of fix thousand miles. But contracted as it is

<sup>3</sup> Lib. i. c. 12.

<sup>4</sup>º Aramæi?

<sup>4</sup> I have little hesitation in supposing that the Cômêdi are to be placed in Badakihan, as mountains are the attribute of the country.

<sup>43</sup> The Sacre, without affigning them precife limits, answer more nearly to the Usbecks

would be in the caftern part of their country.

<sup>·</sup> towards Kashgar. 43 See Ptol. tab. vii. Afia. Ifagûri.

<sup>44</sup> Ptol. lib. i. c. 11. 45 According to Marinus, it was 24,000

stadia from the Stone Tower to Sera; that is, either 2400 or 2000 miles " the real diffance than any other tribe. The Stone Tower is short of 1400. Ptol. lib. i. c. 12.

by modern geography, it is aftonishing that any commodity, however precious, could bear the expence of fuch a land-carriage; or that there should have been found merchants in the Roman empire, who engaged in this commerce throughout its whole extent-who actually conveyed the produce of China by land to the Mediterranean, without the intervening agency of the nations which notfeffed the countries through which it paffed. But this is a fact actually preferved by Ptolemy; for he informs us from Marinus. that Maes, a Macedonian 46, whose Roman name was Titianus, did not indeed perform the journey himfelf, but that he fent his agents . through the whole extent of this extraordinary peregrination.

In what state the Tartar nations then were, which could admit of fuch a traffic through all thefe different regions, it is now extremely difficult to determine; for though caravans have paffed within thefe few years between China and Russia, and though there was a communication ", and perhaps flill is, between that empire and Samarkand, as also with the Usbecks, this was carried on by the natives of the respective countries, and afforded no passage for merchants - to pass throughout, from one extremity of Alia to the other.

VII. MODERN ROUTE-MARCO POLO, RUDRUQUIS, CARPIN, GOEZ.

THERE was a period indeed, during the time of Zingis and his immediate fucceffors, when the power of the Mongoux extended from the Sea of Amour to Poland and the Euxine; and when there was a regular intercourse, by established posts, throughout this valt

<sup>&</sup>quot; Lib. i. c. 11.

gar; and fo it appears in the journal of Be-" The centre of this traffic fhould be Cash- nedict Goez.

extent; by means of this, Marco Polo, his uncle, and his father, Rubruquis, Carpin, and others, actually reached the court of Cambalu, and returned again by passports from the emperor. It was Marco Polo, the first of modern travellers who brought to Europe any confiftent account of this vast empire-who entered China by the north, and returned by fea to Bengal. His route outwards is not eafy to trace, because his descriptions diverge both to the right and to the left; but it is highly probable that he entered China nearly by the same route as Goez did, from Kashgar: this would have brought him to Sochieu, or fome other town in the neighbourhood, to reach which he might not have passed the Great Wall. But if this would account for his not mentioning it in the first instance, it does not folve the difficulty; for the court of Coblai, like that of Kien-long the late emperor, was a Tartar court, frequently kept in Tartary as well as China; and during the many years which he attended Coblai, he must have been in both. He did not bring the name of China to Europe, but Cathai and Mangi only, because he obtained those appellations alone which were in use among the Tartars: and it was feveral centuries later, before it was known that Cathai and China were the fame: We are contending here only for the existence of the communication, and endeavouring to shew, that in the middle ages it was the fame, or fimilar to that of the ancients. But from the time when the empire of the Tartars broke into separate governments, no travellers or merchants from Europe dared to attempt the dangers and exactions which must have attended them at every step, and when the progress of Mahomedism, in these northern courts, brought on an additional suspicion and hostility against every Christian who should have entered their country.

The only attempt in later times, that I am acquainted with, is that of Benedict Goez ", a Portugueze Jefuit, who left Agra in the beginning of 1603, and proceeded by Lahore to Cabul; and from Cabul, by way of Balk and Badakhan, to Cafigar. At Cafigar, the caravans from India met those which came from China; but so difficult was it to proceed, that though Goez obtained the protection of the king of Cafigar, he did not reach Sochieu, the first city within the wall of China, till the end of the year 1605; and at Sochieu he closed his life and his travels, in March 1607, without having obtained permission to go up to Pekin, or join his brethren who were established in that capital.

The undertaking of Goez is one of the most meritorious, and his account one of the most interesting, that is extant; for it is a regular journal kept of his progress, specifying every country, and every place, through which he passed. The enumeration of the days he travelled is three "hundred and ninety, besides some that we cannot ascertain, and exclusive of the delays he met with at various stations. But from him we learn, that Sochieu was the same fort of mart for the earavans of Cassgar, as Kiachta is for the Russians; that it was inhabited half by Cainese and half by Mahomedans; that the merchants of Cassgar were admitted into China, and suffered to go up to Pekin only under the colour of an embassy; that they brought

The account of Goez is in Trigault and Kircher, but it is here from Purchas, vol. iv. p. 310.

The city marked on Marco Polo's Map, where he entered China, is Succiur, which, with the Italian pronunciation, approaches very near to Socieu.

<sup>50</sup> In all which I believe it is unique.

<sup>&</sup>lt;sup>57</sup> As estimated by Bergeron, tom. i. Traité des Tartares, p. 75. I cannot make them so

<sup>&</sup>lt;sup>55</sup> The fame fort of trade he mentions likewife from Cochin-china, Siam, Leuchieu, Corea, and eight tribes of the Tartars: they all come under pretence of an embaffy, and all the prefents they bring are flyled Tribute: the

prefents, which the Chinese called Tribute, every fixth year; that from the time they past the frontier, the emperor bore the charge of the embaffy; and that the articles of commerce brought from Cashgar, were beautiful slabs of jasper, or variegated marble, and fomething that appears to be the agate, which we know, from Lord Macartney's account, the Chinese value so highly at the present day, Throughout the whole, the courage, perseverance, address, and patience of Goez, place him in the highest rank of travellers: he was deferted by all his companions but an Armenian boy, of the name of Isaac; and Isaac was fo fortunate as to reach Pekin, from whence he was fent to Macao, where he obtained a pallage to the Portuguese fettlements in Malabar. Here he gave the account of his mafter's expedition and decease; and more particularly mentioned the furprize of Goez, in finding that Cathai was China, and Cambalu. Pekin.

Exclusive of the communication between Russia and China, which has been feveral " times interrupted and renewed. This journal of Goez is the only authentic information to be depended on; and it is of the greater importance, as it is a line much farther to the fouth than the route of the Russian caravans, and actually coincides with the detail given by Ptolemy, and implied by other ancient geo-

they enter China. In this, then, confifts the right to limit the time; and he affects to know of no embaffies but from his tributaries. Apply this to Lord Macartney's embaffy, and it proves why the embassador was compelled to depart at a given day, and why his prefents were inferibed with the name of Tribute.

The fame circumftances are repeated by

emperor bears all their expences as foon as Josafa Barbaro (in Ramusio, tom. ii. f. 106.1. which he received from a Tartar on the Don, policy-that if he bears the expence, he has a who had paffed from Samarkand to China, which was the course of the northern caravans in that age, 1450; and filks, though then made in Persia, formed the principal article of the trade. This Tartar had been at Cambalu; had been introduced to the emperor, and referred to the ministers, &c. &c.

<sup>53</sup> See Ifbrundt Ides. Bell. Cox's Ruffia.

graphers; for Badascian, the Badasshan of Cherif Eddin, is the natural reprefentative of Ptolemy's Cômêdi 54, and Kufhgar, the country of his Cafii. Kafhgar is likewife a kingdom of much importance, and a country of great extent; for Goez was employed from fixty to fixty-five days in passing it, and he had still from forty to fifty before he reached Sochieu.

## VIII. ROUTE OF THE SESATAL FROM ARRACAN TO CHINA

LET us next examine the ancient accounts, in regard to this and other routes of the same fort. The first author that specifies this intercourse by land is Mela": he says, the Sêres are a nation celebrated for their justice, and have become known to us by their commerce: for they leave their merchandize in the defert 56, and then retire, till the merchants they deal with have left a price or barter for the amount, which, upon their departure, the Sôres return and take. This affertion is repeated again by Pliny, and confirmed by the Periplûs": for that the Sefatæ of that journal are the Tartar tribes which trade with China, cannot be doubted: the extravagances recorded of them, the

<sup>44</sup> If we may judge by the mountains at- filk had formerly been confined to the great tributed to both. Timur had always a body passing straits, climbing mountains, &c. according to Cherif Eddin.

<sup>55</sup> Lib. iii. c. 7.

<sup>26</sup> Commercium . . , rebus in folitudine relichis absens peragit. Mela, lib. iii. c. 7. Marcellinus (lib. xxxiii. p.

<sup>281.</sup> Paris, (681) has recorded the fame charafter of the Sêres, and the fame mode of conducking their commerce with foreigners; but with the addition of a curious particular : that

and rich, but in his time was within the purof Badacthans in his army, for the purpose of choic of the common people (nunc etiam ad ufum infimorum fine ulla diferetione proficiens). This circumftance proves, not only the great extension of commerce at Constantinople within thirty years after its foundation, by which the material was obtained, but likewife the proficiency of the manufacturers [perhaps at Tyre and Berýtus] in preparing it for the market. The whole paifage is worth. confulting.

erticles 38 mentioned, throw a shade of obscurity over this transaction; but that a fair 59 or mart is held for feveral days, and that the goods are left to the faith of those they deal with, is evident; and that this is a characteristic " of the Chinese trade, from the age of Mela to the establishment of Kiachta, is the uniform testimony of all that mention the commerce. Now that the Selatæ are a Tartar tribe cannot be questioned, when we find them described in the Periplûs; for they are a race of men fouat and thick fet, flat nofed, and broad They travel with their wives and families, and convey their merchandize enveloped in facks or mats 61. These are manifestly the Bêsadai, or Bêsatai, of Ptolemy, described under the same attri-

Sefatai by the Periplûs; and though it is much more natural that the Tartars should obtain betel from the Chinese, than the contrary (and fo Vossius renders it), vet that the Sêfatai and Bêfadai are the fame, cannot be doubted. The words of the Periplus are, Dinan κολοβολ, και συάδια πλατυπούσμπος, σιμός λε τίλος. Of Ptolemy, Kolosod, whartie, and Inovie, and πλασυπρόσμετοι. 'Λιυκόι μει τὰς χρόκς' ἐπὸς δὶ τὸς Κιδιαδίας & η Φασι νίνεσθαι το κάλλισον Μαλά-Calpor. Now the Kirrhadii of Ptolemy are at the eaftern mouth of the Ganges, and there the betel might grow, or be procurable; and if the Befadai were feated on the north of that country, they would be in Lasia or Thi-. bet, both of which are Tartar countries, and might well be engaged in conducting this traffic between China and Bengal, or perhaps Arracan. But whatever obfcurity there may be in this, it appears evident that Ptolemy and the Periplus mean the fame people; and, by the fimilarity of expression, copied from the fame authority. It ought likewife to be ab- first proposal, by marking the price on their ferved, that Σιμέι δις τίλος, as it now flands in facks; and the buyer, according to the mark, the Periplûs, is a reading of Voffius for tonis, fixes his price in return.

se The malabathrum is attributed to the or bud, or fomething unintelligible in the first copy of the Periplûs. Upon the whole, therefore, if we interpret the Periplus by Ptolemy, and conclude that the Sefatai brought the betel from Bengal or Arracan, making them the same people as the Bêsadai, we have a confiftent account of this article reaching the northern provinces of China, as it reached the fouthern by fea. That the betel should be procurable in Arracan, is reasonable; for it grows abundantly in Ava. Symes's Embaffy, p. 255. See also Dr. Buchanan's Account of the Burmas, Af. Refearches, vol. v. p. 219.

59 Vollitis reads optal you for applal you. 60 Coetum reliquorum mortalium fugiunt, commercia expectant. Plin. vi. 20. Expetunt ?

64 Es ractions, in firpeis; mats made of rushes, bags, or facks. So the Scholiast on Dionyfius, 757. Or di Dager malbrer arus imeκείνονται, τὸ τίμκμαι ἐπυγράΦεστες τοῖς ΕΑΚΚΟΙΣ καί δ ξωτορος έξ ξτενμαθών τοιτίται τὰς ἀποκρίσεις.

The Sêres, who are the fellers, make the

butes, and almost in the same words, with the addition, that they are of a white complexion "; and that the malabathron, or betel, is brought by them from the country of the Kirrhádæ, at the eastern mouth of the Ganges.

Here, therefore, we may discover another line of intercourse between India and China, which passed the mountains of Thibet's, and joined the route which came from Cabul and Balk, or reached the southern provinces of that great empire by a shorter course; and this, perhaps, may explain a dubious the passes of the Periplus already noticed, and may instruct us how the filk of China came down the Ganges, or the Brama putra into Bengal, and from thence passed by sea to the coasts of Coromandel and Malabar.

The northern communication with China is intimated likewife by Dionyfius, who, after leaving the Oxus, the Iaxartes, and the Cafpian Sea, on his progrefs callward, mentions in order, the Saca, Tocharoi, the Phrocroi, and then the Sères. If he had taken these regularly, the Tocharoi would have been the Tattars of what is fill called Tocharistan 'a, the Saca would be the Usbecks, and Phrooroi (possibly the Greek word ψρέρω'', as an appellative, and not a proper name) expresses the guard or garrison at the Stone Tower in the country of the Sacas, or the flation in the territory of the Calif, from whence the caravan proceeded to the Sères. I mention these circumsauces not so much on account of the geography, for

G. Ptolemy, p. 177.

G. The fame introcourse between Thiest and China is mentioned at a mart called stilling or Sinning, by Tutner, p. 372. Embley, —Rhubarb is noticed, p. 1941, and the white quartz grit-flone, for Porcelance, p. 390.

The trade between China and Ava is carried on at Jee. Symes's Embaffy, p. 325.

<sup>1- 65</sup> The Turkittan of the Arabs. 10 65 But Pling writes Thuri, @@go. Salm. 10. 989.

we are dealing with a poet, as for the purpose of introducing his beautiful description of the filks woven by the Seres:

Σηρών,

°Oιτε βόας μὲν ἀναίνενται, καὶ ἴφια μῆλα, ^Αιόλα δὶ ξαίνοντες ἐρήμης ἄνθεα γαίνε, «Ειματα τεύχασιν πολυδαίδαλα, τιμένεν α, Ειδόμενα χροιβ λειμανίδος ἄνθεν πόινς: Κένοις ἐτι κεν ἔργον ἀραχνοίων ἐρίσειεν,

Nor flocks, nor berds, the diffant Sères tend; But from the flow'rs that in the defert bloom, Tinchurd's with every varying hue, they culi 'The gloffy down, and card'i it for the foom. Hence is their may-coloured texture wrought Precious, and bright in radiance, that transfeads The mingted beauties of th' cuamed'd mead. A web fo perfect, delicate, and fine, Arachne and Arachne's progeny Might emulate in vain ".

Virgil supposed the Sères to card their filk from leaves:

Velleraque in folis depectuat tenuia Seres. Strabo, who does not mention the Seres, fill notices Serica, or filk: "En ruso forms Ennyation Flatous. P. 693. Byfflus, or a fine material carded from the bark of a particular tree.

Paulauias meant to correct them both, when he wrote is plan if it is not looking makers it. There is no is the plan phorous makers in the paulais, there is no in it is not in the paulais. There is no in it is not in the paulais.

The thread from which the Sêres form their web, is not from any kind of bark, but is obtained in a different way: they have in their country a fpinning infect, which the Greeks call Seer. 11 Elise, in fine. But Paufanias, though he had learnt that it was a worm, had not learnt more; he fup-pofed it to live five yeas, and that it fed on green haulm. The workmen of Tyre and Ber-fuss wrought the metaxs, or organizing, imported long before the perfect nature of the animal or the material was known. The true hillory and management of it were not come plete, till the monks obtained it for Justinia.

<sup>68</sup> In honorem Deorum (coronas) verfeolores veite Sericâ, unguentis madidas. Hunc habet noviflime exitum luxuria fominarum, Plin, lib, xxi. e. 8. Hard.

We observe here, not only the light-flowered

e filks, but the introduction of them into relie gious ceremonies, as early as the time of Pliny.

# IX. INTERCOURSE BY SEA-MELA, RAJAH OF PLINY, COSMAS INDICOPLEUSTES.

I HAVE dwelt more particularly on the filk of China, because it is as effentially the diflinguished produce of that country, as the pepper of Malabar, the mullins of Guzerat, the myrrh and frankincense of Arabia, are characteristics of these several countries; and I am very anxious to prove the communication with China by land, becanfe it will prefently appear that there was another line of intercourse by sea. If, therefore, the access both ways can be established. China alone, whether denominated Thina, Sing, or Seres, must be the country intended; for no other can be approached by these two different ways; and these two, opened from the earliest accounts we have in history down to the present day, denote exclusively the appropriate character of that vast empire, as these circumstances can be applicable to no other. The establishment of this truth will afford a ready folution of the difficulty which arifes from the polition of the Sinz in Ptolemy: they cannot be in China; and if we, accede to the opinion of M. Goffellin, that they are in Siam, we must conclude that Ptolemy, who gives so imperfect an account of the voyage to Cattigara, knew nothing of a farther intercourse by fea with the Seres, and that it was unknown in his age.

Mela, however, is faid to affert it, if we may believe the interpretation of Voffius; but in Mela nothing more appears, than that from Colis to Cudum the coaft is straight. His Colis is the fouthern point of India; and Cudum, according to Voffius ", implies the Cudutæ of Ptolemy, who are the nation nearest to the Sêres. The

<sup>6</sup> In Melam, Lib, iii. c. 7.

accuracy of geography we are not concerned with here, but the affertion; and what is meant may be feen by confulting M. Goffellin's 'o Map of Eratófthenes.' But this evidence is dubious and observe, and conduces nothing to the proof of any voyage performed. Little more fatisfaction shall we receive from Pliny or the Periplûs; for the father of the Rajah, who came upon the embaffy from Ceylon to Rome in the reign of Claudius, did not reach the Sêrcs by sea, but passed from India over the mountain Emôdus, the Himmalu of the Hindoos, and thence by an eastern route arrived at the country of Sêres, with whom he traded under the same restrictions as the merchants from Persa and Europe, or the Sêsaæ mentioned by the Periplüs.

Colmas, as far as I can discover, is the first author that fully afferts the intercourse by sea between India and China; for he mentions that the Tzinistæ brought to Ceylon filk, aloes, cloves, and sandal-wood. The articles themselves are the specific exports of China still; and that the Tzinistæ are Chinese, can not be questioned; for he expressly mentions their country, not merely as exporting, but producing filk; and specifies the distance from it by land as much shorter, compared with the voyage by sea. This circumstance can accord with no other country, at the extremity of the east, but China; for no other country is so situated as to have this double communication, consequently his Tzinistæ are Chinese; they have the same attributes as the Sêres—they are the same people; first, by the means of approach; and, secondly, because

<sup>&</sup>quot;Geographie des Grees.

"Volffins fuppofes the Samele to have the orthography of Tzimfin is fo\_effentially fettled in Ceylon; and a temple found in Chinge, that it precludes all doubt. See Al. Ceylon by Capt. Colin MtKenzie, referables. Referrches, vol. vi. p. 438.

they are furrounded by the occan on the eaft, and because that beyond them there is no navigation " or habitation. This is the one point, above all others, which I have laboured to establish by this disquisition; and though I obtain not my proof till the fixth century", the evidence is consistent in all its parts, and complete. The inference is justifiable, that the same intercourse existed by sea, as well as by land, in ages much earlier, though the account had not reached Europe, and though the proof is defective. It is in vain that I have searched for any intelligence of this fort previous to Ptolemy, though I was very defirous to find it, and prepossessing favour of its existence.

Two passages in the Periplus had almost induced me to press the author into the service, and compel him to bear tellimony to the fact. The first is, where he mentions the difficulty of going to, or coming from China; the second, where he notices that the makibathrum is brought from Thina by those who prepare it. But, upon a scrupulous review of these passages, I am persuaded that he considers only the communication by means of the Indus or the Ganges; and that though he allows an exterior sa on the east of China, the last place that a voyage by sea extended to, in his idea, was the Golden Chersonese. Had I formed a system, the want of such an evidence would have been a vexatious disappointment; and the more so, as my first contemplation of his language had persuaded me that I could apply it to this proof.

<sup>&</sup>lt;sup>22</sup> Піратіра Ві тід Тұйтіра; бойі едінта бой: <sup>23</sup> The date of Cofmas's work is 547, ассотіна. Собітав, р. 13В. Монтянсоп, Nov. cording to Montfaucon, Prefat. cap. i. Col. Patrum, rom. ii.

X. GOLDEN CHERSONESE, VOYAGE FROM CEYLON THITHER. COAST OF COROMANDEL, MASULIPATAM, GANGES, ARRA-CAN, AVA, SIAM, CATTÍGARA.

THE next point to be confidered is, how it should happen that Ptolemy should be unacquainted with the intercourse between the Golden Cherfonese and China: that his information should terminate with the Sinæ and Cattigara, which, to all appearance, are on the western coast of Siam. But he acquaints us candidly himself, that though Marinus 74 had heard of the journey performed by the agents of Maes through Scythia to the Sêres, he had no account of any one who had made the voyage by sea from the Golden Chersonese to Cattigara: all that he knew therefore, even of Cattigara, was from report; and much less could be know of all that was beyond it, that is, of all that was to the east of the Straits of Malacca.

The first view of his map would naturally suggest the idea which M. d'Anville has embraced: it looks like the termination of the peninfula of Malacca, and rifes up again northward to his Sinus Magnus, as if we were entering the bay of Siam ", the fea of Cochin-china, and China. But when we observe his Sinæ placed on the same parallel with Malacca, and his Cattigara carried down eight degrees 10 to the fouth, we see at once that both must be placed on a coast that has no existence, except in that vast imaginary

<sup>24</sup> TO M And one Xenne: Xullanous in 1 va Karthyana hanks the radiacopie & Magine; de initis not accord with the politions of M. Goffellin, 704. Lib. i. c. 14.

across the peninfula; and the great bay, after ance. Perhaps it was not necessary to fix paffing the Straits of Sincapura, is therefore Cattigara at Merghi. called the Bay of Siam.

<sup>&</sup>quot;This is one of the circumflances that does affigued to Thina and Cattigara; but the de-35 Siam extends, or did formerly extend, ficiency of information requires great allow-

continent which he has brought round the whole Southern Ocean, from Africa, in longitude 80°, to Cattigara, in 180°.

It is this circumflance which compels us, notwithflanding the appearance of his map, to coincide with the opinion of Voffius and M. Goffellin, that in reality he does not pass the Straits of Malacca and Sincapura; but that the account, which he had from report, carried him no farther than the weftern coaft of Siam. On this head it has been already noticed, that Mercator, who had no fythem to maintain, makes the coaft of the Sine front to the weft, and this the latitudes and account of Ptolemy require; but if we place the Sinz, with d'Anville, in Cochin-china, the face of the coaft is reverfed—it fronts to the eaft, or fouth-eaft, and makes Ptolemy in contradiction with himself.

Let us then suppose, either that the personal knowledge of the Greeks ended with Ceylon, and that all beyond was obtained by inquiry of the natives, and the merchants who came from the East; or else, let us assume that some few Greeks had penetrated farther. In either case, we may discover that the information was defective, both from the language of the geographers, and the construction of their maps; still we can follow their authority with a sufficient degree of consistency, till we arrive at the Golden Chersonese; beyond that, though the reports continued of the Sêres and other distant regions, the fabulous prevailed over the reality. It is not saying too much, if we conclude all the ancients under deception in this respect, without exception—it is not attributing too much to Marco Polo, when we say, that he was the first European who passed by sea from China to India, and thence to Europe; or at least, the first whose writings testify that his account of this voyage,

and this empire, is not founded on report, but personal knowledge and experience.

Is it meant then to affert, that the voyage was never performed previous to his time? Certainly not. He lived in the thirteenth century; and almost four centuries before that period, we know that the Arabs traded regularly from Siraf, in the gulph of Persia to China; and that the Chinese came to Malabar, perhaps to Persia and Arabia. But this Arabian account, though we have it now, reached not Europe previous to Marco Polo; and is this was true four hundred years before his time, though we were still ignorant of it in Europe, it is just, by anology, to conclude, that the same voyage was performed as many ages antecedent to the Arabian account, as that is previous to Marco Polo. Cosmas afferts it in the sixth century; and the whole contributes to establish the general admission of the fact by inference, though the proof is defective.

The first error in this respect commences at Ceylon, the magnitude of which is irreconcileable with its actual extent; but as Mela afferts, that no one had ever circumnavigated it, it is natural to

" 'Η Τζινίστα την μέταξαι Εάλλωσα, δε διδοτέρι δικ έγει έτέρα χώρα' ὁ Ωικαυὸς γιὰς ἀυτην αυκλοί κατὰ ἀνατολώς.

Tainlift, which produces fift, beyond which here is no country, for the ocean entirelos it on the eail. This affection proves, first, the filk organizate of China; fecondly, that China is the fame as the Sères of Mela and Pliny [primi hominum qui nofountur]; and thirdly, that Tainlis is not the Thina of Prolemy, for his Thina is encircled by the ocean on the woyf. And eggs.

Ταπροβάνη . . . . ἀπὸ τὰν ἐνδοτέρον, λέγω δὲ τος Τζινίστας, δέχνται μέταξαν, άλοψ καφοφαλλου, Τζανδάνην καὶ ότα κατὰ χώραν ἐισί.

"Taprobana, or Seliediba, receives from

" the countries farther east, particularly from

"the Chinefe, filk, thread, aloes, cloves, fan"dal-wood, and whatforver elfe is the pro"duce of the country." We learn by this,
that the cloves of the Moluccas reached Cev-

that the cloves of the Moluccas reached Ceyloa through the medium of China's from whence it follows, that the Chinefe traded with the Moluccas in that age on the one hand, and with Ceylon on the other. Cofmas, Montfaucon, p. 337.

This account is in harmony with the account of the modern trade of the Chinese, by Martini. P. 120. & fea.

Nec quifquam circummeaffe traditur. Mela, lib, iii, c. 7. amplify all that is unknown; and the magnificent terms in which this illand is always fpoken of in India, might naturally contribute to the deception. Its diffance also from the continent? is another error, which Voffius attempts to reconcile by fuppoing that the measure is taken from Coulam, or Covalam, to Point du Galle, because Pliny fays, the harbour is on the fouthern fide. Pliny likewife, as well as Mela, supposes the circumnavigation unattempted; and describes the passage through the straits of Manar with incorrectness indeed, but not with less difficulty than Barthema passed them, almost fifteen hundred years later, when they still continued the usual.

But from Ceylon, notwithflanding the mildake relative to the position of the coast, we can proceed with Ptolemy (who had obtained the native appellations of the country as wonderfully here as every where elfe), without hesitation to the Ganges; for we find

Paralia Sore-tanum = the Coast of Coro-mandel.

Nigama \* - - = Negapatam? D'Anville.

Chaberis River - = the Cavery in Tanjour.

Arcati Regia - = Arcot.

Maliarpha - - = Meliapoor, St. Thomè, near Madras.

Mefolia \*\* - - = Mafulipatam.

In the diffuld diffinguished by this name we are to fix the point or cape, where those who left the coast took their departure to cross the bay of Bengal, and make their passage to the Golden Chersonese. This point, which has no name in Prolemy, M. d'Anville bas, with

" Barthema, lib. vi. c. 2.

<sup>29</sup> Twenty days in the flups of the country, feven in the veffels from Egypt. Both differences are in except; for, from Covalan to Point de Galle in little more than 200 miles.

<sup>4</sup> The polition of Negapatam answers; but whether it is ancient, may be questioned.

Written Mafalia in the Periplûs.

great propriety, fixed at Gordaware, a cape near the mouth of the Godavery, and from which it feems to take its name.

The whole of this course, from Ceylon to Mesolia, is in correspondence with the Periplús, and apparently with the account of the Arabs in Renaudot. In all three, there is no appearance of a direct passage by the monsoon from Ceylon to the Golden Cherfoncse; and if Ptolemy's traders passed from the Godavery at once to the opposite shore, it is the boldest is adventure of the whole.

Concerning the Ganges there is no difference; but the Kirrhádæ of the Periplus are west of the Ganges, and those of Prolemy to the eastward. In this there can be little doubt that Prolemy is the more correct; and unless a name deceives me, I find in his Kirrhádæ the Kadrance of the Arabs, and the Arracan of the moderns.

We are now to enter upon the Great Peninula, comprehending provinces diffinguished by the titles of Gold, Silver, Brafs, and the Golden Cherfonefe, off which lies an island of Barley, with its capital called the Silver City. The mere assemblage of these names is sufficient to prove, that they are solutions and imaginary; and received, as they must have been, by report, they must be attributed either to the vain glory or caprice of the reporters, and not to the invention of the Greeks. Yet even here, Ptolemy preserves his privilege in recording some names that cannot be mistaken, and which afford us the means of ascertaining the country we are to enter on, however described the way be in particulars.

<sup>&</sup>lt;sup>10</sup> The Araba first mention the fillend of Ngiphulus, and then Betures, or Melispoor; a Ngiphulus and then Betures, or Melispoor; a first therfore, Ngiphulus the the Nicobars, they centifed half the beyof Bengals, and returned with the condit of Coromusdel. D'Anville fup passed to the parallel on which it is to be profer Nicholaw and Nsjabal quivalent.

How little of the detail of this coast can be depended on, may be feen by comparing a few of the names with the positions assigned them by d'Anville and Gossellin:

PTOLEMY.	D'ANVILLE.	GOSSELLIN.
Sada.	Sedon.	Rajoo.
Berabona.	Barabon.	
Temala.	Cape Negrais.	Botermango.
Berobè.	Mergui,	Barabon.
Aurea Cherfonefus.	Peninfula of Malacca.	Ava, and Daona. River of Ava.
Magnum Promontorium.	Cape Romania.	Pointe de Bragu.
Zaba.	Sincapura.	Bragu.
Magnus Sinus.	Gulph of Siam.	Martaban.
Sêrus Fluvius.	Menam. River of Siam.	River of Pegu.
Sinæ.	Cochin China,	Siam. Tanaferim.

Now, though I am convinced with Goffellin, that the Great Bay, the River Serus, and the Sinæ, are all weft of the Straits of Malacca, and perfuaded that the Sinæ are in Siam, it is not neceffary to accede to his opinion, that Sinæ 's Metropolis is new in refpect to Prolemy, or that Prolemy knew nothing of Java; for Iabadico, according to Greek pronunciation, is ftricity Java-diu, the Island of Java. Prolemy's polition of this island is of no importance; for he has hardly one island correctly placed from Africa to Siam, and his ignorance of its extent is no more extraordinary than his augmentation of Ceylon. But the surprize is, that he should have obtained the name of Java; and whether we attribute this to the island now called Java, or to Suwatra, which M. Polo calls Java Minor, the appellation itself may well excite our attonishment. There is, how-

<sup>&</sup>lt;sup>5</sup> M. Goffellin's opinion does not feem sgain to Thina of Entofthenes, compared founded on the diffinction between Sine and with the Thina or Sine Metropolis of Pto-Sera Metropolis. If it were 6, we must refer lemy.

ever, only one point in Ptolemy which can cause any doubt respecting the position of the Sinæ in Siam; which is, the mention of Ta-mala and Malai-oo Kôlon; for however the first may be questioned, the second so positively intimates the country of the Malays or Malacca, that we cannot help attending to the connection. The placing of this likewise in the neighbourhood of the Pirates, which has been the character of the Malays in all ages, contributes to the same supposition. I do not mention these circumstances for the purpose of invalidating M. Gossellin's system, for upon the whole I accede to it; but still the question is not cleared of all its dissibilities; and it seems highly probable, that as Marinus had no evidence from any one who had performed the voyage either to the Golden Cherfonese or Cattigara, that Ptolemy had no information which was consistent to direct him.

That the voyage itfelf was performed by native merchants may nevertheles be admitted, not only as it may be collected from the accounts of later ages, but as it is afferted by Cofmas. Defirous as I have been to find an earlier teftimony of this, I have not succeeded; for though the Periplûs mentions the very large \*\* veffels fitted out on the coast of Coromandel, the limit of their progress was Khruse, and short of Ptolemy's Cattigara. The remainder of the course to China does not feem to have reached Europe, even by report \*\*.

What

<sup>\*</sup> Kolandiophonta. See Capt. Wilford's Chronology of the Hindoos, Af. Refearches, vol. v. p. 283. where he fays, this expression means Coilan boats or flips.

<sup>&</sup>quot;At l'arnaffari, as Barthema writes, which is nearly in the fame fituation as the point from whence the fleets failed, according to Ptolemy (Gryngus, p. 227, lib. vi. c. 12.),

His est varius multiplecque navigantium ulus, fulcait alii matia vehetibur complunatis admodum, que altiores aquas minime expolente, alii navigant Liburaitis geminam pròram habentibus, geminumque malum abique tecto; est et aliud oneraris navis genur quo enormia

onera comportantur, nam ferunt aliæ ex memoratis onerariis navibus fupra mille mercium dolia.

What then is the Golden Cherfoucie? a question cafe to refolve generally, but very difficult to apply in its refult to the different anthors who have mentioned it. It is the most distant country east, according to Dionyfius " and the Periplus : it is called an ifland by both; an ifland of the ocean, by the latter, and placed adjoining to the castern mouth of the Ganges. According to Mela, it is an island at the promontory Tamos. If Tamos " be the Tamala of Ptolemy, that cape must be either in Ava or Pegu, as we adopt the fystem of d'Anville or Gossellin; and if it must be an island ", we might place it at the mouth of the Ava river, which pades through Pegu to the fea, and forms many iflands at its different mouths. Here also Goffellin fixes his Golden Cherfonese, and the river Chryfoana; but Ptolemy has two provinces-one of gold, and one of filver-before he arrives at the Cherlonese; and if his Kirrhadia be Arracan, these provinces must be on the western coast of Ava, above the Golden Cherfonese of his arrangement. All this mention of gold would furely direct us to fome conclusion, from the general nature of the country; and it does feem very probable, that both

dolia. Imponent his valtioribus navigiis cymbes, navefune actuarias in urbem Malacha nomine deferendas, quibus captum proficifeuntur aromata.

If Barthena lud fren the Peripita, he could not have employed language more confoundable to it; for we have here the light welfar which andere to the fingers and monorfly; and others of a thouland tons, correlipouling with the kolandiophôtant of our author; we have the fame trade from Coronandel to Malexa, and the cargo obtained there confits of spices and filk. P. 232.

\*\*I.h.\* 830.

\*\*I.h.\* 830.

\*\*I.h.\* 830.

\*\*I.h.\* 830.

" Tamos promontorium est quod Taurus attollit. Mela, iii. 7.

If Taurus were the only difficulty here, we could frame a folation of it; for Taurus is found in China and at the Indus, and this might be a claim brunching from it in Ava, according to the idea of Mcla.

But that Tanno is Pamala, or fomething near it, is evident; for it is added, ad Tannom infula ell Chryse. . . . . Anci folj . . aut ex re nomen, aut ex vocabulo fichs fabula ell. Ibid.

<sup>39</sup> An illand, or a cherfonele, are the fame in Arabie, and from Arabs the Greeks poffibly had their intelligence. the wealth and oftentatious display of it in Ava, Pegu, and Siam, may well have given rise to the report which attributed so large a share of the precious metals to this great peninsula. The glory of Pegu and Siam has sunk under the ascendant of Ava; but in all these courts, the exhibition of gold in their temples, public buildings, gallies, habits, and decorations of every kind was, while they existed, the summit of Oriental pomp, as it continues in Ava 11 to the present time; and if we should chuse to carry the Silver Metropolis of Iabadioo 25 to Sumatra, the splendour of Acheen, in its better days, would bear its proportion to the gold of Ava.

In this view it is natural to accede to the position of the Golden Chersonese by Gossellin; and if this be granted, his Sinæ and Cattigara in Siam sollow of course. Some dissiputies in the way of this conclusion have been already noticed, and a greater is, that Ptolemy should be ignorant of the voyage to the Sères; but doubtless he went as far as he was authorized by the information he had obtained. I feel a regret in acknowledging this, because I should rather have received the confirmation of this great geographer on the subject, than build it on inference or analogy. The evidence of Cossas is all that remains, to prove that there was a communication by sea between India and China; and this is the point material to insist on, because the intercourse through Tartary, on the north, is indisputable; and if both these means of approach be established, the country of the Sères must be China; for these circumstances cannot appropriate to any other country at the extremity of the East.

<sup>&</sup>quot; See Symes's Embally to Ava, pp. 186. which is Sava dive in the mouth of a Greek, 388, 413, 424. & pallim. the full interest like Scien-

<sup>2</sup>º Ptolemy has dioo or din in another form dib and Selen-dive. applied to a neighbouring group, Saba-dibæ,

XI. LONGITUDES AND LATITUDES OF PTOLEMY, HOWEVER IN EXCESS, STILL THE CAUSE OF MODERN DISCOVERY; NAVI-GATION TOWARDS THE WEST FROM SPAIN—ROGER BACON, COLUMBUS, MAP OF PTOLEMY; EULOGY OF PTOLEMY.

In the whole of the attempt in which I have been engaged, from the voyage of Nearchus to the close of the present work, it has been my endeavour to trace the progress of discovery, as carried on by the Greeks and Romans, from the time of Alexander to the reign of Justinian "; and the only object of confideration remaining is, the extent of their knowledge in Longitude and Latitude. The excess of longitude in Ptolemy is the fubject of universal complaint; but this excess arises, in the first instance, from his assumption of five hundred stadia for a degree of a great circle; and secondly, from the vague method of calculating distances, by the cstimate of travellers and merchants, and the number of days employed in their journies by land, or voyages by fea. Respecting this last source of error, Ptolemy was upon his guard; for he repeatedly corrects the excess refulting from the calculation of days by Marinus, and reduces it fometimes a third, and fometimes an half, or even more. After all, however, we have an hundred and eighty degrees from the Fortunate Islands to Cattigara, upon a space that in reality occupies less than an hundred and twenty. So that the ancients, instead of knowing one-half of the globe which we inhabit, in fact knew only one third: fill they knew that the earth was a globe; and one cause of their error, among others, perhaps was, that they had a defire to cover as much of it as they could.

<sup>&</sup>quot; The date of Cosmas, anno 547, is the 21st of Justinian.

The error in latitude ", on the contrary, was fo finall, that in a view of this kind it is not worth regarding; for if we take it from the parallel through Thule to the parallel through the Cinnamon Country, at eighty degrees, the difference from the truth is not more than fix or feven degrees upon the whole, and with this we have little concern.

But upon the excess of longitude depended, ultimately perhaps, the grand problem of circumnavigating the globe, and the origin of modern discovery; for as Strabo \*\* had faid, that nothing obstructed the passage from Spain to India by a westerly course, but the immensity of the Atlantic Ocean; and as all the early navigators of Portugal had some acquaintance with Ptolemy, so from the first moment that the idea arose that a passage to India, or a circumnavigation, was possible, the account of Ptolemy lessend the difficulty by fixty degrees. When Columbus, therefore, launched into

24 The latitude of Thule is 64 north, in Ptolemy, and the parallel through the Cinhamon Country 16 24 fouth; that is, 80 24 upon the whole,

n Arifotle feems the author of this suppofition, as well as of most other things that are extraordinary in the knowledge of the ancients. See Bochart, Phaleg. 160.

Emanter the repl the 'lipandelse end at these to week the 'leduch.

"The parts about the Pillers of Hercales." are the certaprone fill; but both loppositions affic from "rich real approach fill; but both loppositions affic from "rich real to Arittothe has also preferred the opinion of the Cartha as fiphere..." call to Arittothe has also preferred the opinion of the of sealers of our fythem, with the Earth and the other fail followed by Department and the other fails object to the order of the control our fythem, with the Earth and the other fails followed by Departments and eliabilised Anapima by Newton. Strabo likewife, how let the the clock 155.

phenomena of the heavens, and the form of the earth, to the mathematicians, still thought the earth a fphere, and describes our system agreeable to that which was afterwards adopted by Ptolemy; but he adds the idea of gravitation in a most fingular manner : Equipment mis & Korme; and & Oupard; "H POTTH & sail to uf. συν των βαρούν . . . . . . 8 8 'Oupart; περιθέρισκι περί ים מבותי אתו שבף דמי מניסים, מד מיסים און להו לניסים. Lib. ii. 110 .- " The earth and the heaven " are both spherical; but the tendency is to " the centre of gravity. The heaven is car-" ried round itself, and round its axis from " eaft to welt."-I barely fuggeth the extent of ancient knowledge on these questions; those who wish to gratify their curiolity may confult Stobzus, tom. ii. c. 25. ed. Heeren, Gotting, 1792, 1794; and Diogenes Lacrims in Anaximander, Pythagoras, and Zeno, lib. vii.

the Atlantic Ocean, he calculated upon fixty degrees less than the real distance from Spain to India \*—a space equal to three-fourths of the Pacific Ocean; and when his courfe to India was stopped by the intervention of America, however his companions had been driven to despair by the length of the voyage, Columbus certainly met with land before he expected it, or at least before any estimate of his longitude could authorize the expectation.

The prevalent opinion, in the middle centuries, of a passage from Spain to India, is preserved in Roger Bacon; and his opinion is more worthy of regard, because his fystem is nearest to the actual prosecution of the attempt. He then informs us, that according to Aristote there was but a small space of sea between the western coast of Spain and the eastern coast of India; and that Sencea mentions that this sea may be passed in a few days, with a favourable wind. Aristotle the heads, had his knowledge of the East from Alexander; and Sencea, his knowledge of the South from Nero, who seat his centurions into Ethiopia. He might also have introduced the celebrated prophecy of Seneca the poet:

Venient annis fæcula feris, Quibus oceanus vincula rerum Laxet, et ingens pateat tellus, Tethylque novos detegat orbes, Nec fit terris ultima Thule.

Medea, 1. 375.

A time will come, in ages now remote, When the vaft barrier by the ocean form'd May yield a passage; when newscontinents, And other worlds, beyond the sea's expanse, May be explor'd; when Thulè's distant shores May not be deem'd the last abode of man.

<sup>\*\*</sup> India, in this fenfe, means the first land he would meet with coming from the west, which would in reality have been China.

\*\* Rogeri Bacon opus majus, p. 183. He cites Arifolde, de Cuelo et Maudo ; and Semicha which would in reality have been China.

<sup>&</sup>quot; Bacon died in 1294.

The Nuremberg Globe, as it is called, now publified in Pigafetta's Voyage, favours the fame opinion; in which the fartheft ifle to the weft is named Antille, the exiftence of which was dubious, and yet the fuppofition of it was fufficient to make Columbus think he had reached the Antilles when he discovered the first island in America. This discovery is the more extraordinary, as it was the effect of defign, and not accident "j; when accident would have produced the fame effect not ten years later; for it was accident alone that carried Cabral to Brazil in 1500; and the arrival at Brazil would as infallibly have been profecuted to the exploration of the whole continent, as the archievement of Columbus.

But there is a circumftance ftill more fingular, which attaches to this idea of a paffage from Spain to India; for I have in my poffeffion, by favour of Lord Macartney, a copy of the map in the Doge's palace at Venice, drawn up for the clueidation of Marco Polo's travels, or at leaft certainly conftructed before the discovery of America; for in this map there is nothing between the eastern coaft of China and the western coaft of Spain but sea; and though the longitude is not marked on it, we may form an estimate by comparing this space with others in the same sheet, which are known. Now this space measured by the compasses gives, as nearly as may be, the same distance from China to Spain, as from Ceylon to Malacca; that is, ten degrees, instead of an hundred and fifty; or less than seven hundred miles, instead of upwards of ten thousand. I cannot affert that this is the genuine production of M. Polo \*\*\*: it

The map, as it now appears, is very ill For, first, it carries him from China accommodated to M. Polo's travels, and if Bengal by land, whereas he went by fee.

<sup>&</sup>quot;At leaft only fo far accident, as meeting taken from an older one drawn up for that with America ontead of India.

The man, as it now amours, is very all

For, first, it carries him from China to

has additions which belong not to his age, and contains much that he did not know; but it is evidently composed and adapted to his travels, and as evidently, more ancient than the discovery of America. We have in it, therefore, a guide to form our opinion of the geographers of that age, and the notions they had conceived of the unknown parts of the world; we have likewise the origin of those conclusions which led Columbus to attempt a westerly passage to India: in effecting this, he was only disappointed by finding a continent in his way, which has caused a revolution in the commerce of the whole world, and which may ftill cause other revolutions, incalculable in their effect, magnitude, and importance.

But if it is fruitless to look forward to future revolutions; wemay at least reverse our attention, and direct it to those great masters in the science, who first taught mankind to measure the surface of the earth by a reference to the phenomena of the heavens-to Eratofthenes-to Hipparchus; and, above all, to Ptolemy, who first established this system on a basis so firm, that as long as there shall be travellers and navigators in the world, it can never be shaken. The science, however advanced, is still only in a state of progression: it is fill conducted upon his principles, and is in reality nothing more than a correction of his errors. Those errors were unavoidable, if we confider the difficulty of all first attempts, and the

2. It delineates the Great Wall, which he fifteney should accord with that part of the map which gives no continent between China and Spain, is totally inexplicable; but that we cannot be miftaken in calling it Spain, is felf evident; for we have the river [Guadil] is, almost fixty years after the discovery of Quivir, Corunna, and the Sierra Nevada, or America; and on that occasion mentions the Snowy Mountains of Andalusia, all in their

<sup>2.</sup> It gives the Molucca Islands in detail.

And, 4. It describes the course of a Venetian thip, east of the Moluccus, in 1550, that . Straits of Magellan, How this strange incon- proper places.

flender means of information in that age, compared with the advantages we possess at the present hour. But even his failures have conduced to the attainment of truth; and whatever reslections we may now cast on an excess of fixty degrees upon the measurement of an hundred and twenty, we must acknowledge, with d'Anville, that this, which was the greatest of his errors, proved eventually <sup>vat</sup> the efficient cause which led to the greatest discovery of the moderns.

<sup>201</sup> La plus grande des erreurs dans la géo-grand des decouverts. Antiq de l'Inde, graphie de Ptolémée, a conduit à la plus p. 188.

# DISSERTATION II.

# EZEKIEL, C. XXVII.

THE produce of India or Arabia, mentioned in the Scriptures, confifts of

Cinnamon \*.

Kafia. Sweet Calamus, Calamus aromaticus? or, Calamus odoratus? Stactie, or Gum.

O'nycha, or Skekeleth, a black odoriferous shell '-

Gálbanum, a gum or refin.

Aloes. Myrrh.

Frankincense.

Frankincenie.

Of these, einnamon and kasia are the only articles which can be attributed specifically to India; and these, with all the others, were brought originally through Arabia into Egypt, Judéa, Phênicia, and Syria; and from these countries distributed round all the coasts of the Mediterranean. How cinnamon and kasia might have reached Arabia, by crossing no more sea than the breadth of the Persian

<sup>&#</sup>x27; See Exodus, xxx. 23. et seq. Pfalm xlv. Parkhurft in voce.

<sup>8.</sup> Ezek. xxvii. 19.

Gulph; or how they might have been conveyed to the coaft of Africa, the reputed Ginnamon Country of the ancients, has already been fufficiently detailed; it remains now to be fluewn, that Tyre pofferfied the principal fluer of this trade, from the carlieft mention of that city in hiftory, till its deftruction by Alexander, and the foundation of Alexandria.

Tyre, in fact, enjoyed this commerce almost exclusively, except during the reign of Solomon, when Hiram found it his interest to unite with that monarch, who was fovereign of Idumêa, in order to secure a port for his sleets in the Red Sea; and the certain means of conveying the imports and exports over-land, from the Red Sea to the Mediterranean. Solomon's however, though he exacted a tax upon spices, and contributions from the kings and governors of Arabia, and shared in the profits of the trade, still had no sleets on the Mediterranean—no commerce on that sea. This circumstance gave Tyre a monopoly in regard to the whole communication with the Western World; for though Egypt and Syria might receive the same articles from the East, we read of no sleets or commerce from these countries towards the West; in the hands of their respective inhabitants.

The immense profits of this monopoly admit of calculation; if we dare trust to the Hebrew numbers in scripture; but Dr. Kennicott has shewn, that in some instances the amount expressed by these has doubtless been exaggerated; and if the numeration by letters was used in the original transcripts of the sacred writings, it is well known that numerary letters are more subject to error, corruption, or exaggeration, in the manuscripts of all languages, than any other part of their text.

But let us suppose that the advantages of Hiram were equal to those of Solomon, which is not unreasonable if we consider, that though Solomon enjoyed the profits of the transit, Hiram had the whole emolument of the commerce with the West. Let us then observe that the revenue of Solomon is stated at fix hundred and fixty-fix talents of gold, which, according to Arbuthnot, amount to three millions fix hundred and forty-fix thousand three hundred and fifty pounds flerling-an extravagant fum at first fight! but not impossible, if we compare it with the revenues of Egypt, which, after the building of Alexandria, enjoyed the fame commerce, and the fame monopoly. Even at the prefent day, when the grand fource of Ecyptian wealth is obstructed by the discovery of the Cape of Good Hope, Sir Home Popham estimates the revenue at twenty " millions of dollars', equal to between four and five millions English: and when the same revenue, under the Roman government, may be estimated at three millions, which, allowing for the different ratio of specie, may be taken at four times that amount. Let us reflect on these extraordinary sums, before we conclude upon the impossibility of the same commerce, and the same monopoly, producing a revenue of three millions and an half to Solomon, upon the import and transit; and the same sum to Hiram, upon the export. I dare not affert these to be facts, because I think, with Dr. Kennicott, that numerary letters are liable to error; but the revenue of Solomon is twice 6 flated at the fame fum; and the contemplation

Of all this revenue, notwithflanding the Grand Scignor flyles himfelf-mafter of Egypt, fearcely a fhilling reaches Conflantinople.
Sir Home Popham's condite Statement of Fafts, p. 1544

<sup>1</sup> Kings, x. 14. 2 Chron. ix. 13. The great amount of this revenue is fill further mercafed by the declaration, that the 666 takents of gold were exclusive of the taxes upon the merchants. Verfe 14.

of the revenue of Egypt in the same situation; and under similar circumstances, admits of imputing an immense emolument to this commerce, wherever it became a monopoly.

I have been led into this discussion, upon which every one must form his own judgment, by the specific detail of the Tyrian commerce, in the twenty-seventh chapter of Ezekiel, which, if we confider it only as historical, without any reference to the divine authority of the Prophet, is not only the most early, but the most authentic record extant, relative to the commerce of the ancients; as such, it forms a part of the plan which I have undertaken to execute. In this view I submit it to the reader; and though I pretend not to any power of throwing new light on the subject, and defpair of removing those difficulties which surpassed even the learning of a Bochart fully to elucidate, still there will not remain any general obfeurity which will prevent us from forming a right judgment upon the whole.

Tyre' was one of those states which had rejoiced at the destruction of Jerusalem, and the captivity of Judah; it became therefore an object of prophecy to declare, that she also was to fall by the hands of the same conqueror, who had subverted the throne of David; but so much more abundant were the means, or so much stouter was the desence of this commercial city, that the army of Nebuchadnezzar lay before it thirteen years; and it was not taken till the sistenth after the captivity, in the year 573 before Christ; and when taken, it was so exhausted by the siege, or so deserted by the infabitants, that the conqueror found nothing to reward him for his labours. Prideaux supposes this city to be the Old Tyre on the conti-

nent; and that the inhabitants took refuge on the island, where the new city flourished again with almost the same vigour as its parent, till it was deftroyed by Alexander in the year 332 A. C. two hundred and forty-one years after the reduction of it by the Babylonians. But, by the language of Ezekiel, it feems as if the city was upon the ifland in 573; for (in chapter xxvii. 3.) he fays, Thou that art at the entry" of the fea; and in the following verse, and in c. xxviii. the expression is, " I sit in the midst of the seas," or, as it is in the original, " in the beart of the feas." The question is not of great importance; but as it rose again after its first reduction, by means of its fituation, and the operation of the fame causes, those causes ceased after its second fall, by the removal of Oriental commerce to Alexandria; and from that period it gradually declined. till it has become a village under the defolating government of the Turks: where Maundrel informs us, that he faw the prophecy of Ezekiel literally fulfilled "; for when he was there, the fishermen were " drving their nets upon the rocks,"

### EZEKIEL, c. xxvII.

In undertaking the elucidation of this chapter, perspicuity is the only object in view; omitting, therefore, all consideration of the stublimity of prophecy, or the majesty of language, I propose, first, to illustrate the commerce of Tyre in its various branches, by redu-

<sup>\*</sup> Atthe entering in of the fea. Newcomibe. An "Ezek. xxvi. 14. Maundrel, p. 45. He caperlion which ferens to imply, the channel hewere the fillada god the main; but all the miderales liftherens who inhabit the place, commentators unite in the fame opinion with Poldeux.

cing the Hebrew appellations to the flandard of modern geography; and, feechdly, to give a commentary on the whole, deduced from the bef writers on the fubject. By this method, due regard will be had to the convenience of one class of readers, and the curiofity of another; and although I pretend not to affign every ancient name, with precifion, to its modern reprefentative, fill there will remain fuch a degree of certainty upon the whole as to gratify all that have a pleafure in refearches of this nature.

Let us then, in conformity to the opening of the prophecy, confider Tyre as a city of great splendour, magnificently built, and inhabited by merchants whose wealth rivalled the opulence of kingswho traded to the East by the intervention of Arabia, and to the West by means of the Mediterranean; let us add to this, that in ages prior to the celebrity of Greece and Rome, their fleets had braved the dangers of the ocean, and their people were the only mariners who were not limited within the circle of the Mediterranean; that they penetrated eastward through the Straits of Death ". which were the termination of the Red Sea, and westward beyond the Pillars of Hercules, which were the boundaries of all knowledge to every nation but their own; that they advanced northward to the British Isles, and fouthward to the coast of Africa on the Atlantic Ocean". Let us contemplate these enterprizes as completed by the efforts of a fingle city, which possibly did not possess a territory of twenty miles in circumference; which fuftained a fiege of

<sup>&</sup>quot; The Straits of Bab-cl-mandeb, literally the Gate of Death.
" If this fhould be thought dubious in re-

gard to Tyre, it is undoubted in regard to its colony, Carthage. It is the universal opinion

that the Phoenicians came to Britain; but in what age, may be a doubt. If they reached Gades only in the times here alluded to, it

was paffing the Straits of Calpe, which at that period no other nation did.

thirteen years againft all the power of Babylon, and another, of eight months, againft Alexander, in the full career of his victories; and then judge, whether a commercial fiprit debafes the nature of man, or unfits it for the exertion of determined valour; or whether any fingle city, recorded in history, is worthy to be compared with Tyre.

After this general view of the fplendour of the city, we may proceed to the particulars specified in the Prophecy. First, therefore, Tyre procured,

Verfe

 From Hermon, and the mountains in its neighbourhood— Fir for planking.

From Libanus-Cedars, for mafts.

6. From Bashan, east of the sea of Galilee-Oaks, for oars.

From Greece, or the Grecian Ifles—Ivory, to adorn the benches or thwarts of the gallies.

 From Egypt—Linen, ornamented with different colours, for fails, or flags and entigus.

From Peloponnesus-Blue and purple cloths, for awnings.

- From Sidon and Aradus—Mariners; but Tyre itself furnished pilots and commanders.
- From Gebal, or Biblos, on the coast between Tripolis and Berýtus—Caulkers.
- 10. From Perfia and Africa-Mercenary troops.
- From Arádus—The troops that garrifoned Tyre with the Gammadims.
- 12. From Tarshish, or by distant voyages towards the West, and towards the East—Great wealth. Iron, tin, lead, and filver. Tin implies Britain, or Spain; or at least a voyage beyond the Straits of Heroules.

Verfe '

- 13. From Greece, and from the countries bordering on Pontus— Slaves, and brass ware.
- 14. From Armenia-Horses, horsemen, and mules.
- 15. From the Gulph of Persia, and the isles in that gulph—Horus [tulks] of ivory, and ebony. And the export to these isles was the manufacture of Tyre.
- 16. From Syria—Emeralds, purple, broidered work, fine linen, coral, and agate. The exports to Syria were the manufactures of Tyre, in great quantities.
- From Judah and Ifrael—The finest wheat, honey, oil, and balsam.
- 18. From Damascus—Wine of Chalybon (the country bordering on the modern Aleppo), and wool in the fleece. The exports to Damascus were, costly and various manufactures.
- 19. From the tribe of Dan", fituated neareft to the Philiftines— The produce of Arabia, bright or wrought iron, cafa or cinnamon, and the calamus aromaticus. In conducting the transport of these articles, Dan went to and fro, that is, formed or conducted the caravans. By one interpretation they are said to come from Uzal; and Uzal is judged to be Sana, the capital of Yemen, or Arabia Felix.
- From the Gulph of Perfia Rich cloth, for the decoration of chariots or horsemen.
- 21. From Arabia Pètrêa and Hedjaz Lambs, and rams, and goats.

<sup>&</sup>quot;Dan and Javan may in this paffage both most convenient for the caravans between Petra be Arabian; but if Dan be a tribe of lired, and Jopps. From Jopps the merchandize its situation is between the Phillitines and Jopps a most between the Phillitines and Lopps a most the people of that tribe would lie at a later period from Rhinox-kira.

Verfe
22. From Sabea and Oman—The best of spices from India, gold,
and precious stones.

- 23. From Mefopotamia, from Carrhar, and Babylonia, the Aflyrians brought all forts of exquifite things, that is fine manufacture, blue cloth and broidered work, or fabricks of various colours, in chefts of cedar, bound with cords, containing rich apparel. If these articles are obtained farther from the East, may they not be the fabricks of India, first brought to Assira by the Gulph of Persa? or caravans from Karmania and the Indus, and then conveyed by the Assira in other caravans to Tyre and Syria? In this view the care of package, the chefts of cedar, and the cording of the chefts, are all correspondent to the nature of such a transport.
- 25. From Tarshish the ships came that rejoiced in the market of Tyre, they replenished the city, and made it glorious in the midst of the sea; and if we could now statisfy ourselves, with Gossellin, that Tarshish means only the sea in general, these ships might be either those which traded in the Mediterranean, or those which came up the Red Sea to Elath, or Leuke Komè, or any other port of Arabia. I am rather inclined to the latter, because, from the nineteenth to the twenty-south verse, every particular relates to the East, and apparently to the produce of India; but if we are to understand, literally, the joy of the ships in the harbour of Tyre, they must be those of the Mediterranean; and this supposition accords best with the Tarshish noticed in the twelfth verse, which by the mention of silver, lead and tin, evidently alludes to Spain, and perhaps to the British Isles.

Such is the historical part of this fingular chapter relative to the commerce of Tyre, and illustrative of all ancient commerce whatfoever. It is uttered, however, in an age when the Tyrian fleets no longer failed from Eziongeber, and when the commodities of the East were received by caravans from Arabia Petrêa, Sabêa, and Mefopotamia. From the time that Judah was feparated from Ifrael. there does not appear to have remained vigour sufficient in either, to have maintained fuch a power over Idumêa, as to have fecured a communication with the Elanitic Gulph, for the only attempt to recover this influence was made by the united efforts of both kingdoms, and a treaty between their two kings, Jehosaphat and Ahaziah : but the attempt was superior to their united force, and their thips were broken in Eziongeber. From this period ", and probably from the termination of Solomon's reign, the Tyrians had no thips on the Red Sea, and supported their communication with it by land only; their track varying as the power of the neighbouring countries fluctuated. This point it is not necessary to insist on, but in an age posterior to the prophecy, and long after the second capture of the city by Alexander, we find that a line of intercourse was open between Rhinocolûra" and Petra. It is not, however, the object of the present inquiry to go lower than the second siege; but barely to mention, that even under the Roman Empire a spirit of

<sup>&</sup>lt;sup>34</sup> 2 Chron xx. 35. Jehofaphat at first refused a junction with Ahaziah; and, after complying with it, Eliezer duclared, that was the reason why the power of God was exerted to defeat the undertaking.

See Strabo (lib. xvi. p. 781.) where he mentions expressly the course of the caravans from Leukè Komè to Petra, and from Petra to Rhinocolúra. Rhinocolúra is the limit be-

tween Egypt and Paleline—the El Arith, formuch noticed during the continuance of the Prench in Egypt. The dillance may be compared with that between Elana and Gaza (p. 759.), which is flated at 1260 fladin, or 160 miles. Rhino collora is a Greek term, derived from the practice of cutting off the nofes of the malefactors fent to garrifon this frontier of Egypt.

commerce subfifted still in Phomicia, and that Berytus and Tyre "
were celebrated for their manufactures of fillt, glass and falt, however obscured by the splendour of Alexandria, and the establishment
of that city as the centre of Oriental commerce under the power of
the Romans.

Over fuch a feat of mercantile power, opulence, and magnificence, at the period when it was ready to be overwhelmed by the invalion of the Babylonians, we may be allowed to breathe the fight of committenation, however we refign ourfelves to the jurtice of Providence in its destruction; idolatry, pride, luxury, and intemperance, we learn from the following chapter, were the cause of its punishment, and the instrument commissioned to inslict it, was an oppressor equally idolatrous and proud.

It remains only to fubjoin the authorities, on which, known appellations have been fubfittuted for Hebrew terms; on this head, if complete fatisfaction is not attainable, we may, at leaft, hope for fome indulgence, and much deference to the names of Bochart, Michaelis, Houbigant, and Archbifhop Newcombe, the learned translator of the Prophet; and if I fometimes interpose a suggestion of my own, let it be considered as a conjecture, and subject to the corrections of those who are better qualified as judges of Hebrew literature than myself.

" See Lowth on Ifaials, c. xxiii, laft note.

#### COMMENTARY

# EZEKIEL, C. XXVII.

The four first verses represent to us the situation of Tyre: it is placed at the entering? in of the sea—in the midst of the sea—in the heart of the seas; expressions which seem to intimate that the city wason an island but the general opinion of the commentators places it on the main, and call it Palæ Tyrus, or Old Tyre, in contradistinction to the new city, which rose on the island out of the remnant of the inhabitants that sled from the king of Babylon. Its splendour is described as persented in beauty.

V. 5. Senir furnished fir for ship boards (planking); and Lebanon, cedar for masts.

[Sanir, vulgate, feptuagint.

Firs, rendered cedars, fept. but firs, vulg. Chald. Newcombe.

Cedars, rendered cypress, sept.

Cedars, ואה, arez. Michaelis fays, the prefent inhabitants of Lebanon use און און for a tree that answers to the cedar. See Parkhurst in voce און, and in ברושום, firs.]

Senir is part of Hermon (Deut. iii. 9.) "Hermon the Sidonians " call Sirion, and the Amorites call it Shenir." (1 Chron. v. 23.)

- " Manasseh encreased from Bashan to Baal Hermon, and Senir, and
- " Mount Hermon. Newcombe."-Hermon is a branch of Antili-

<sup>&</sup>quot; Newcombe's Translation. Is Palæ-Tyrus on a rock?

<sup>&</sup>quot; See Bochart, Phaleg. 303, where its oriand Syria, fignifies a rock. May it not be the rock in the fea on which Tyre was built?

banus, from which the fprings of Jordan iffue; and thus very properly joined or contrafted with Lebanon. Lobanon figuifies white, and fnow lies upon Lebanon in funmer.

V. G. Bafhan produces oaks, for oars. Bafhan is the Batanêa of the Greeks, eaft of the fea of Galilee, poffeffed by the half-tribe of Manaféh. "We do not readily fee why cedars should be "adapted to masts, or oaks used for oars. Cedar, however, is "light; but oaks have neither elasticity or levity, but strength only. Houbigant alone renders it alders, for this reason." Abp. Newcombe.

Bath-Ashurim, rendered Ashurites in our English Bibles: but in the margin, Chaldee and Parkhurft, box tree: as if from ראשור Thathur, and fo בחאשרים Bathathurim, in one word. The whole fentence would then fland thus, as Archbp, Newcombe renders it: "Thy benches have they made of ivory, inlaid in box, " from the ifles of Chittim." The Chaldee fcems to refer these to the ornament of houses, &c.; but the vulgate has, expressly, transfra, or the thwarts of gallies; and our English Bible, batches in the margin. Chittim is applied to Cyprus by Josephus-to Macedonia, in the first book of Maccabees; but to Italy and the islands round it, particularly Corfica, by Bochart. Lowth on Ifaiah xxiii. confiders Chittim as comprehending all the ifles and coasts of the Mediterranean; and Jerome, as the islands of the Ionian and Egean Sea. The latter appear to correspond best with the importation of box wood from Cytorus in the Euxine, the place most celebrated. poetically, for that production; and the box wood of Pontus and Afia Minor is imported at this day into the Port of London, from Smyrna. The Chaldee renders it Apulia, and the vulgate, Italy.

V. 7. Fine

- V. 7. Fine linen of various colours, from Egypt, was used as a fail or rather, as a slag for ensigns. (Vulgate, Chaldee, Newcombe.) Scarlet and purple, from the Isles of Elisha, for a covering or awning to the gallies. Scarlet is rendered by Hyaciuthus in the vulgate and Chaldee, that is, the colour of the Amethyst; and the Isles of Elisha are Elis, Hellas, or Peloponnesus. The purple of Laconia was the finest dye next to the Tyrian; and the purple cloth of that province was possibly employed, because it was cheaper than that of Tyre, which was reserved for the use of kings. Elisha is one of the sons of Javan (Gen. x. 4.); and as Javan is the general title for the Greek nation, Elisha may justly be taken for a part. (Bochart, Phaleg. 155.)
- V. 8. Zidon and Aradus furnished mariners, but the pilots or commanders were Tyrians: "Thy wife men, O Tyrus, that were "in thee, were thy pilots." Zidon is too well known as the parent of Tyre, to require further notice; but Aradus is on an island like Tyre, at the mouth of the Eleutherus, to the north of Tripolis, and much celebrated for its commerce by the ancients. In the modern title of Ruad, it preserves a nearer resemblance to the Hebrew Aruad, than to the Greek Aradus. Bochart (Phaleg. 305.) gives a large account of this place from Strabo, lib. xii. 733. consisting of many interesting particulars.
- V. 9. The ancient inhabitants of Gebäl were caulkers in the harbour of Tyre: they were mariners likewife, bringing merchandize to that city (Chaldee), or failing in the Tyrian fhips to the westward of the West; int buryaic buryais (in occidentem occidentis, septuag.); to the extremity of the West. Perhaps we find a rudiment of this reading in the Hebrew; for Archbp. Newcombe ob-

ferves, that five manuferipts read my layarobh, the evening, or welf, which the fept followed, probably inftead of my layabhar, beyond. If this could be admitted, the extremity of the Weft would at leaft be Spain, and might be Britain. Gebal, according to Bochart, is Biblos; and Gebail is the name of that place at this day, according to the polition of d'Anville in his Map of Pheenicia. Laodicææ propinqua funt oppidula Pofidium, Heraclium, Gabala deinde Aradiorum maritima regio. (Bochart, 303. from Strabo, lib. xii. 753.)

V. 10. Persia, Lud and Phut, furnished foldiers for the armies of Tyre.

V. 11. The Aradians and Gammadim formed the garrifon of the city.

Perfia and Arádus are felf-evident. Lud and Phut are rendered Lydians, and Libyans or Africaus. (Vulg. fept. and Chalded.) But Bochart and Michaelis think Lud an Egyptian colony, from Gen. x. 13. where Ludim is the fon of Mifraim; and Mifraim, the fon of Ham, is Egypt. Bochart, however, confiders Lud as both Lydia and Africa; but joined with Phut, as it is in this paffage, it is more applicable to the latter, for Phut is the brother of Mifraim. (Phaleg. 294.)

In this circumflance we find, therefore, that Tyre, like its colony Carthage, employed mercenary troops while the natives were wholly, addicted to commerce. Gammadim is rendered Cappadocians. (Chaldee.) Medes. (fept.) Pigmees. (vulgat.) (from 'Di Gamal, fefquipedales.) and Phœnicians. by Newcombe, but he adds Gamarim or Gomerim is in 8 MSS. and Gomer according to Bochart is Phrygia (p. 172.) the true meaning feems irrecoverable. Still we

may fee that the Persian and African 10 mercenaries were for foreign fervice; and the Aradians as joined in the fame commercial interest were entrufted with the defence of the city.

V. 12. Tarshish was a merchant in the multitude of all kind of riches, and traded in filver, iron, tin and lead; the mention of tin naturally fuggefts the idea of Britain, and that the Tyrians did come to Britain, is afferted by the general testimony of the ancients: but what Tarshish is, remains to be determined after all that has been written by every author that has touched upon the fubicat. Bochart has no doubt of its being Tarteffus" in Spain, near the Straits of Gibraltar, and the articles of filver and lead might doubtless be procured in that country; but whether tin could be collected there as a general cargo is highly dubious; for though Diodorus mentions that tin was found in Spain, the bulk of that metal was only obtainable in Britain; and as it is univerfally confessed that the Tyrians visited Britain, they might rather have gone thither to purchase it at first hand, than buy it in Spain, where it must have been enhanced by the expence of importation, and the profit of intermediate merchants. Be this however as it may, it is evident by the articles mentioned, that this was a western voyage, and so far whether to Spain or Britain is immaterial, for the great difficulty is, that Tarshish in scripture as clearly applies to an eastern voyage down the Red Sea, as to a western one towards Spain; this appears in the

Mofes, before Tarteffus could be in exillence.

He thinks Tarshish fignifies gold, or a stone

the colour of gold, the chryfolite or topaz;

and that the voyage of Tarshish had a reference

to this, as gold and precious flones were the

<sup>30</sup> The modern Carthage, as the French call England, is faid to be raifing at this time a body of Africans for fervice in the West Indies. The omen is not aufpicious, and the

defign is probably abandoned. Lamy objects to this very juftly, that produce of it. See Introd. al'Ecciture, cap. iv.

Tarshish is mentioned as a precious stone by p. 425.

voyage mentioned in the first of Kings (x. 2.1) "Solomon had at "sea a navy of Tarshish with the navy of Litram." This was in the Red Sea, and brought a very different cargo—gold, filver, ivory, apes and peacocks, (2 Chron. ix. 21.) and (again xx. 36.) Jehosaphat joined with Ahaziah to make ships to go to Tarshish, and they made ships in Eziongeber; so likewise, (1 Kings, xxii. 48.). Jehoshaphat made ships of Tarshish to go to Ophir for gold; and as the whole of this, by the mention of Eziongeber, directs us east to the Red Sea; so does the slight of Jonah as evidently direct us to a voyage west, on the Mediterranean, for the Prophet takes shipping at Jopa in order to she to Tarshish.

For the purpose of reconciling these two opposite ideas, M. Goffellin supposes, that Tarshish means the sea in general, and he likewise supposes two voyages eastward, one to Ophir in Hadramaut, and another to Tarshish, which he states as no distinct place; but that the expression intimates a coasting voyage down the African side of the Red Sea, in which they touched at several different ports, and were delayed by the change of the monstoon. The former part of this hypothesis, that Tarshish signifies the sea in general, I wish to adopt; and there is little to contradict this opinion, except the verse isselfs now under consideration; but in regard to two eastern." voyages, one to Ophir, and another down the western side of the Red Sea at large, I have great doubts; I shall, therefore, first collect the suffrages of the interpreters, and then compare the principal texts of scripture concerned; after this, if the difficulty is

<sup>&</sup>quot; I Kings, xxii. 48. " Jehoshuphat made to Ophir; and this concludes against the two "hips of Tharshis to go to Ophir for gold." " syages of Gosfellin, one to Ophir and one to Here the ships of Tharshis are those that go Tharshis to

fill incapable of folution, no blame will attach to a failure which is common to fo many writers of erudition and differnment.

Tarshish is rendered Carthage in the vulgate; but the objection to this, is, that though tin and lead might be purchased in Carthage, as platina and tutaneg may be obtained in London, yet this is not enough; the whole chapter specifies the distinct produce of the several countries, and not the places where the produce might accidentally be found.

The feptuagint render it Chalcedon ", which is a city on the Bofphorus; but this feems to have arifen from a reference to the first fense of Tarthish, which is a precious stone, (Parkhurst fays the topaz) but, however, it may be doubtful whether a Chalcedony (which is an agate) or whether a topaz is meant by the septuagint. The rendering of Tarshish by Chalcedon is evidently an allusion to the name of a precious stone.

The Chaldee Paraphrase says expressly מני מא Min yama; de mari adducebant mercimonia, which is in conformity with Gossellin's opinion.

The English Bible and Newcombe's translation preserve the Tarshish of the original.

Let us next observe the usage of this term in scriptume. It occurs' first in Gen. x. 4. where the sons of Javan are Elishah, Tarshish, Kittim and Dodanim. Now Javan is the general name for lones or Greeks, and his descendants ought to be the division of that nation, as the sons of Misraim, (Gen. x. 13.) are the distinctions of the tribes of Africa. In conformity to this, Elishah has been rendered Elis, Hellas, or Peloponnesus; Kittim the Greek Isles, or per-

23 Kahendar and Kanzahdar are easily inter24 Daniel, viii. 21. 111 9713 Melek Javan changed.

the King of Greeia, id. x. 20. xi. 2.

haps Macedonia; and Dodonim Dodona, or the western fide of Greece towards the Hadriatic. What then would be Tarthith? Bochart and others are not content with this; he supposes Kittim to be Italy, and Rodanim" for Dodanim, to be Gaul about the Rhodanus or Rhone, and Tarthith to be Spain; that is Tarteffus. Parkhurft likewife admits Tarteflus, and Michaelis imagines, that the flect fitted out at Exiongeber, circumnavigated the continent of Africa to reach Tarteffus by the Indian and Atlantic Ocean. This folution he affumes, because the voyage was of three years continuance, and because Solomon had no ports on the Mediterranean. The latter reason cannot be admitted while Solomon and Hiram had a joint concern; for during that union, the fleet might have failed from Tyre. But the three years allowed for the voyage are not fufficient, if calculated by the voyage of the Phœnicians fent by Neco. which is probably the ground of Michaelis's estimate; for they were three years in reaching the Mediterranean; and confequently the voyage round Africa to Tarteffus, and back again, would require not three, but fix years for its completion.

Upon a view of these difficulties, if we should return to Javan, and wish to establish all his family in Greece, we ought to find a situation for Tarshish in that country; and if this cannot be done, it must be confessed that the position of Tarshish cannot be discovered by the text of Genesis the tenth. Omitting this, therefore, for the present, we may proceed to other passages connected with the subject of inquiry.

It has been proved already (from 1 Kings, xxii. 48.) that the ships of Tarshish built by Jehoshaphat at Eziongeber, went east to Ophir,

<sup>&</sup>quot;Rodanim is not merely an affomption of the margin of our English Bible. The daleth Bachart's; it is read in several MSS, and in and resh are easily interchanged; 7 for 7.

and (from Ionah, i. 3, iv. 2.) that Ionah, by embarking at Ionna, fled westward on the Mediterranean. Now the sea is common to both thefe voyages, but no one specific place, country, or city, can be common to both; and upon a careful examination of all the passages adduced by Gossellin, and all that are to be found in the concordance, there is not one which may not be rendered justly by the fea, as Goffellin has afferted. The Vulgate and the Chaldee vary in different places, but the prevailing construction is mare or maria: and the Vulgate (on the I Kings, x, 2, xxii, 40.) has ships of Africa, which might give rife to the opinion of Montesquieu and Bruce, that Ophir was at Sofala; but Africa is itself a suspected term in Hebrew; for it is Latin, not used by the Hebrews, whose phrase was Lubim, and little by the Greeks 1, who adopted Libya from the same origin; but in the Chaldee it is in so many letters אפריקה Africa ( r Kings, xxii. 40 ), and this term is doubtless, in comparison, modern. The other texts are, if any one should wish to examine them. (2 Chron. ix. 21, xx. 26, 27. Psalm xlviii, 7. Thou breakest the ships of the sea, lxxii, 10, the kings of Tharsis; kings beyond sea in Sabêa. Is. ii. 16. xxiii. 1. the burden of Tyre, howl ve ships of Tarshish, naves maris. Vulg. Chald. ibid. ver. 6. País ve over to Tarshish, transite maria, Vulg, Chald, and at ver. 10. Tyre is called daughter of Tarshish בת הרשיש Bath Tarshish, daughter or virgin of the fea, Filia maris. Vulg. And what appellation can be more proper, for fuch a city which owed its existence to the fea? If. lx. o. thips of Tarthith, naves maris. Vulg. Chald. lxvi. 10. I will fend them that escape to Tarshish, ad gentes in mare. Vulg. ad provincias maritimas. Chald.)

<sup>25</sup> Perhaps never till after their connection with Rome.

Upon the evidence of all these passages, there is no hesitation in fubfcribing to the opinion of Goffellin, but his double voyage down the Red Sea is by no means equally apparent. There is likewifegreat reason to adopt Parkhurst's idea, that they were large and ftrong fhips, fit for diffant voyages; or if the reading of the feptuagint (Ez. xxvii. 9.) could be admitted, we might add, that they were front enough to pass ( and durmas durman durman) to the extremities of the west, to the Atlantic and Britain; or to the east, through (Babel Mandeb) the Straits of Death, and fo to the fonthern coaft of Arabia. This account we have from feripture, and it is clear; but the voyage to Britain, though generally admitted, is far more problematical, for the evidence of Strabo of goes only to prove, that a Phenician veffel was run afhore in order to deceive the Romans. which must relate to a much later period; and the testimony of Diodorus Siculus as intimates, that even in his time, tin was broughtfrom Britain, through Gaul, by a land carriage of thirty days, to the mouth of the Rhone, or perhaps to Marfeilles. Still that the Tyrians did obtain tin is manifest from Ezekiel, and that they passed the Straits of Calpé, and reached Gades at leaft, is certain, for the temple of Hercules in that ifland was the Mclcartha 29 of Tyre, whom, from his attributes, the Greeks styled the Tyrian Hercules.

V. 13. Javan Tubal and Methoch dealt in flaves and vessels of brass, intimating probably that they all dealt in flaves, for flaves came out of the Euxine and the countries round it in all ages into Greece, and still

3

to observe, that this term is not used in the werfe under contemplation, but in v. 9. I with to find any where an extreme western woyage, to Gades or to Britain, which I must confeis

<sup>\*\*</sup> That we may not militad, it is necessary is not perfectly clear observe, that this term is not used in the '7 Strabo, lib. iii. p. 175.

<sup>\*</sup> Lib. v. 347. West. \* Melcartha is Melck Cartha, the King of

come to Constantinople. The Greeks of course carried these or others which they obtained by piracy to Tyre as well as other maritime cities. Brass vessels will apply more particularly to Tubas and Meshech, which are usually rendered Tibareni and Moschi, who, with the Chalybes and other inhabitants of the north-east angle of Asia Minor, have been in all ages, and still are the manufacturers of steel, iron, and brass, for the supply of Armenia, Persia, Greece, and all the eastern countries on the Mediterranean. (See Busching and Michaelis cited by Newcombe on this passage, and Bochart.) Tubal and Meshech are generally mentioned together in scripture, and Tubaleni is as naturally Tybareni, as Mesheck, which the Chaldee reads Moscok, is Moschi, while Javan, Tubal and Mesheck are all sons of Japhet. (Gen. x. 2.)

V. 14. Togarmah traded in horfes, horfemen and mules, which Bochart fuppofes to be Cappadocia, (p. 175, Phales.) but Michaelis with much greater probability, Armenia, for Armenia and Media were the countries where the kings of Persia bred horfes for the service of themselves and their armies, and in later times Armenia paid its tribute from this source. See Newcombe, who cites the Greek Scholiast on Ezekiel, and Ez. xxxviii. 6. The Chaldee renders it unaccountably by Germania. The objection to assume Armenia for Togarma, is, that Armenia is in every other passage represented by Ararat. (See particularly 2 Kings, xix. 37. and Isaah, xxxviii. 38. and Jeremiah, li. 27.) I have not had an opportunity of consulting Michaelis Spicileg. Geographicum, and can judge of it only as it is cited in Newcombe.

Ver. 15. Dedan is mentioned in conjunction with the merchants of many ifles; they brought horns (tufks) of ivory and ebony.

AA 2

Dedan

Dedan is ffrangely rendered by the feptuagint Rhodians. They must. therefore, have read a resh for a daleth; but Dedan 34 is doubtless on the fouthern coast of Arabia, for he is mentioned (Gen. x. 7.) with Seba, Havilah, Sheba and Raamah, all nations of Arabia and on the fouth. There is still a Dadena on the coast of Oman, oppofite to Cape Jasque; and a Rhegma, within the Gulph of Persia, not far from Mocandon, is found in Ptolemy, corresponding with Raamah or Rahmah, in the opinion of Patrick. Without, however, infifting on these resemblances, we may be certain of the country from the other names with which it is united, and its produce; for ivory and. ebony are furnished only by India and Africa, and the province of Oman deals with both. If we read borns of ivory, with our English Bible, they are the tu/ks refembling-horns. If horns and ivory, with archbishop Newcombe, the horns from the ifles may be tortoise-shell. peculiar to the ifles of India; and chony, if Virgil be good authority. is found in India and nowhere elfe.

Sola India nigrum,

Fert Ebenum. Georg. ii. 117. Newcombe.

It is evident, therefore, that we are here first introduced to Oriental commerce, and from this verse to the 25th, every article specified is from the east, and every place mentioned, is to the east of Tyre, or connected with the trade caftward. To those who have a curiofity on this fubject, this is the most remarkable fingularity of the chapter, and the eftablishment of the fact will be felf-evident. The Chaldre renders horns by cornibus caprearum, and adds pavones, from the general ac-

" I follow Bochart and Michaelis in placing the Teliama, or coast of Arabia, on the Red Sca; and Efau is in Hedjaz. This makes a. think they are right; but Dedan is mentioned difficulty; but the countries mentioned with with Tema, Jer. xxv. 23. and with Efau, Dedan, and the articles imported, indicate the

Dedan on the eastern coast of Arabia, and I zlix. 8. Tema is by Niebuhr fupposed to be fouth-east angle of Arabia.

counts of the voyage to Ophir, but neither of these additions is justified by the text.

V. 16. Syria was the purchaser of the manufactures of Tyre: and the Syrians brought in return, emeralds, purple, embroidered work, fine linen, coral, and agate. Syria, in the original, is Aram or Aramêa; and Aram, in scripture, is sometimes Mesopotamia fometimes Damascus 11, and likewise the country about Libanus, and the Orontes. Emeralds, fine linen 32, coral, and agate, are doubtless from the East; but as to the appropriation of these names specifically to different precious stones, it is quite indeterminate. Fine linen, and embroidered or variegated work, may be the cottons or muslins from India, but is too general a term to be depended on. Still, upon the whole, we may imagine, that all these are articles brought by land from the Gulph of Persia, through Mesopotamia or Damascus, in exchange for the manufactures of Tyre. Purple and fine linen are frequently united in the language of Scripture and the usual interpretation is, fine linen of a purple colour; of this, though Michaelis fays purple would not be brought to Tyre, but exported from it, there might be an importation (see Newcombe in loco) from India through this channel.

V. 17. Judah and Ifrael brought to Tyre wheat of minnith 3, or fine wheat (Vulg. Sept. Chaldee), and pannag, perhaps panicum, millet or doura, with honey, oil, and balfam. There is little fluctuation in the verifons; and though pannag may be dubious, the other articles are the natural produce of Judah and Ifrael; and balfam is

dered fine linen, is supposed every where to cation here.

<sup>2</sup> Aram-Damafek is Damafeus, the proper be cection.
2 Minnith occurs in no other paffage. 
from Jericho, where the plant which produces it grew in Manndrel's time.

V. 18. Damafus received the richeft manufactures of Tyre, in exchange for wine of Helbon, and white wool, that is, wool in the fleece or unwrought. If Tyre bought wool in the fleece, and manufactured it, it is the fame policy as Flanders adopted formerly in regard to the wool of England. The wine of Helbon is the Chalybon of the Greeks; the kings of Perfia drank no other. (Newcombe from Strabo.) Syrian wine is tilll celebrated, and Laedicean wine is an article of commerce in the Periplus. The Eattern name of Aleppo is fill Haleb; and Haleb, Halebon, or Chalybon, are only varied by different afpirates or Greek terminations. The river Chalus, which Xenophon mentions in the expedition of the ten thoufand is, muft be near the prefent Aleppo, or the very flream which at this day fupplies that city with water. Damafus lies upon the route from Aleppo to Tyre; and to Aleppo the diffance is about double that to Tyre.

V. 19. Dan and Javan, going to and fro, brought iron", and caffia, and calamus: the two last articles are evidently Oriental, and Indian iron is likewise a part of the Eastern invoice in the Periptus. We are therefore to look for this Javan, not in Greece, as before, but in Arabia, and to point out the distinction between the two Javans. The adjunct of the name, rendered in our English Bible going to and fro", is in the original Me-Uzal; and Uzal is explained by Gen. x. 27. where Uzal is the son of Joktan, joined with Hazar-

<sup>\*\*</sup> See Cyri Exp. p. 234. Leund. See alfo Tigris and Euphrates.

\*\* Bright or wrought iron, in the original.

\*\* Evon 77% azul, to go.

mayeth (Hadramaut), Sheba, Ophir, and Havilah; all which we know to be in Arabia, and confequently Javan 17. Me-Uzal, is for likewise. It is unwillingly that I drop the sense of going to and fro, because it expresses the practice of a caravan; but the retaining Uzal as a proper name, is justified by the Vulgate 18 and Sept. and approved by Newcombe, and Michaelis, who adds, from Golius, Azal nomen Sanaæ quæ metropolis Arabiæ felicis. Michaelis alfofupposes Dan to be Vadan, and a city of Arabia; but of Vadan 39 there are no traces in Gen. x .; if it is Dan, one of the tribes of Mrael, his fituation is between the Philistines and Joppa, placed very commodiously for receiving the caravans from Arabia in that age, which came to Rhinocolûra in a later; and equally convenient for embarking at Joppa the commodities brought by the caravans to be conveyed to Tyre. Be this as it may, the traffic is undoubtedly. Arabian, and from the fouthern " coaft; for (mp) khiddah, is caffia, the cassia lignea of the ancients, from (70) khad, to cut or divide lengthways, in contradiffinction to kasia fistula ", the pipe cinnamon, which we now prefer. The (קנה) khanch likewife, or reed, if it be the calamus aromaticus, is of Indian growth. There can be no doubt therefore remaining, but that this verse fully establishes the intercourse of Tyre with India, through the intervention of Arabia; and no doubt that the Arabians went to India, or ships of India came to Arabia. This circumstance consequently must have taken place previous to the fiege of Tyre, at latest " 560 years before Christ;

<sup>55</sup> See Parkhurft in 77. Khadh.

<sup>&</sup>quot; Mozel, vulg. Moozil, fept. Turnatim, Chald.

may be Vadan, or and Dan.

<sup>&</sup>quot; Hazarmayeth, Havilat, Ophir, and Sheba,

are all on the fouthern coalt. Hauilah is sup-

posed to be Chaulonitis in Oman; so David is Daoud, in Arabic.

<sup>. 41</sup> See Parkhurft in voce, and the catalogue in the prefent work, under kafia.

<sup>&</sup>quot; Coeval with Pithfratus, in Greece.

and this passage is therefore the most ancient record of the trade between India and Arabia, which can be called IISTORICAL; for though spices are mentioned frequently, that term is not decisive, as all the gums and odours of Arabia are comprehended under that name. Ginnamon, kasia, and calamus, alone prove an Indian origin; and notwithstanding these are noticed by Moses, David, and Solomon, the conveyance of them by caravans from the southern coast of Arabia is no where specified, till we arrive at this passage in Ezekiel.

V. 20. Dedan imported precious clothes for chariots. Dedan is introduced before (v. 15.): it may be the fame country again, that is, Oman. But in this verse there is nothing to express whether these clothes are a manufacture, or an import from countries farther to the east.

V. 21. Arabia, and the princes of Kedar, purchased the sabrics of Tyre, and brought in return, lambs, rams, and goats. By the princes of Kedar may be understood, the shelks of the tribes of the Sahara or Desert: they lived in tents; and these tents were black, made of selt, perhaps, as they still are. Kedar signifies black, and Bochart concludes from this, that they were Arabs burnt by the sun; but that it refers to the tents is evident from Canticles, i. 5. I am black, but comely "as the tents of Kedar. These, therefore, are the Arabs of Hedjaz; they have no fixed habitation, but wander throughout the Sahara "; and their only wealth, besides what they obtain by robbery, consists in their slocks and herds. The produce of these they brought to exchange for the manufactures of Tyre.

<sup>49</sup> See the Song of Maifuna, wife of Moa-Arabs of the Defert, which prefemts a true picture of the manners of the facts a true picture of the manners of the

V. 22. The merchants of Sheba and Raamah brought all kinds of the finest odours, precious stones and gold. Between Sheba (with thin) and Seba (with famech) there appears a diffinction; for Sheba is a descendant of Shem, and Seba of Ham, Gen. x. Seba is, by fome, taken exclusively for Sabêa, but both are in Arabia. The mistake, however, of one for the other, is natural, as there is a Sheba " alfo, great grandson of Ham. Mentioned, however, as Sheba is in this passage with Raamah, and connected as it is with Dedan (v. 20.), we may conclude that the great grandson of Ham is meant, the fon of Raamah, who is fon of Cush. Cush, likewise, is much more properly attributed to Arabia than Ethiopia, though frequently rendered by Ethiopia in our English Bible. If this may be esteemed a clue to guide us, we may place this Sheba, with Raamah 46 (Rhegma) and Dedan (Daden), towards the fouth-east angle of Arabia, that is, in Oman; where fpices, drugs, odours, gold, and precious stones, might readily be conceived, partly to be the native produce of the province, and partly imported from India. Of precious ftones there can be little doubt; and that gold fhould be brought from India, is a circumftance in conformity with the Periplûs; for if the merchant carried filver to the Indian market, he had a confiderable profit by exchanging it for gold.

V. 23, 24. Haran, Canneh, Eden, with the merchants of Sheba, Afhur, and Chilmad, traded in blue clothes, broidered work, or work of various colours—in chefts of rich apparel, made with cedar and bound with cords.

<sup>\*\*</sup> Compare Gen. x. 7. with the fame Ragma in the Sept.; both advancing a ftep class. 28.

\*\* Raamah is Rema in the Vulgate, and by the y grain in 17237 Rhayema.

That this expresses generally the trade with Mesopotamia and Affyria there can be little question; but Sheba mentioned again with these places, canses great obscurity. It may be too much to fay, that these articles came up the Gulph of Persia, from Sheba or Oman to Babylonia and Mesopotamia, and thence by caravans to Tyre; but the chests of cedar bound with cords do certainly seem to imply some great caution adopted for the preservation of the clothes, which appear very precious, and highly ornamented. This caution seems more necessary for a conveyance over land, not only to prevent injury to the goods, but robbery likewise.

But Michaelis, as I learn from Archbp. Newcombe, goes counter to this whole fupposition. With him, Haran is Haran-al-carin in Arabia; Canneh is the Kanè of Hadramaut; Eden is Aden in Sabéa, or Yemen; Sheba is a different place from Sheba in the verse preceding, and Chilmad is left undetermined.

But to me it appears, that in the preceding veries we have gone round the whole coaft of Arabia, from well to eaft—from Hedjaz to Sabèa, Hadramaut, and Oman; and that we are now brought up the Gulph of Perfix to the Euphrates and Tigris—to Babylonia, Melopotamia, and Affyria; making thus a circle of that vaft peninfula, and comprehending all the countries connected with Tyre to the eaft. Against such authority as Michaelis, I must not stand on my desence with my own forces, but call in auxiliaries, who have as high a claim to consideration as Michaelis himself.

The fingle name of Afshur, enumerated with the other places in this paffage, is sufficient to convince us that they are not in Arabia, but Affyria; for Afshur is the son of Shem (Gen. x. 21.), joined

with Elam 47, Elymais, or Perlia, and Aram, Aramêa, or Syria; and the invariable usage of Afshur for Affyria, does not admit of altering its application in this fingle passage. Haran and Eden are mentioned in conjunction (2 Kings, xix. 12, Bochart), and Haran. written Hharan or Charan in the original, is Charræ near Edeffa. celebrated for the defeat of Craffus in later times, and more anciently for the refidence of Abraham (Gen. xi. 21.), when he left Ur of the Chaldeans, near the Tigris, in his progress towards the land of Canaan. (Bochart, d'Anville.) Eden, Adana, and Aden, is a name found indeed in Arabia and in other places, and its fignification might readily be the cause of this; for the Garden of Eden is the Garden of Delight, and various places, possessed of a desirable fituation, might affume this diffinction; but joined with Haran, as it is here, and in the fecond book of Kings, it must be in Assyria, and no where elfe; for in the latter passage it is put into the mouth of Rabshekah, and Rabshekah was an Assyrian.

Canneh likewife is read Calneh by Grotius, Houbigant, and Bo-chart, (mentioned Gen. x. 10. Ifaiah, x. 9. and Amos, vi. 2.) Michaelis himfelf acknowledges that the Chaldee interprets it of Nifibis in McGopotamia, as others affume it for Ctefiphon. But without affigning it to a particular city, it is fufficient for the prefent purpose that it is in Affyria. The proof of this is express (Gen. x. 10.)—

\*\*Calneh, in the land of Shinar: out of that land went forth "Alshur, and built Nineveh." If therefore Canneh be Calneh,

a Elymais is the original feat of the Permans, or Elana, extended its anne with their fians in the mountains of Loriflan, before they conquelts. The fame mountains were polentended themselves in Perits and Saisna. Isefield by the Collist in later times, and the Xenophon deferibes them in the Cyropadia, Perians are fornetimes called Kufii or Kifii as originally a nation of mountaineers. Eyi- by the Greeks.

this is conclusive; if it be not, this is the fingle passage of scripture in which it is mentioned, and it must be determined by the context. In this predicament stands Chiluad likewise: it is noticed her only; and if we have ascertained Ashur, Charan, and Eden 4, to be in Mesopotamia, in that country must both Canneh and Chilmad be placed.

In regard to Sheba there fail! remains a doubt; for though there are three Shebas or Sebas in Genefis, x. we cannot affign any one of them fpecifically to Affyria. I have offered a conjecture, that this Sheba may be in Arabia, on the Gulph of Perfia, but it is mere conjecture; and if it be not admitted, this alfo, though now undif-coverable, must be affigned to Affyria with the others. But I apprehend that Sheba and Seba are in every other passage of the Scriptures applied to Arabia.

This Commentary, tedious as it must necessarily appear in fomerespects, will, I trust, be acceptable to every reader of curiosity. I have little merit but that of collecting, under one point of view, what is to be searched for in the detached passages of other authors. This might have been done by any one that had equal industry, or an equal desire of elucidating the commerce of the ancients; but it has not been done in a fatisfactory manner by any one, as far as I am acquainted with the subject.

<sup>&</sup>lt;sup>4</sup> Eden denotes a particular country or universally affigned to Mesopotamin. See Bodiliridi. Gen. ii. 8. "God planted a garden chart, Differtat de Paradiso terrestri, p. 9. & eastward in Eden." And Eden, by the Hardouin, Plin, tom. i. mention of Tigris and Euphystes, v. 14. is

In the profecution of this inquiry, I have felt much interest in tracing the channels which commerce opened for itfelf, after the Tyrians had no longer access to the Red Sea, or the means of making the vovage to Ophir in their own ships; and I think it appears evident that they had a communication by land with all the three fides of Arabia, as well as with the countries farther eaft. through the intervention of Arabia, of Affyria, and Babylonia. That the commodities of the East will bear a long and expensive land-carriage, we may be affured by the caravans which traverfed the whole continent of Afia, from China to the Mediterranean, in former ages; and those which pass between the same empire and Rushia at the present day. That the Tyrians should be employed in the fame concern, is natural, from our knowledge of their commercial spirit, and from the profits of their monopoly in regard to Europe. Whether the knowledge of these gains, or the thirst of conquest, induced Nebuchadnezzar to destroy this city, may be queflioned; but I have already shewn that he had improved the navigation of the Tigris, and established a port on the Gulph of Perfia. In this there could be no object but a communication with the East; and when the Babylonian empire funk under the power of Perfia, Tyre rofe again out of its ruins, because the Perfians were neither navigators or merchants, and because the sleets of Tyre were effential to the profecution of the conquests of the Persians towards the West.

The destruction of Tyre is foretold by Isaiali (xxiii.) and Jeremiah (xxv. 22. xlvii. 4.), as well as by Ezekiel, who employs three chapters upon the subject, and enters far more minutely into particulars. In the twenty-eighth chapter he declares, the pride of this

devoted city, whose sovereign boasted, "I am a God;" "I fit in "the feat of God, in the midst of the seas;" "I am God" (v. 9-1); and whose luxury made every precious stone his covering—the fardus ", topax.", ruly, diamond, beryl, onyx, jasper, siapphire, emerald, and carbunele, set in gold (v. 13-). The various rendering of these in different translations, will prove indeed the little dependance there may be on our knowledge of the Hebrew terms; but will still leave an impression, that they are imported from countries farther eastward, whence most of the precious stones still come, and will prove not only the value, but the direction of the commerce."

With these observations I close the review of this extraordinary prophecy relating to Tyre and its commerce; and if the Periplüs affords us the means of tracing the countries it describes, by the specification of their native produce; equally appropriate, or more abundantly so, are the articles contained in the enumeration of the Prophet; the latter part of which coincides most effentially with the detail in the Periplüs, and establishes the consistency and veracity of both.

Sco Lamy, Introduck à PErriture, e.i., p. 445. who has all that can well be fail on the failyd? † but the Hebrew names of jewels are chekly therefore names of jewels ance, and are therefore indeterminate; hunden is red, and may be the ruley juffpaki has the found of jufper and jopphir is leff evicient. I wish [25] \* Indoluse, which Purk. Buttle driver from halans, to firste, could be aftertained for the diamond; and might we not fareth the root fareth far

to irradiate, thine, or gliften. Halil, he adds,

denotes the Morning Star, from its vivid folendour.

<sup>38</sup> The fifth is one of the jewels in the bread, plate of the high-pitch, which (compared with John, Rev.) Lamy concludes to be the chrypole is the signe marine, or those that is the colour of fea-water, and that in this finel Tarkfifth the jewel a spephed to Tadhilli the fixed, a pophed to Tadhilli the fixed, p. 431. It is trustered chryfaltie or topax in this pallage of Eachiel.

To the public I now commit the refult of my inquiries. In zeturn for the labour of many years, the only reward I am anxious to obtain is, the approbation of the learned and ingenuous: if I fail in this object of my ambition, I must confole myself with the reslection, that my own happiness has been encreased by attention of a favourite pursuit, by the aequisition of knowledge, and by the gratification of a curiosity almost coctaneous with my existence.

#### DISSERTATION III.

ON THE NAVIGATION AND COMPASS OF THE CHINESE,

BY

THE RIGHT HON. THE EARL OF MACARTNEY.

N. B. At p. 257, this Differtation is mentioned improperly as No. 1.

IN my Journal of 11th August 1793, I gave some account of the junkas and shipping employed by the Chinese, and expressed my astonishment at their obstinacy in not imitating the ingenuity and dexterity of Europeans, in the built and manecurve of their vessels, after having had such striking examples before their eyes for these 250 years past: but I must now in a good measure retract my censure upon this point; as, from what I have since observed in the course of my several voyages on the rivers and canals of China, I confest that I believe the yachts, and other craft usually employed upon them for the conveyance of passengers and merchandize, and the Chinese boatmen's manner of conducting and managing them, are perfectly well calculated for the purposes intended, and probably superior to any other that we, in our vanity, might advise them to adopt.

With regard to veffels of a different kind for more diftant voyages, to Batavia, Manilla, Japan, or Cochin-china, I am informed that the Chinefe of Canton, who have had frequent opportunities of feeing our thips there, are by no means infentible of the advantages

they possess over their own; and that a principal merchant there. fome time fince, has ordered a large veffel to be conftructed according to an English model; but the Hou-pou, being apprized of it, not only forced him to relinquish his project, but made him pay a confiderable fine for his delinquency, in prefuming to depart from the ancient established modes of the empire, which, according to his notions, must be wifer and better than those of the barbarous nations, which come from Europe to trade here. It is indeed, as I have before remarked, the prevailing fuftem of the Tartar government, to impress the people with an idea of their own sufficiency. and to undervalue in their eyes, as much as possible, the superior invention of foreign nations; but their vigilance in this respect, and the pains they take for the purpose, evidently betray the conscious fears and jealoufy they entertain of their subjects' taste for novelty, and their fagacity in discovering, and wishing to adopt, the various articles of European ingenuity for use, convenience, and luxury, in preference to their own clumfy, old-fashioned contrivances. The government also probably apprehended danger from our teaching their subjects things of which they are now ignorant, but which they would be willing enough to learn. No precaution, however. can fland before necessity; whatever they want from us they must have, and every day they will want more, and elude all means of prevention in order to procure them. Cotton, opium, watches, and broad cloth, and tin, they cannot do without; and I have little doubt, that in a fhort time we shall have almost a monopoly of those supplies to them.

<sup>&</sup>quot;I am affured that feveral finant young own houses, and when they come abroad, Chinese of Canton are in the habit of wearing cover them over with their usual Chinese acbreeches and stockings, à l'Anglosse, in their courtements.

But to return from this digreffion to the fubicat of Chinese Navigation.-It is a very fingular circumstance, that though the Chincse appear to be fo ignorant of that art, and have neither charts of their coasts or seas to direct them, nor forestass, quadrant, or other in-Brunent for taking the fun's altitude, yet they have for many years past been acquainted with the use of the Mariner's Compass'; they even pretend that it was known to them before the time of Confucius. Be that as it may, the best writers agree that it was not known in Europe till the thirteenth century, nor brought into general use till the latter end of the fifteenth; but whether communicated by Marco Polo on his return from China, or by fome other adventurer, remains undecided. The plan of it, according to its division into thirty-two points, feems to indicate it rather an intended European improvement upon fomething already discovered, than to be an original invention. The Chinese Compass being divided only into twenty-four points, it was cafy to add eight more; and yet, even with this improvement, the European Compass in one respect labours under one disadvantage when compared with the Chinese one; for in the latter the calculations are much easier, each point answering to sifteen degrees, without odd minutes.

Whoever it was that originally introduced the Mariner's Compaſs, as now uſed, of thirty-two points, could not have been extenſively verſed in ſcience; for, long beſore the diſcovery of the magnetic needle, philoſophers of all nations had agreed to divide the circle into 360 equal parts or degrees, a degree-into 60 minutes, a minute into 60 ſeconds, &c. &c. The reaſon, I preſume, of the general

<sup>&</sup>quot; Ting-nan-chin, or the South-deciding Needle.

adoption and continuance of those numbers, is the convenience of their being divisible into integral parts by so many different numbers. The points of our mariner's compass, however, happen not to be among these numbers, for 360 divided by 32, give II degrees, so that, except the four cardinal points and their four bifecting points, all the others converted into degrees, will be involved with fractions, a circumstance of great inconvenience, although thought immaterial by feamen, who have tables for every minute of a degree ready calculated to their hands. Now, it is submitted, whether the Chinese, without any pretentions to science, have not fallen upon a more convenient division of the card of their compals, than the Europeans have adopted, with all their pretentions to science. It is quartered by the four cardinal points, in the same manner as ours, and each of these is subdivided into fix points, making 24 points in the whole card, fo that every point contains 15 degrees, or the fifteenth part of 360.

After all, perhaps a divition of the eard into 36 points would be found more advantageous than any other, for then every point would be equal to ten degrees; half a point equal to five degrees, &c. &c. and fo on.

## APPENDIX.

#### The APPENDIX contains:

- I. An alphabetical Catalogue of the Articles of Commerce mentioned in the Periplûs, with an Account of their Nature and Properties, as far as is requifite for the Elucidation of the Journal.
- II. An Account of the Adulitick Infeription found in Abyflinia by Cofmas Indicopleuftes, a Monk of the fixth Century.
- An Inquiry into the corrupt Reading of the Manuscript, in regard to the Word, Ἐντενηδιωμμενεθιετίως.
- IV. THE Form of the habitable World as imagined by Pomponius Mela, Cofmas, and Al Edriffi.

N. B. As these several Particulars are designed for the values Work when completely they commence again with page 1, and will be accompanied by some other Dispussions on the Winds and Monssons, on the Site of Mered, and on the Limit of ancient Discovery towards the East, with further Inquiries, if authentick Materials can be obtained. The Second Part of this Work will contain the Arabian and East Indian Navigation of the Periplus, with the Pages numbered in order from Part the First.

#### ARTICLES of COMMERCE mentioned in the PERIPLUS MARIS ERYTHREI affigned to ARRIAN.

#### 'Aβολλαι. Abolla.

In this term be Greek, it is remarkable that it should not occur in any Greek Lexicon, and if it is Latin (as apparently it is), it is equally remarkable that a Greek merchant of Alexandria, fuch as the author probably was, should have introduced a Latin' term into his Greek catalogue; but Latin terms crept into purer Greek writers than our author, and commerce perhaps had adopted this, as expressing the actual garment which was neither used by, or formerly known to the Greeks. The Roman Abollá was a military cloke', perhaps not unlike our watch cloke. And the adoption of the word is not more strange than the usage of the English in adopting the French Surtout, or the French adopting the English Redingote (Riding Coat).

<sup>1</sup> The word Abolla is not in Dn Cange. was killed by Caligula, who was a great grand- majoris Abolia. Juvenal.

fon of Antony, non alià de caufà quam quod 2 It feems worn as an outer military cloke edente fe munus, ingressum spectacula converby officers and men of rank. Ptolemy, fon of tiffe oculos hominum fulgore purpureze abelia Juba king of Mauritania, grandion of M. animadvertit. Suet Calig. c. 35. It was like-Autony by Seléne the daughter of Cleopátra, wife a garb of the Philosophers, audi facinus

#### 2. "Αξελοι νόθοι χρωμάτινοι.

Single cloths dyed and imitating fome of a fuperior or different quality. But fee Salmaf, ad Wopifeum,

"AGodos, according to Salmafius (Plin, Exercit, 1062,) are fingle cloths, the same as and orges, in opposition to dintioles, or double; but whether this relates to the texture, to the ornaments wrought on them, or the confideration of their being with lining or without, feems difficult to determine. Our weavers call a filk, that, when the warp is of one colour and the woof of another; and the word "Αζολοι may be literally rendered unflot; but it does not follow that this is an accurate rendering of the term. Homer mentions garments both fingle and double; and Deborah makes the mother of Sifera fay, that her fon had perhaps brought home a raiment of needle work, of needle work on both fides, which is apparently correspondent to the tunick, which Ulyffes deferibes to Penelopé (Od. lib. T. 230.). If this interpretation, therefore, should be admissible, "AGONOS χουμάτειοι may be rendered plain cloths of one colour, and νόθοι would express, that they were of an inferior quality. But see the term διπλοειματος, Diog. Laertius in Diogene, p. 350. Horace. Duplici panno patientia velat. And the address of Plato to Aristippus in Diog. Laert. Ariftip. p. 67. Σοι μόνω δέδοται κ' γλαμύδα φορείν κ' eduos. "You are the only Philosopher who can assume with equal " propriety the dress of a gentleman (χλαμύδα), or the ordinary " garb (ράκος) of a cynick."

#### 3. 'Adapas. Diamond.

The ancients certainly apply this word to our modern gem the diamond, but use it in a larger sense as we still use adamant, applied.

to other hard fubflances. But in the only paffage where it occurs in the Periplûs, it is mentioned on a coast where diamonds very probably were to be purchased, and is joined with the Hyacinth or Jacintly, and other transparent stones.

#### 4. 'Αλόη. Aloe.

There are two forts of Aloe, one a bitter cathartick, and another an aromatick, by fome supposed to be the fandal-wood. See Salm. Plin. Ex. 1056. It is probably used by the author of the Periplus in the former sense, as being mentioned on the coast of Oman in Arabia, where the Succotrine Aloe is naturally imported, as the island Socotra itself was under the power of the Arabs on the main, being subject to Eleazus king of Sabbatha, in the neighbourhood of Oman.

#### 5. 'Aνδριώντες. Images.

These are mentioned as imported into Oman in Arabia, but whether as merely ornamental, or objects of superstition, does not appear.

### 'Αργυρώματα, 'Αργυρα σπέυη, 'Αργυρώματα τετορευμένα. Plate, Plate polified.

These works in silver do not appear to be the beautiful produce of Greek artists, but velicles of plate adapted to the market. By the frequent mention of these articles they must have formed a considerable branch of commerce. 7. Aprevinov. Arfenick.

8. 'Αρώματα. Aromaticks.

Drugs in general are comprehended under this term (Sal. Plin. Ex. p. 1049, 1050).

9. Aσύφη. Afpecies of Cinnamon. See Kassía.

#### В

#### Βδέλλα. Bdellium.

An Aromatick gum, supposed to be imported from Africa, but now feldom used. Salmafius. describes it as a pellucid exudation from the tree so called, not quite clear, of a waxy substance, and easily melted, called by the Portuguese anime; there are three forts, Arabic, Petræan, and Bactrian. It was imported, according to the Periplûs, from Binnagara, or Minnagara [Bekker,] in Scindi, and from Barygaza [Baroach,] in Guzerat.

The norm Bhedolahh of feripture, Gen. ii. 12. Num. xi. 7. rendered Bdellium, is by the Rabbis rendered Chryftal, and has nothing in common with the Bdellium of the Periplûs but its transparency. The word Bdellium feems a diminutive of the Bdella ufed by our author. Pliny, b. xii. c. 9.

There are fill found three forts, two African, rather of dark brown hue, and one Afiatick, answering the descriptions of Salmassus, generally brought to England among parcels of myrth. There are specimens of the African fort in the collection of Dr. Burgess.

<sup>3</sup> Chambers in voce,

#### r

Γίζειρ. Ζέγειρ. Γίζι. A species of cinnamon. See Κασσία. Zigeer in Perfick fignifies finall.

#### Δ

Δικεόσσια, p. 8. Dicroffia.-Cloths either fringed or striped.

Kορσάι and μεροσάι, according to Salmafius', from Hefychius, fignifies the fleps of a ladder, or in another fenfe, the cornice of a wall, or the battlements. Salmafius derives the word from κείρω, to fhave, and interprets κόρσι, locks of hair. Hence cloths, διαρέσσια, he fays, are those which have a fringe knotted or twifted.

But Homer uses the word twice. 1ft. Κεφέτσας μὲν πύργον ἔμνον εξούς εξωτον επάλξως. Μ. 258, where it agrees with the interpretation of Hefychius, the cornice of the wall, or as it may be rendered the βερ of the parapet, a rim or line running round below the battlements. Not differing, perhaps, from the usage of the word as used Ξ 35, where Homer fays, the flips were too numerous to be drawn up on the shore in one line. Τῆ ρὰ προκρότους ἔμοσων\*, they therefore drew them in liner one behind another like the steps of a ladder. Agreeable to the other explanation of Hesychius, or as Apollonius renders it, ἀπουμπριώρματα, in βίτερε \*.

We may therefore conclude, that we cannot err much in rendering the Διαφόσσια of the Periplûs, either cloths fringed, with Salmafius,

Plin. Exercit. p. 762. 6 See Lennep in voce. 7 See Apolon. Lexicon in voce.

or friped with Apollonius. So Virgil, virgatis lucent fagulis. The term used here is in conjunction with cloths. "Λέολοι ....... χ λύντα χ διαφέσκα, where perhaps «δολοι is in opposition to διαφέσσια, λέντα is the Latin word Lintea.

Anyderov. Denarius.—The Roman coin, worth in general denomination nearly 8d. English.

It appears by the Periplûs, that this coin was carried into Abyffinia for the fake of commerce with ftrangers, and that both gold <sup>1</sup> and filver Denarii were exchanged on the coaft of Malabar against the specie of the country with advantage to the merchant.

Δέακα, Κιττα, Δάκας,

Are joined in the Periplûs with Kassa, and are supposed to be inferior species of the cinnamon. See Ramuso, in his discourse on the voyage of Nearchus, and Salmas de Homonymiis Hyles latrices, c. xcii. c. xciii. a work referred to by Salmassus himself, but I have not seen it.

Δέλικα.

Slaves of a better fort and for the Egyptian market.

E

Examor. Oil of Olives.

Ἐλέφας. Ivory.

Eυόδια. Fragrant spices or gums.

<sup>\*</sup> The gold Denarius, according to Arburth the age of Nero.
not was the 45th part of a pound of gold in Plin. Exercit. p. 1070.

Ζώναι σκιωτά.

Girdles or purses wrought or embroidered. A great commerce throughout the east is still carried on in safets, ornamented with every fort of device, and wrought up with great expence. Σκιωτὰι does not occur in the lexicons, but probably means shaded of different colours.

ZiyyiGeg. Ginger.

Not mentioned in the Periplûs, but by Salmafius \*\*, who fays the ancients knew little of it, and believed it to be the root of the pepper plant.

### H

'Hulovos varnyo's. Mules for the faddle.

Θ

Θυμίαμα μουφότε. Gums or Incenfe.

#### 1

Ίμάτια Βαεβασίκα άγραφα τὰ ἐν Αιγόπτω γρόμανα. Gloths, For the Barbarine" market, undressed and of Egyptian manufacture.—The Barbarines are the ancient Troglodyte shepherds of

10 Plin, Exercit, p. 1070.

11 The west coast of the Gulph of Arabia.

12 Upper

Oppu

Upper Egypt, Nubia, and Ethiopia, very graphically traced and diftinguished by Bruce.

Ίμάτια βαρδαρίκα σύργκατα γεγναμμένα. Cloths,

For the Barbarine market, dreffed, and dyed of various colours.

"Ίματισμός Αφαδικός χειρίδιστὸς ότε ἀπλές κὰ ὁ κοινὸς κὰ σκοτελάτος κὰ διάχρυσος. Cluths

Made up, or coating for the Arabian market.

1. Χειριδωτός:

With fleeves reaching to the wrift.

- 2. Ό τε απλες κ ο κοινός. Sec 'Αδολόι.
- 3. Σκοτελάτος.

Wrought with figures. From the Latin Scutum, Scutulatus; the figure being in the form of a fhield. A dappled grey horse is thus called Scutulatus.

- 4. Διάχουσος. Shot with Gold.
- 5. Πολυτελής.

Of great price.

Nόθος.

In imitation of a better commodity.

7. Περισσότερος.

Of a better quality, or in great quantity.

8. Παντοΐος.

8. Havroios.

ο. Πολύμιτα πολύμπα.

Of thicker woof, or larger woof than warp.

"Iππο. Horles.

As prefents, and as imports into Arabia.

### K

Κάγκαμος. Kankamus-Gum Lack.

According to Scaliger; and Dioscorides calls it a gum. But Salmasus rather inclines to think it a drug like myrth. Lack was used as a purple or blue dye by the Indigo dyers. Inδωσέωφοι. Salmas. Plin. Exercit. 1148. 1152. Plin. xii. 20. See Pomet's Hiftory of Drugs, b. viii p. 199, who says gum of four colours was found in one lump. He does not hold it to be Gum Lack, but that it has a smell like it; it is found in Africa, Brasil, and Saint Christopher's. Pomet's Specimen was from the West Indies.

Κάλτις. Kaltis-A Gold Coin.

According to the Periplûs it was a coin of this name current in Bengal, and that the metal was collected from a mine in the neighbourhood. Stuckius fays, a coin called Kalais is fill current in Bengal, on what authority does not appear. Paelino notices the word, but I cannot recal the paffage to my memory.

Kazwasos. Karpafus-Fine Muslins.

Opposed to ordinary cottons. It is remarkable that the native Shankreet term is Korposs, as appears by Sir William Jones's catalogue. Asiat. Ref. vol. iv. p. 231. Calcutta edition. But how this word found its way into Italy, and became the Latin Carbasus (fine linen) is surprizing, when it is not found in the Greek language. The Kagrasian Move of Paulanias (in Atticis), of which the wick was formed for the lamp of Pallas, is Asbestos, fo called from Karpasos acity of Crete. Salm. Pl. Exercit. p. 178.

#### Karría. Cafia.

This spice is mentioned frequently in the Periplus, and with various additions, intended to specify the different forts, properties, or appearances of the commodity. It is a species of cinnamon, and manifestly the same as what we call cinnamon at this day; but different from that of the Greeks and Romans, which was not a bark, nor rolled up into pipes like ours. Their's was the tender shoot of the same plant, and of much higher value, fold at Rome in the proportion of a thousand denarii "to sifty; it was found only in the possession of Emperors and Kings; and by them it was distributed in presents to favourites, upon solemn occasions, embassies, &c. This fort we must first consider, because they themselves applied the name improperly, having it derived by their own account from the Phenicians", and giving it to the same production, though in a different form and appearance from that by which it is known to us.

<sup>12</sup> Pliny.

The kinnamomum of the Greeks and Romans was necessarily derived from the Phenician ", because the merchants of that country first brought it into Greece. The Greeks themselves had no direct communication with the east, and whether this spice was brought into Persia" by means of the northern caravans, or by sea into Arabia, the intermediate carriers between either country and Greece were of course Phenicians. It will therefore be no difficult matter to prove that the Phenician term expresses the cinnamon we have, and not that indicated by the Greeks and Romans. The term in all thefer languages fignifies a pipe, for the Hebrew TOP Kheneh, is the Latin Canna: and Syrinx, Fiftula, Cannella, and Cannelle, convey the fame idea in Greek, Latin, Italian, and French. The Hebrew term occurs in Exodus xxx. 23, 24, joined with Cafia, as it is almost universally in the writings of the Greeks and Romans. It is ftyled fweet cinnamon, and is written Dir 1919", Khinemon Besem, the sweet or sweet scented pipe, and the word rendered Cafia by our translators" is 77P, Khiddah, from Khadh. to fplit or divide longways. These two terms mark the principal distinctions of this spice in all these languages, as Khinemon Besem, Hebrew; Casia Syrinx, Greek; Casia Fistula", Latin; Cannelle.

<sup>14</sup> See a curious miltake of Pliny's noticed mice from Diodorus, lib. i. xci. tom. i. p. 102. by Larcher, of turning the Phenicians into

a Phonix. Tom. iii. p. 349-25 By Perfia is meant the whole empire. 16 The whole 44d chapter is worth confulting on this curious funject, as it-proves

that many of the Oriental spices and odours were even in that early age familiar in Egypt. 17 If from this chapter of Exodus we prove

Larcher, tom. ii. p. 234-

<sup>. 18</sup> The Cafia Fiftula of the moderns is as drug totally diffinel, it is a species of sema which comes from the Levant, Egypt, Brafil, and the Antilles, and is a corruption from Acacia, Salm, Plin. Ex. p. 540. Certer Cafiæ nomen pro ea specie quæ solvit alvum ex Acaria factum quamvis diversum fit genus, Id. that cinnamon was known to the Hebrews in p. 1056. This corruption is not of very mothe age of Moles, we have a second proof of dern date, for Salmains adds, or mirum fit its being used in the embalment of the Munn- ante hos trecentos et amplius annos, Casiam.

Cannelle, French; Khiddah, Hebrew; Xylo-Cafia , Greek; Cafia Lignea, Latin.

Whether the Greeks and Latins derive their term from the Hebrew khine-mon ", or from the compound khench-amonum, is not fo cafy to determine, for amonum is a general term " for any drug or fpice, and kin-emonum in this form would be again the fpice-canna, the cafia fiftula under another defeription. But that the cafia fiftula, and the cafia lignea are marked as the two leading diffinest fpecies, from the time of Mofes to the prefent hour, is felf evident. And I now fay, that if the Romans applied the term cinnamon to the tender fhoot of this plant, and not to the pipe cinnamon, fuch as we now have it from Ceylon, their ufe of the word was improper. That this was the cafe there is reafon to think, but that there was fome obscurity, or stuctuation in their usage is certain also.

Salmafius 22 quotes Galen to prove that the plant itself was brought to the emperor Marcus Aurelius, from Barbarike 23, in a case seven

Fifulam Latinis diflam, cam que purgandi tim habet. Sec alio Ramelio, vol. i. p. 28z. 1 19 This species is diffinedly marked in the Royana Law de publicanis, leg. xvi. D. Cufia-yirax, Xyio-Cafia. Salm. 1055; idi. in Canties Stolmonis Nardus, Cruena, Fiftula cimuamum. It is called Evasegrab, Hard Cafia, 3

in the Periplia.

20 [22] is from [135, a reed, canna, and the termination doubtful, but probably from [15] [73]. Periplial: It is in this feath that [73]. manns figuifies the food from Heaven. The penillar flood or bread. And hence [73][73], pt. perculiar earnal, by way of pre-tminence. Parkhurd derives it not from [735]. Ceans, but from [735], khauan; to foull throng,

21 Salm. 401.

22 Plin. Ex. p. 1304. Calen de Antidotis,

<sup>25</sup> Barbarikė is perhaps not a proper name, but the port frequented by the Barbars of Adel or Molyllon. It is the mart in Scholi, but whether Patala or Minnagara, is difficult to determine.

feet long. Galen faw this, and there were other cases of a smaller fize, containing specimens of an inferior fort. This, therefore, must be in a dry state; but this he says was the true cinnamon. Undoubtedly it was, for the plant itself, and the spice, as we have it, in its usual form, have this difference and no more. But Galen favs, in another passage 14, that casia and cinnamon are so much alike that it is not an easy matter to diftinguish one from the other. And Diofcorides writes, "Cafia grows in Arabia: the best fort is " red, of a fine colour, almost approaching to coral, strait, long, " and pipy, it bites upon the palate with a flight fenfation of heat, " and the best fort is that called Zipir, with a scent like a rose." This is manifestly the cinnamon we have at this day; but he adds, cinnamon has many names, from the different places where it lis or procured orl grows. But the best fort is that which is like the " cafia of Mofyllon, and this cinnamon is called Mofyllitick, as " well as the cafia." This therefore is only a different fort of the fame fpice, but it does not grow either in Arabia or at Mofyllon, it took its name from either country, as procured in the marts of either. This traffick is explained in the Periplus, but Dioscorides was unacquainted with it. The description " he gives of this cinnamon is. "That when fresh, and in its greatest perfection, it is of a " dark colour, fomething between the colour of wine and [dark] " afh, like a fmall twig or fpray full of knots, and very odoriferous." .This is manifestly not our cinnamon, but the same as Galen's, the tender thoot and not the bark. 'It is worth remarking that Diofcorides lived in the reign of Nero 26, and if the true fource of cinnamon was

25 See Larcher's whole Differtation, tom. iii.

<sup>24</sup> See Ramufio, vol. i. p. 282. The whole p. 348. . He is equally indebted to Salmafine as myfelf. of this is from Ramusio. 24 Hoffman in voce.

then just beginning to be known by means of the navigation detailed in the Periplius, this knowledge had not yet reached Afia. Minor or Rome. Pliny who lived a few years later had just arrived at this information, for he says expressly, Mosyllon was the port to which cinnamon was brought, and consequently the port where it was procured by the Greeks from Egypt, and through Egypt conveyed to Rome. It had long been procured there, and long obtained the name of Mosyllitick, but it was now known not to be native, but imported at that place.

The trade to Mofyllon was opened by the Ptolemics : ftill before the existence of a Grecian power in Egypt, the Greeks had probably little knowledge of it, but from the importation of it by the Phenicians; and the Phenicians received it, either by land carriage from the Idumeans of Arabia, or when they navigated the Red Sea themfelves with the fleets of Solomon, they obtained it immediately from Sabéa; perhaps also, if Ophir is Sofala on the coast of Africa. they found it either at that port, or at the others, which the Greeks afterwards frequented. These lay chiefly in Barbaria, (the kingdom of Adel,) comprehending the ports of Molyllon, Malao, and Mundus, where it was possibly always to be met with. This commerce indeed is at best only conjectural, neither could it be of long duration, as it ended with the reign of Solomon, and was never refumed; but that the Phenicians had a fettled intercourse with Sabèa we learn incontrovertibly from Ezekiel 29, and that Sabêa was the centre of Oriental commerce, is proved in our account of the Periplûs.

<sup>57</sup> Diofeorides was a native of Anazarba, but whether he wrote there or at Rome, I develour. Lib. vi c. 29. have not been able to difeover.
9 Cap. xavii. v. 23. Sheba is Sabéa.

It is this circumstance that induced all the early writers to impute the produce of India to the foil of Arabia; an error which commenced with the first historians extant, and which existed in history till the age of Pliny, and in poetry almost to the present hour. Fable is the legitimate progeny of ignorance: we are not to wonder therefore when we read in Herodotus 30, that cafia grew in Arabia. but that cinnamon was brought thither by birds from the country where Bacchus was born, that is India. The term used by Herodotus indicates the cinnamon we now have, for it fignifies the peel, hull, or rind" of a plant, and evidently points out the bark under which form we still receive this spice. The error of Herodotus is repeated by Theophrastus, who assigns both casia and cinnamon to Arabia 12; this intelligence I receive from Bochart, and I am obliged to him also for a very curious citation from Uranius, in Stephanus de Urbibus, who fays, the country of the Abasenes produces myrrh, aromatick gums, or odours, frankincenfe, and the bark [of cinnamon]". This paffage is valuable as the first instance extant in which the name of Abyffinians is mentioned. But it is not to be depended on, unless it can be referred to the conquests of that pation in Arabia, for these Abaseni are evidently joined with the Arabians of Sabêa and Hadramaut.

But whatever errors are to be found in ancient authors, relative to the production of spices in general, and cinnamon in particular,

<sup>50</sup> Lib. iii. p. 252. ed. Weff. and p. 250. Jones, Af. Ref. iv. 110..113.

where he mentions a finitar fable of ferpents "I'II xiça viv AGurus ofiçu zai oraw [quod which guard the frankineenfe. "," a] xai Supitana xai KEPHAGON. Bochart,

<sup>3&#</sup>x27; Kágðus, from Kágðu, arefacio, to dry, vol. i. p. 106 Kágnatos is probably the Kágnados hence the dry hull, peel, or fixell of a que of Herodotus, unlefs it is a falle reading loant or fruit, one of the terms for

<sup>28</sup> Bochart, vol. i. p. 105. Sir William cotton.

till that they found their way into Egypt, Paleftine, Greece, and all the countries bordering on the Mediterranean, in the earlieft ages, is a fact. This admits of proof from the thirtieth chapter of Exodus, and we have traced the courfe of their introduction in the preliminary disquititions of the first book.

We may now, therefore, proceed to examine the various forts of this fpice, mentioned in the Periplits, which amount to ten; and very remarkable it is, that the modern enumeration of profeffor Thunberg should comprehend just as many species. Not that it is to be supposed the species correspond, but the coincidence of number is extraordinary. It is worthy of notice also, that cinnamon is a term never used in the Periplius, the merchant dealt only in casia, cinnamon was a gift for princes; there is even in this minute circumstance a presumption in favour of his veracity, not to be passed without observation.

#### His ten forts are,

### 1. Μοσυλλιτική. Mofyllitick.

So called from the port Mofyllon, where it was obtained by the Greeks from Egypt, and whither they always reforted from their first passing the Straits of Bab-el-Mandeb. It was the casia fishula, the same as we now have from Ceylon, and imported at Mofyllon directly from India, or from the Arabian marts on the ocean, which were rivals of the Sabcans. It is mentioned by several authors as the best fort, or inferior only to Zigeir, and therefore could not be native: there is indeed cinnamon on the coast of Africa, but it is

hard, woody 34, and of little flavour. The regio cinnamomifera of Ptolemy, bears no other fort but this; he places this tract at the boundary of his knowledge, that is, between Melipda and Mofambique, and if it is in any way entitled to the name, it cannot be from its own produce, but on account of the importation of the foice from India; the traders who found it there, might suppose it native, in the fame manner as the early writers fpeak of the Mofyllitick, and which (as has been already noticed,) Pliny first mentions as imported. The Mofyllitick species is rarely called cinnamon by the ancients, but cafia only. Their cinnamon was exhibited as a rarity, as that of Marcus Aurelius before mentioned. Antiochus Epiphanes " carried a few boxes of it in a triumphal procession; and Scleucus Callinicus prefented two minæ of this species, and two of cafia, as the gift of a king to the Milefians. The cafia or modern cinnamon was found formerly in Java, Sumatra, and the coast of Malabar; from the coast of Malabar it found its way to Africa and Arabia; but when the Dutch were masters of Cochin 26, they destroyed all the plants on the coaft, in order to fecure the monopoly to Ceylon: and none is now met with on the coast, but an inferior wild fort, used by the natives, and brought fometimes to Europe for the purpose of adulteration.

<sup>34</sup> Seven different forts Oriental, and two American, I have feen in the collection of Dr. Burgefs; and an African species which is not a bark, but a mere flick, with little flavour. It answers well to the character of

an affection, that the true c 25 Atheneus, lib. v. p. 195. lib. ix p. 403. grew any where but in Ceylon.

The Dutch are accused of this by their rivals, as well as diminifuling the growth of natunegs, &c. in the Molucca illands. But I objerve in the account of Hugh Boyd's embally to Ceylon (Ind. Annual Register, 1799), an affertion, that the true cinnamon never

<sup>100</sup> 

2. Γίζεις, Ziyeig, Γίζι. Gizeir, Zigeir, Gizi.

This fort is noticed and deferibed by Diofcorides, as already mentioned; and to his defeription I can only add, that Yigeir, in Perfian and Arabick, as I am informed, fignifies fmall.". The finaller bark muft of course be from the funaller and tenderer fhoots, which is ftill efteemed the beft; the harder and thicker bark is cut and made to roll up in imitation of this, but is inscrior; though from the same plant. This at leaft is supposed; but I do not speak from authority.

### 3. Aruga. Afyphe.

This term, if not Oriental, is from the Greek ἀσύφολος, alyphelos, fignifying closal or ordinary, but we do not find alyphe used in this manner in other authors; it may be an Alexandrian corruption of the language, or it may be the abbreviation of a merchant in his invoice.

### 4. "Αξωμα. Aroma.

Aroma is the general name for any fweet-feented drug, but it is twice inferted in a lift of cafias, and is therefore probably a fpecies as well as the others. It would intimate an aromatick funell or flavour, and is possibly one of superior quality. It is remarkable that Moses uses the same term of sweet-scented cinnamon.

# Μώγλα. Mógla. A fpecies unknown.

37 I doubt this relation at the same time I whether the Greek term casta be not a corrupnotice it; but an inquiry might still be made, tion of givi.

6. MOTW.

Μοτώ. Moté.

A fpecies unknown.

7. Σκληροτερά. Sclerotera.

From the Greek Σκληρός, hard. This is a term which occurs frequently, and perhaps diftinguishes the casia lignea (wood cinnamon), from the cafia fiftula, (cannelle or pipe cinnamon,) it may, however, fignify only a hard and inferior fort, in opposition to brittleness, which is one of the characters of the superior species.

8, 9, 10. Δέακα, Κιττά, Δάπαρ. Duaka, Kitta, Dacar.

All unknown. But Salmatius and other commentators agree in fuppoling them all to be species of the same spice.

These are the ten forts enumerated in the Periplûs 26. Professor Thunberg, who vifited Ceylon in his voyage from Batavia, reckons ten forts likewife. Four of nearly equal value and excellence, three that are round only in the interior above the Ghauts 39, in the government of the king of Candi; and three which are not worth gathering. The most remarkable which he mentions are:

The raffe" or penni-curundu, honey cinnamon, and capuru curundu, or camphor cinnamon, from the root of which camphor is diffilled; this last is found only in the interior. The cinnamon for the European market was collected in the woods by the natives

<sup>3:</sup> Two other forts may be collected from coast is a level, the interior is high and table Galen; Archo, and Daphnite. Larcher, Herod, vol iii p. 345. 39 I use the term improperly, but Ceylon English have, only the coast. partakes of the nature of the continent, the

land. All above the mountains is still possessed by the king of Candi; the Dutch had, and 40 See Knox's History of Ceylon, p. 16. employed.

employed in the Dutch fervice, but has fince been planted on the fandy downs on the coaft; these plantations, besides their convenience, are so thriving, that the practice is likely to be continued. Can I conclude this account without observing that this rich and valuable island is now in the possession of the Englith, and without a prayer that the commerce may be conducted on more liberal principles, and the natives treated more generously by them than by their predecessors. The knowledge which the ancients had of this island will be treated at large in the Second Part of the Periplüs, and it is to be hoped that the present governour Frederick North, whose mind is stored with ancient knowledge, and whose attention is alive to modern information, will communicate his researches to the publick.

I have only to add, that the Shanfkreet names of this fpice are favernaca and ourana, as I learn from the Afiatick Refearches, vol. iv. p. 235. and that Salmafius mentions falihaca as the Arabick appellation, which he derives from the Greek \$\mu\_{\text{NoR}}\text{NoR}\$, lignca, or woody, (p. 1306.) but which, if I did not pay great refpect to his authority, I should rather derive from Salikè the Greek name of the island in the age of Ptolemy. I have now only to request that this detail, too prolix for the work, may be accepted by the reader, not as the natural but the classical history of cinnamon.

#### Kassírspos. Tin.

Tin is mentioned as an import into Africa, Arabia, Scindi, and the Coaff of Malabar. It has continued an article of commerce brought out of Britain in all ages, conveyed to all the countries on the Mediterranean, by the Phenicians, Greeks, and Romans, and carried ried into the Eaftern Ocean from the origin of the commerce. It is only within thefe few years it has found its way into China in British veffels, where it is now become an article of fuch magnitude, as greatly to diminish the quantity of specie necessary for that market.

Καττυθερίνη, Πατροπαπίγη, Καβαλίτη. Kattyburinè, Patropapigè, Kabalitè. Peripl. p. 28.

Different species of nard. See Nagdos.

Καυνάκαι απλοϊ έ πολλέ. Kaunakai.

Coverlids plain of no great value, (or according to another reading, not many,) with the knap on one lide. Hefychius and Phavorinus, cited by Hudfon.

Κολανδιόφωντα. Kolandiophonta.

Large Ships on the coaft of Travancour, in which the natives traded to Bengal and Malacca. They had veffels also called Sangara, made of one piece of timber, which they used in their commerce on the coaft of Malabar. The Monoxyla of Pliny, employed in bringing the pepper down the rivers to the coast. Lib. vi. p. 23.

Κοράλιου. Coral.

Kooros". Coftus, Coftum,

Is confidered as a fpice and aromatick by Pliny, lib. xii. c. 12.

It is called radix; the root pre-eminently, as nard, is ftyled the leaf.

Coffus

The worthy of remark that in the enuscenation of gifts made by Selectees Collinicus to Cafa 2 pounds, the Milelians, there flood be this difficultien: Cionamon 2 pounds, Frankinceufe 10 talents, Coftus 1 pound, Coffus being, as we may fuppose, the best of aromatick roots, as nard or spikenard was the best of aromatick plants. This supposition explains a much disputed passage of Pliny. Radix et Folium India est maximo pretio; the (root) cossus, and the (plant) spikenard are of the highest value in India. Radix Cossi gustu fervens, odore eximio, frutice alias inutili; the root of the cossus into to the taske, and of consummate fragrance, but the plant itself, in other respects, without use or value. It is found at the head of the Pattalene, where the Indus sirri divides to inclose the Delta, of two forts, of which that which is black is the inferior fort, and the white best. Its value is fixteen denarii, about twelve shillings and eightpence a pound. Thus having discussed the cossus or root, he proceeds to the leaf or plant. De solio nardi plura dici par est, but of this hereafter. It is here only mentioned to give the true meaning of the passage.

This root is faid by Salmafius to grow in Arabia as well as India; and I do not find that it has acquired any European name, though it was formerly much used in medicine, and called the Arabian or true coftus. It always contracts a bitterness, and grows black by keeping, which probably accounts for the white being more valuable (as Pliny says), because it is fresh. Mr. Geosfroi, a French academician, mentioned under this article, in Chambers's Dictionary; confiders it as the European elacampane root, which he afferts, when well fed and prepared, has the properties of the Indian aromatick.

Coftus corticofus bark, coftus has a fcent of cinnamon.

The reason is evident; frankincense and and costus were East India commodities.

myrh were procurable in Arabia, which bordered on his own kingdom. Cassa, cinananon,

"The numbers in Pliny are dubious.

#### Λ

Λάδανου \*3.

A gum or refin from a plant called leda, lada, or ledum, a species of ciftus. It is of a black colour, from Arabia; the East India sort is very heavy, and like a grit-stone in appearance. Dr. Burgess informs me that it is adulterated with pitch from Pegu.

Λάππος χρωμάτινος. Laccus. Coloured Lack.

Is a gum adhering to the small branches of trees, supposed to be deposited by an infect.—When taken off and melted it is reddish, formed into granulated feed, lack for japanning; into shell-lack for fealing-wax. Pomet. book viii. p. 200.

A dye of the red purple, (according to Ramufio, pref. to the Periplus, *lacco de tingere*) but Salmafius, Plin. Exercit, p. 1160, fays it is a cloth of this colour.

Λέντια. Linen, from the Latin lintea. See Ιματισμός.

AlCavos. Frankincense ...

Λίζανος ὁ περατικός. From the Coast of Adel.

A gum or refin fufficiently common in Europe still; originally introduced from Arabia only, and used by the nations on the Medi-

<sup>43</sup> Herod. lib. iii. p. 253, where he fays, tom. iii. p. 350. it is collected from goats' beards, a moff fragrant odorific gum. See Larcher, Herod.

terranean under the denomination of thus and libanus which are fynonymous. Its name is derived from לבן, laban, white, Heb. and לובי, loban, Arabick, because the purest fort is white "s without mixture. See Bochart, tom. i. p. 106. Hence libanus and the corrupt olibanum. M. Polo calls it encens blanc. Bergeron's Col. p. 153. It was chiefly brought from Hadramant or Sagar, a track of Arabia on the ocean. The best fort is likewise in small round grains called xóvôgos, from the Arabick כנדר, chonder. Bochart, ibid. But Niebuhr fays, that the libanus of Arabia at present is greatly inferior to that brought from India, as being foul, mixed with fand and stones; he adds also, that the plant which produces it, though cultivated at Kefehia and Schahr (Sagar) is not native, but originally from Abyffinia. See Niebuhr, Arabia, tom. i. p. 202. ii. p. 131. in which opinion he is supported by Bruce. When he was in Arabia the English traders called the Arabian fort incense of frankincense, and the Indian or better fort, benzoin, and the worst benzoin was effeemed more than the best incense. The Arabs themselves preferred the Indian to their own, and called it backor Java, either because it grew in that island, or was imported from Batavia. See also d'Anville, Geog. Anc. tom. ii. p. 223.

Λ.Θίας Υαλής πλείουα γενη τὸ ἄλλης Μυζονής τῆς γενομένης εν Διοσπόλει. Glafs and Porcelane made at Diofpolis.

- 1st, Lithia Hyala. Several forts of glass, paste, or chrystal, See article Λιθία διαφονής.
- 2d, Λιθία Μυζείνη.

<sup>45</sup> It grows yellow by keeping. Dr. Burgels has specimens of Arabian libanus, but possibly Oriental.

Which Salmafius fays, ought always to be written morrina, not myrrlina, myrrina, murrlina, or murrina. And he maintains that it is certainly the Oriental porcelane. It is here evidently joined as the adjective to Λιθία, as it is afterwards (p. 28. Peripl.) mentioned with Λιθία ευχών, and connected in a fimilar manner Λυθία ευχών η Μαξάντ ", where it is fpecified as brought down from the capital of Guzerat, Ozene, (Ougcin.) to the port of Barygaza or Baroach. All this feems to confirm the opinion that it was porcelane procurable in India at that time, as it now is; and that it was brought into Egypt by the fhips that went to India. But what is more extraordinary is, that it was imitated in the manufactories of Diofpolis in Egypt, juit as our European porcelane is now formed upon the pattern of the Chinefe.

But in opposition to this, Gesner produces a variety of authorities from Io. Frid. Christius, to prove that it is a fossil and not facilitious. The principal one is from Pliny, lib. xxxvii. c. 2. where it plainly appears that Pliny thought it a fossil from Carmania, while his description of it suits porcelane better than any substance which we know, as, variety of colours, purple, or rather blue and white spots, with a fort of variegated resclution between both. Martial styles it myrrhina picta, xiii. p. 110. and notices it as capable of containing hot liquors.

Si calidum potes ardenti murra Falerno Convenit, et melior fit fapor inde mero.

This fapor and the odor mentioned by others are the only properties we cannot attribute to it in conformity with the language of the ancients. Martial notices likewise,

#### Maculofæ pocula murræ.

45 And thus Gesuer cites; Heliogebalus . . . myrrhinis et onychinis miuxit. Lamprid. 32.

And

And when another citation is adduced

Marroaque in Parthis pocula cocta focis. PROPERTIES. iv. 5, 26.

Christing is forced to contend that marva is not the fame as murring, but an imitation like the Diospolite mannfacture.

That it came from Parthia " into Egypt, to the countries on the Mediterranean, and to Rome, feems evident from a variety of authorities, and that it might well do, if we confider that Parthia communicated with India by means of the Perfian Gulph, and possibly on the north with China " itself, by means of the caravans, The mention of Carmania by Pliny, as the country where the murrhina were obtained, favours the fupposition of procuring these veffels from India: for the communication of Carmania with Scindi and Guzerat is almost immediate, and certainly prior to the navigation from Egypt to that coaft. But in Guzerat they were obtained. when the author of the Periplûs was employed in that trade; and their arrival at the market of Baroach, from the interior of India, may induce us to fuppofe, that they came into India from the north.

The immense value of these vessels at Rome might well arise from their feareity. They were first feen there in the triumphal procession of Pompey; and it must be observed that Pompey returned from the thores of the Caspian Sca. They were afterwards introduced into use at the tables of the great, but of a small fize and capacity, as cups for drinking. Afterwards one which held three

<sup>47</sup> The kingdom, not the province, as we at fome frontier, like that between the Rufmania.

<sup>48</sup> That there was an intercourse with the Scres on the north of the Himmslu mountains, and that exchange of commodities took place

may fee from a former citation noticing Car- fians and Chinefe at Kintcha is evident from Ptolemy, Pliny, and the Periplus. Whether the Seres were Chinese or an intermediate tribe between India and China is not material.

fextarii or pints, was fold for feventy talents; and at length Nero gave three hundred for a fingle veffel. The extravagance of the purchaser might in this inflance enhance the price, but the value of the article may be better estimated by the opinion of Augustus, who, upon the conquest of Egypt, selected out of all the spoils of Alexandria a single murrhine cup for his own use. Now therefore if the murrhine was porcelane, it may be a piece of information acceptable to our fair countrywomen, to know that Cleopatra did not indeed sip her tea, but drink her Marcotick wine out of china.

I have not been able to confult the work of Chriftius, but take the account of his argument from Gefiner, and I refer the reader for further information to Gefiner in voce, to Chambers's Dictionary, to Salmafius, Plin. Exercit. and to an express differtation in the Volumes of the Academy of Belles Lettres, which I have formerly feen, but have not now an opportunity of confulting. I recollect that it is in favour of Salmafius's opinion, that murrina and porcelane are the fume.

#### Λιθία διαφανής.

A transparent substance of stone or pebble, but it is probably here the glass made of stone as clear and bright as chrystal, and the same as Taxis, Hyale mentioned before. Salmasius, p. 1096, has a very curious quotation from the Scholiast on Aristophanes ad Nubes, Act ii, scen. I. "We call Hyalos (he says) a material made of a "certain plant burnt, and wasted by fire so as to enter into the "composition of certain [glass] vellels. But the ancients appro"priated the term hyalos to a transparent stone called knuon, or "chrystal."—This perfectly accords with the manufacture of glass, composed of sand, or slints, and the affects of a plant called kali or vittaria.

vitraria in Narbonne. Balm, ibid, and Chambers in voce. But glathas its name from glaftum49 or woad, the blue dye, because common glafs was of that colour, but the transparent floney glafs [flint glafs] here mentioned feems to take its name [diaconis] transparent, and Take? chrystalline, from its superior purity and imitation of the chryflal. The whole paffage in the Scholiast is interesting, and worth confulting. Nub. act. ii. fcen. 1. 1. 766. Tib" Takov keysig.

"The livalos or chryftal is formed circular and thick for this " purpose the purpose of a burning glass], which being rubbed " with oil and warmed, they bring near the wick of a lamp and " light it:" [it was rubbed with oil probably to clean it, but why warmed does not appear. I "Homer knew nothing of the " chrystal, but mentions amber:" [true, for with Homer κρύσταλλος is always ice. 7

Hence it appears that chryftal was known to Ariftophanes, and the application of it to the purposes of a burning glass; that glass was known in the time of the Scholiast, and that Homer knew nothing of either. The use of a pebble or chrystal, however, to kindle fire is known at least as early as the writings of Oroheus περί λίθων. And if the writings attributed to Orpheus be really the

Nat. Deorum, the knowledge of this property is still very old. That clear or flint glass assumed its name from "Yang, chrystal, is still more apparent from a passage of Diodor. Sic. lib. ii. p. 128. ed. Wessel. where mention is made of both forts, the factitious and native

work of Pythagoras, or a Pythagorean, as Cicero fuppofes, De

<sup>49</sup> See Vollius ad Melam, Varior. ed. 1722, fins adds, apud Cambro-Britannos ifatidis protagini Glastum in Gallia, quo Britannorum Herba isatis is Woad. conjuges nuruique toto cornore oblita. Vol-

who cites Pliny, lib. xxii. c 1. Simile Plau- ventus Glas appellatur, et caruleum colorem.

"Τελον, as he writes it. The glass cossin of Alexander is called Υαλίνη, by Strabo, lib. xvii. p. 794. See Herod. iii. p. 206. et Westel, not, et Diod, ii, p. 15.

#### Λίθος καλλεανός καλλαϊνός.

Stone of Calleau, literally Goa stone, for Callien is a river that falls into the fea near Goa, and retains its name to this day. Rennell, d'Anville. Not that this is the modern drug fo called, but a blue ftone 'o, according to Salmafius, p. 240, and an emerald in the estimation of Ramusio, pref. to the Periplûs.

#### 'Λίθος διβιανός.

Probably ferpentine or hæmatite marble, in the opinion of Dr. Burgefs. Opfian or opfidian flone. But Salmafius ridicules Pliny for calling it opfidian, or faying it was discovered by Opfidius. In Greek it is always opfian, and is a green frone very dark, approaching to black. It was found in the islands of Ethiopia; and from taking a high polish was used by the emperor Domitian to face a portico, fo that from the reflection he might discover if any one was approaching from behind.

The opfidian flone, mentioned by Pliny, is factitious, and feems very much to refemble the material of which our brown or red tea-pots are composed. Totum rubens, atque non translucens, hæmaticum appellatum. See discourse in the Memoirs of the Academy of Sciences. The specimens of this stone, which I have seen, are so dark that the green cast can only be discovered by holding them in a particular position. The closeness of their texture seems

<sup>50</sup> But he mentions it as a topaz, and fays blue, why not a turquoife? which is fill a there are topazes of two different colours; if favourite from in the eaft. 10

to admit of any degree of polish that the artist may be disposed to give them.

Λύγδος. Lygdus.

A beautiful white marble, or rather alabafter used to hold odours; Ramusio. Salmasius says, an initiation of this alabafter "was formed of Parian marble, but that the best and original lygdus was brought from Arabia, as noticed in the Periplus, from Moofa. Salm. p. 559.

Λύκιον. Lycium.

A thorny plant, so called from being found in Lycia principally. A juice from which was used for dying yellow, mentioned by Pliny and Dioscorides. The women also, who affected golden locks, used it to tinge their hair. Salm. p. 1164. Why this should be fought in Scindi, if it was found in Lycia, does not appear. It is found now in the shops by the name of the yellow-berry, box thorn, grana d'Avignon. Dr. Burges.

Λωδικες. Lodices.

Quilts or coverlids.

ε πολλαι απλοι κ) εντόπιοι.

Coverlids plain and of the country manufacture at Moofa.

<sup>31</sup> Unguenta optime servantur in alabastris. Plin. lib. xiii. p. 3.

### M

Μαργαρίται, p. 84.

Pearls, fiflied for near Cape Comorin, where the fifliery fiill continues, or the Lackdive Islands, formed a great article of commerce on the coast of Malabar.

Μαλά Cαθρον, p. 84. Malabathrum.

A drug or aromatick as much disputed as any Oriental name which occurs. But generally supposed to be the betch aut, written betce, and preferving a relation to the two final syllables of the Greek. This nut is enclosed in the leaves of a plant called arecka, mixed with lime and sometimes with odours, and used as a matitizatory, by almost all the Oriental nations, but more particularly in the Molucca islands, the Golden Chersonese, and China; it turns the teeth black, and consequently makes white teeth out of fashion, as Prior says,

King Kihu put ten queens to death, Convict on statute, Ivory Teeth:

The composition, being from two plants, the beetle nut and the arccka leaf, has probably given rife to the variety of descriptions and allutions in different authors. But Horace, lib. ii. ode, 7, uses it evidently as an aromatick unguent;

Malobathro Syrio capillos.

And Pliny, lib. xii. 26. xiii. 1. confirms the allufion by making it an unguent from Syria, but fays a better fort comes from

Egypt, and superior still from India. This, therefore, cannot be the Oriental betel, though as an exquisite odour it may, by some intermediate corruption, have usurped a name, from the true sadeger or betel. The price was prodigious, according to Pliny, the drug costing three hundred denarii, ten pounds a pound, and the oil fixty or seventy denarii. It was used, he adds, as an odour in wine lukewarm, and had the slavour of spikenard.

Whether the author of the Periplûs uses malabathrum, as the unguent known to Pliny and the Romans by that name, cannot be determined, as he merely givesthe name without explanation in his lift. But that he had obtained an obscure knowledge of the betre, and its form as rolled up in leaves, is proved in the manner of his using the term setros. This demands a separate consideration, and will be found at the conclusion of the Periplûs, explained in all its parts, as far as the learning of Salmassus can guide us.

### Maxeip. Macer.

An aromatick from India, the bark red, the root large. The bark used as a medicine in dysenteries. Plin. xii. 8. Salm. 1302.

# Μάχαιραι.

Knives or canjars worn at the girdle.

15 It appears by Pliny, lib. still. c. 2. that the fullcoard, the first of odours, which is almost all the fingance odours of the east enseminently called follow, or the leaf, in tered into the composition of their unguents. opposition to culture, or the root. But the fat the royal Perfait unguent to lefs than brenety-fix odours are canumerated, and among probably gives rife to the militake. See Pliny, them the malosbatmon, which is not for proberly are odour as a fainmant, if it be the folipharmum, microplarmum, all diffictions of betre, but it is requestly confounded with the bette, are faitly applied to the frijkenand.

Μελιέφθα χαλιά.

Biaſs" or copper, prepared, as Ramulio ſays, ſor veſſels of cookery. But rather for ornaments of women, as bracelets, anklets, and collars. No uſage of Μελέφθα cours eſſewhere; but metals were prepared with ſeveral materials to give them colour, or make them tracable or malleable. Thus χρλίζωρα in Heſychius was braſs prepared with ox's gall to give it the colour of gold, and nſed like our tinſel ornaments or ſoil ſor ſtage dreſſes and decorations. Thus common braſs was neither ducſile nor malleable, but the Cyprian braſs was both. And thus, perhaps, braſs, μελίζφθα, was ſormed with ſome preparation of ſhoney.

Μέλι καλάμινον το λεγόμενου σάκχαρι.

Honey from canes. Sugar.

In Arabick, thuker, which the Greeks feem first to have met with on the coast of Arabia, and thence to have adopted the Arabick name. It is here mentioned on the coast of Africa, where the Arabians likewise traded, and either imported it themselves from India, or found it imported; it was evidently not found in that age growing in Africa. The Shanskreet name of sugar is ich-shu-casa, and from the two middle syllables the Arabick shuka, or shuker, As. Research. iv. 231.

Μελίλωτον. Honey Lotus.

The lotus or nymphæa of Egypt. The ftalk contains a fweet and eatable fubftance, confidered as a luxury by the Egyptians, and used

as bread; it was fometimes carried to Rome, and the Periplûs makes it an article of importation at Barygaza. It appears also to have been used as provision for mariners; and if this was the favourite bread of Egypt, in preference to grain, Homer might well speak of it as a luxury and delicacy; but his lotus is generally supposed to be the fruit of a tree, by our African travellers. Authors differ, some afferting that it is still common in the Nile, others saying that the lotus now found there has neither pulp nor fubstance.

Μοκρότε θυμίαμα.

An incense called mocrotus or mocroton.

Μολόχινα.

Coarse cottons of the colour of the mallow. Others read Μοναχή, either fingle threaded or of one colour.

Coarfe cotton dyed of a whitish purple, and therefore called molochina from Moλόχη, mallows. Wilford, Afiat. Differtations, vol. ii. p. 233.

Μόλυβδος. Lead.

 $Mor\omega$ .

A species of cinnamon. Sec Κασσία.

Μύρον.

Myrrh or oil of myrrh. Unguent in general, but pre-eminently of myrrh ".

<sup>14</sup> The African is best, the Abyssinian, Arabian, and Indian worst. Dr. Burgels.

A gum or refin iffuing from a thorn in Arabia, Abyffinia, &c. Bruce has given an account of the plant; he fays it is originally from Africa, and that the Arabian myrrh is ftill an inferior fort. See Bruce, Chambers, and Salmaílus.

Μυρρινή. See Λιθία Μυρρινή.

Porcelane. See Gefner and Chambers in vocc.

### N

Νάρδος.

Nard or fpikenard, p. 93. Νάρδος Γαπανική. Others read Γαγγι-

No Oriental aromatick has caused greater disputes among the criticks, or writers on Natural History, and it is only within these few years that we have arrived at the true knowledge of this curious odour, by means of the inquiries of Sir William Jones and Dr. Roxburgh.

Their account is contained in the ivth volume of the Afiatick Refearches, and Dr. Roxburgh was fo fortunate at laft as to find the plant in a flate of perfection, of which he has given a drawing that puts an end to all controverfy on the fubject.

The nard has the addition of fpike from the Latin fpica, an ear of wheat, which, according to Dr. Roxburgh's drawing, it perfectly refembles. And this adjunct is found also in its Arabick name, fumbul. And in its Shanfkreet appellation, jatámánsí; as also its Perfick title khútlah, all fignifying fpica.

Sir William Jones, Afiat, Ref. iv. 117, fays it is a native of Budtan, Népal, and Morang; and that it is a species of Valerian. It is remarkable that he had himfelf feen a refemblance of it in Syria, as the Romans or Greeks mention Syria as one of the countries where it is found: but Ptolemy gives it its true origin in these tracts of India. A specimen was brought down to Calcutta from Boudtan at the request of Sir William Jones, and the agents of the Deva Raja called it pampi; but it was not in flower. Some dried specimens of it looked like the tails of crmines, but the living ones, as Dr. Roxburgh afterwards found, rife from the ground like ears of wheat. It answers the description of Dioscorides. It is weaker in scent than the Sumbul folkenard of Lower Afia, when dry, and even loft much of its odour between Budtan and Calcutta. The odour is like the fcent of violets; but the living plant is forbidden to be brought out of Boudtan. It was, however, procured by the intervention of Mr. Purling the English resident; and was at last received in its perfect form by Dr. Roxburgh, who has described it botanically. Af. Ref. iv. 722.

In the age of the Periplús it was brought from Scindi, and from the Ganges, which, according to Sir William Jones, we ought to conclude would be the natural port for it, as coming from Boudtan. This authorizes the change of reading from yamaunch, [gangaitka], to yayymm, [gangitika], more effecially as it is mentioned at the Ganges. Some fanciful inquirers might think they had found the mention of Japan in this passage.

We ought not to omit some particulars from Pliny which are remarkable. He describes the nard with its spica, mentioning also that both the leaves and the spica are of high value, and that the edour is the prime in all unguents. The price an hundred denarii for a pound. And he afterwards vifibly confounds it with the malobathrum or betel, as will appear hereafter, from his ufage of hadrofphærum, mefofphærum, microfphærum, terms peculiar to the betel. The characteriftick name of the nard is folium", the leaf pre-eminently, in contradifinction to coftus the root, both as the prime odours of their two forts, the root and the leaf.

But there is ftill a more remarkable particular in Pliny, which is, that he evidently copies the Periphis in the three places he allots for the markets of the fpikenard; for he mentions Patala at the head of the Delta "of the Indus, correspondent to the Barbarika of the Periplis, and another fort which he calls Ozzenítides, evidently agrecing with the mart of Ozéne (p. 75. Peripl.); and a third fort named gaugitick, from the Ganges, answering to gapanick, for which all the commentators agree in reading gangitick. Very strong proofs these that Pliny had feen this journal and copied from it, as he mentions nothing of Ozéne in his account of the voyage, and only catches Ozzenítides here incidentally. See Salmasius, p. 1059, et seq. who is very copious on the fubject, and has exhausted all that the ancients knew of this aromatick."

Nαύπλιος, p. 27. Nauplius.

It feems to be an inferior tortoife-shell from the context, which runs, εξ χελώνη διάφορος μετά την Ινδικήν εξ) εκάπλες δλέγος, i. e. tortoise-shell of superior kind, but not equal to the Indian; and a

<sup>55</sup> Saimaius, p. 1065, is clearly of opinion, that Pliny is regularly militaken in applying folium to pard. He fays it is always peculiar to malobathrum betel.

<sup>56</sup> Whether this in Pliny does not apply to codius?

 57 It refembles the tail of a fmall animal, in Dr. Burgefi's Collection.

fma

finall quantity of that species called nauplius. It may, however, be a different commodity, but I cannot trace it in Salmasius or Pliny, unless it be the shell of that sish he calls nauplius, lib. ix. c. 30. which seems a species of the nautilus.

Νήμα Σηρικόν κζ Ίνδικόν μέλαν.

Black fewing filk both Chinefe and Indian. If this paffage could be afcertained as rightly rendered, it would prove that the filk manufacture was introduced into India as carly as the age of the Periplibs. N\(\tilde{\ell}\)\_{\tilde{\ell}} can hardly be applied to a web, it feems always to be thread, and here fewing filk. If indicon is the adjunct of nema there is no difficulty, but indicon melan may be indigo in the opinion of Salmafus.

### o

'Οθόνιον. Muslin.

ist fort. Ἰνδικόν τὸ πλατύτερον ή λεγομένη Μοναχή.

Wide Indian muslins called monakhè.

2d fort. Σαγματογήνν. Σαγματογίναι. Salm. reads Σαματοπήνη, from πηνίον, a thread. Salm. p. 1170.

Salmafius feems to interpret these two forts as muslins made up in fingle pieces, or many in a parcel; he is not fatisfied, however, with his own interpretation; but it is to be observed, that the finest muslins still come to Europe made up in fingle pieces, called book muslins from their form. And it is by no means irrational to conceive that a custom of this fort is coeval with the trade.

Monakhè, fingle.

Sagmato-gine, made up in parcels.

Sagmato-pene, made of a bulky thread, or fo thick as to ferve

3d. fort. Xudalov.

Coarfe mullins, or rather coarfe cottons, called at prefent dungarees; Wilford, Af. Differt, vol. ii. p. 233- to which monakhè is oppofed as a finer fort.

Olivoc. Wine.

 Λαοδικηνός. Wine of Laodicæa, but which city of that name does not appear. There is a Laodicæa in Egypt.

2. ITANIAG. Italian wine.

3. Αρωβικός. Arabian wine. It is dubious whether palm wine or toddy wine, it feems to have been a great article of commerce.

'Ομφαξ Διοσπολιτική. Unripe grapes of Diospolis.

. In what form this was an article of commerce does not appear, it is mentioned but once. Unripe grapes, however, are imported into England both from Litbon and Madeira.

'Οπήτια, p. 27. Avols or bodkins.

An article in trade on the coast of Africa, as needles are at this slay.

Ofergalnes. Mountain brofs.

Used for ornaments. Ramusio calls it white copper, copper from which the gold and filver has not been well separated in extracting it from the ore.

# TI

Παρθένοι ευειδείς.

Handlome women flaves for the haram are mentioned as intended for prefents to be fent up to the king of Guzevat, whose capital was Ozene or Ougein.

Πελύμια.

Small hatchets or axes for the African trade.

Πέπερι, Ρυρρον.

Imported from the coaft of Malabar, as it fill is; the native term on the coaft is pimpilim; Salna, p. 1070. or the Shanikreet, pipali. Af. Ref. vol. iv, pr 234. The preper coaft is called in Arabick beled-el-fulful. D'Anville, Ind. p. 118.

It was found by the Greeks from Egypt first in Ethiopia, as an article of commerce brought thither by the Arabs, but was known in Greece much earlier.

Two forts are diffinguished in the Periplus.

#### 1. Κοττοναφικόν.

From Cottonata, the kingdom of Canara, according to Rennell, which is ftill the principal mart for pepper, or at leaft was fo before

the English fettled in Sumatra. This is the black pepper. Se Marsden's Sumatra.

# Μακρόν.

Long pepper", fo called from its form being cylindrical, an inch and an half long. It confifts of an affemblage of grains or feeds joined close together. It resembles the black pepper, but is more pungent. It is a species of the East India pepper totally distinct from the Cayenne.

### Περιζώματα.

Girdles or fathes, and perhaps diffinguished from the following article,

Πηχυιᾶι ἁι ζῶναι.

Sashes of an ell long, only in the difference of make or ornament,

Πιτνικόν.

Pearls or the pearl oyster. See the fishery at Cape Comorin.

Πορφύρα διαφόρα ης χυδάτα, p. 35.

Purple cloth of two forts, fine and ordinary. An article of trade at Moofa in Arabia.

Ποτήρια, Drinking veffels,

Χαλκά, Brafs,

Στρογγύλα, Round,

Μεγάλα, Large.

58 Tabaxir is the common long pepper.

Probably all three epithets apply to the fame vellet. An article of import on the coaft of Africa..

Πυρός ολίγος.

Wheat in fmall quantities, imported into Omana, or Oman in Arabia.

### P

Problems. Rhinoceros.

The horn or the teeth, and possibly the skin, imported from the coast of Abyssinia, where Bruce found the hunting of this animal still a trade, which he has described in all of its branches, vol. iv.

# 2

Σάγγαςα.

Canoes used on the coast of Cochin for conveying the native commodities from the interior to the ports, and sometimes along the coast.

Σάγοι Αρσινοητικοι γεγναμμένοι κ) βεβαμμένοι, p. 14.

Rugs or cloaks made at Arfinoc (Suez), dyed, and with a full knap.

Σανδαράκη.

Red pigment, Salm. p. 1155. found in gold and filver mines. Pliny. Ore of Cinnabar. Dr. Burgefs. Σάπφειρος. Sapphire Rone.

The ancients diffinguished two forts of dark blue or purple, one of which was fpotted 59 with gold. Salmaf, p. 130, et feq. Pliny favs, it is never pellucid, which feems to make it a different stone from what is now called fapphire.

Σηρικά δεοματα. Chinefe bides or furs.

What is meant by deputer no where appears, unless it can be applied to the Tagravas, whence the malobathrum was procured. But this is very dubious. See Μαλόδαθρον.

L'idnnoc. Iron.

An import into Abyffinia for the manufacture of spear heads, to hunt the elephant, rhinoceros, &c ...

Tudacoc.

Iron tempered in India.

Σινδόνες.

Fine linen of any fort, but that imported into Abyffinia might be Egyptian, and possibly of cotton, but

Σινδόνες ἀι διαΦορώταται Γαγγιτικάι,

Can be nothing elfe but the finest Bengal muslins.

Σίτος. Wheat corn.

Dr. Burgefs has specimens of both forts, the one with gold fpots like lapis lazuli, and not transparent. To cut like an Indian fword, is a com- Periplus, but not perhaps juilly.

Egypt, Shaw (p. 364.) fays, the hardest tools (as drills for working the granite Obelilles) were made of Indian iron. Shaw quotes the

mon Arabick provers in Arabina. And in

Σκέπαρνα.

Σκέπαρνα: Αίδες.

In contradiffinction to πελύπια, hatchets,

Σπεύη αργυρα. Silver plate.

Yana.

Veffels of chryftal, or glass in imitation of chryftal.

Σμύρνα. Myrrb,

Διαφέρυσα τῆς ἄλλης, Of a fuperior fort,

Έκλευτή, Of the best fort,

Στακτή. Gum.

Acequardus, read Σμυγκία, by Bochart, Geog. Sac. ii. 22. Salm. 320. Extract or diffillation from myrrh, of the fineft fort. The reading is proved by Salmafius from a fimiliar error in an inedited epigram.

Στημι. Στίμμι. Stibium for tinging the eyelids black,

Στολαι "Αρσινοητικαι.

Women's robes manufactured at Arsinoè or Suez.

Στύραξ. Storan.

One of the most agreeable of the odoriferous refins. There are two forts, storax in the tear, supposed to answer to the ancient styrax calamita, from its being brought in a hollow reed, or its distillation from it; and common storax, answering to the stacke styrax of the ancients. It now grows in the neighbourhood of Rome; but the drug was anciently brought thither from the islands in the Archipelago. See Salim. p. 1026. Chambers in voce. Most of these gums, refins, and balsams have in modern practice yielded to the American, as this seems to have given way to the balsam of Tobu.

Σῶματα, p. 15.

Slaves from Africa, an ancient trade! but the number was not great.

#### T

Υάκινθος.

The hyacinth or jacinth, a gem of a violet colour. But Salmasius fays it is the ruby, p. 1107. See Solinus, c. xxx. p. 57. where it feems to be the amethyst.

# X

Χαλκὸς. Brafs or copper.

5 Strabo mentions flyrax in Pifidia; a diffillation from a tree, caused by a worm breeding in it. Lib. xii. p. 570-Халивереримта. Χαλμεργήματα.

Veffels of brafs, or any fort of brazier's work.

Χελώνη.

Tortoife-fhell feems to have formed a great article of commerce, for ornaments of fuvniture, as beds, tables, doors, &c. both in Italy, Greece, and Egypt. It was brought from the coafts of Africa, near Moondus; Socotra, Gadrolia, Malabar, and the Lackdive, or Maldive illands; the former feem to be deligned by χρυσιούρσι of the Periplüs.

XIT WVEC.

Under garments, imported from Egypt into Africa.

Xenpa. Specie.

The Periplûs is very accurate in noting the ports where it was neceffary to trade with specie; and in more instances than one, notes the advantage of exchange.

Χρυσόλιθος. Chryfolite.

Sometimes the fame as chryfites, the touchftone for gold, Salm. p. 1703; but-deferibed as a flone as it were fiprinkled with fpots of gold, Salmafins, p. 407. who points out what it is not, but cannot determine what it is. It may well be the topax ".

Χρυσέν,

Used with δηνάφιον, as is αργυρῶν also, expressing gold and filver denarii.

Χρυσώματα, Gold plate.

<sup>60</sup> The Bohemian is yellow with a greenish not, the Oriental is very pale yellow. Dr. Burgefs's Oriental topaz deep yellow.

#### No. II.

An Account of the Adulttick Inscription colleded from Chishull, Montfaucon, Melchisedeck Thevenot, and other Authors.

 $T_{\rm HE}$  Adultick Infeription is in itself one of the most curious monuments of antiquity, but the preservation of it, and the knowledge which we have of it at this day, are still more extraordinary than the inscription itself. Cosmas (thyled Indicoplenses, from the supposition that he had navigated the Indian Ocean, which in truth he had not,) copied a Greek inseription at Adule, which has since appeared to relate to Prolemy Euergetes, and to prove that he had nearly conquered the whole empire of the Seleucidae in Asia, and the kingdom of Abyssinia in Africa: two historical facts of considerable importance; notwithstanding, his success in Asia was scarcely discovered in history', till this monument prompted the inquiry, and the conquest of Abyssinia fittle rests upon this evidence alone.

The veracity of Cofmas, in his report of this infaription, is ellablished upon proofs which have nearly united all fuffrages in its favour; fome obfcurity there fill remains, and fome few objections naturally arife, to which Chishull has given a fufficient answer. But there is one observation of his that is irrefragable, when he

It does not now appear in any hillory to the ertent that the marble afformes, or in any one author that I can differer, except a fingle

fays that Cofmas himfelf did not know ' to which of the Ptolemies it belonged, and confequently he could not be the forger of particulars which accorded with one, and one only of the whole Dynasty.

The work of Cofmas is flyled Topographia Christiana, and is intended to prove that the earth is a plane, in opposition to the philosophical notion of its being a sphere, which the author conceived to be an heretical opinion, contrary to the revelation of the feriptures. He had himfelf travelled much, and in the parts he vifited, he ftill found they were all on a plane, as well as Greece; in confequence of this notion, his deductions are rather extraordinary; but the facts he relates, and the countries he defcribes, are given with all the marks of veracity that fimplicity can afford.

There were two copies of his work, one in the Vatican, fupposed to be of the ninth century, and another at Florence in the Library of Lorenzo 4, attributed to the tenth. In 1632, Leo Allatius published the Adulitick Inscription from the copy in the Vatican'; and this was republished by Berkelius in 1672, and again by Spon in 1685, both from the extract of Allatius. The fame infeription was again published by Melchizedeck Thevenot, in his Collection of Voyages, from the Florentine copy, extracted by Bigot. And finally the whole Topographia Christiana was edited by the indefatigable B. Montfaucon in 1706. Spanheim, Vossius, and Vaillant, all bear testimony to the authenticity of the infcription,

<sup>\*</sup> He certainly likewife did not know the of the Vandals of 1798, who can fay they geography he details, and therefore he could are? not forge it. See Levke Kame, a place . See the account of this library in Refcoe's

on the Arabian fide of the gulph, which he Life of Lorenzo. confounds with Leukogen on the Ethiopick 5 Chilhuil.

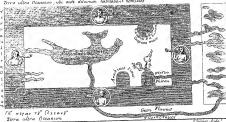
fide, in his own remarks on the marble, Were, we fay, because after the irruption Patrum, in two vola. folio, Paris 1706.

<sup>6</sup> The publication is flyled Nova Collectio





In algar of accard by da mpo of acras draps array xous of arbos not



and the internal evidence is fuch as hardly to leave a doubt upon an unprejudiced mind. Let us now hear Cofinas foeak for himfelf.

Extract from the Topographia Christiana' of Cosmas, written A. D. 545, p. 140. ed. Montfaucon.

Adule is a city of Ethiopia, and the port of communication with Axiômis, and the whole nation, of which that city is the capital; in this port we carry on our trade from Alexandria and the Elanitick Gulph'; the town itself is about two miles from the shore, and as you enter" it on the western side, by the road that leads from Axiômis, there is still remaining a chair or throne which appertained to one of the Ptolemies, who had subjected this country to his authority. This chair is of beautiful white marble ", not flo white indeed as the? Pro-connesian", but such as we employ for marble

ten years, and renewed afterwards for ten pear; mean as the execution is, these are a years more, fearce a word occurs in history concerning Ptol. Energetes, till this account on the marble was discovered by Cosmas more than 700 years after the invation of Ethiopia by this monarch. CHISHULL.

Mritten in different authors Axuma, Axoma, Axioma, and Axiomis.

The trade of Solomon and Hiram was carried on from Eziou Geber, at the head of the Elanitick Gulph. And in all ages, I imagine Ela, Aila, or Ailath, to have been the mart to which the Phenicians of Tyre reforted, or to Phenicon, which perhaps took its name from them. Els and Phenicon may at different times have been in the possession of Nubatheans, Petreans, Egyptions, Tyrians, Hebrews, or Romans.

. 12 See the view of Adult in Cofmas's draw.

7 After the peace made with Seleucus for ing, in which both pyramids and obeliffs apcertain proof that the manners and cultoms of Abvilinia in that age were Ethiopick and Egyptian. Bruce found the fame at Axuma, and if he could have stopped at Meroè to examine the ruins he there passed, assuredly they would have been Egyptian also or Ethiopick. He faw no remains of ruins from Axûma to Meroè.

" Accumation valuable, coffly.

12 The island of Proconnesus in the Propontis naturally supplied Constantinople with marble, with which it to much abounded, as to change its name to Marmora, and to give that title to the Proportis, now called the Sca of Marmora. A monk of Conflantinople of course referred to the marble with which he was most acquainted. The church of Santa Sophia is built with Proconnefian marble.

tables; it flands on a quadrangular bafe, and refts at the four corners on four flender and elegant pillars", with a fifth in the centre, which is channeled in a fpiral form. On these pillars the feat is supported, as well as the back of the throne, and the two sides on the right and left.

The whole chair with its base, the five pillars, the seat, the back, and the two sides, is of one entire piece, carved into this form; in height about two cubits and a half, and in shape like a bishop's throne ".

At the back of the chair is a tablet of bafanite [or touch] ftone", three cubits in height, the face" of which is an [oblong] fquare, while the whole maß is in the form of a lambda, rifing to a point at the top, and spreading at the bottom, A. But the front" is quadrangular. This tablet is now fallen behind the chair, and the lower part of it is broken and deftroyed, but the whole of this [stone or] marble and the chair tifelf is [in a manner covered over and] filled with Greek characters.

13 Arria silna.

fquare [an oblong fquare] on the broad face, and like a  $\Lambda$  on the fides, the broad fuperficies is fo reprefented in the drawing of Cofmas, an oblong fquare broken at the corner, the chan-

nelling of this tablet is represented as carried round the broken corner, whether this is the error of Cosmas or the engraver must be determined by the MSS.

<sup>17</sup> Σ<sup>2</sup><sub>204</sub>, hody, the whole hedy or mafs of a mayble in the form of a fambda cannot be a fquare, but a wedge; it is one of the faces of this wedge which must be meant, and even this would not be a fquare, but quadrangular («reg/sys»), as repreferted in the drawing of Cofmas, that is a narallelogram.

<sup>&</sup>lt;sup>32</sup> Bafanites is fuppofied to be an Igyptian martile or granite, and the name also to be Egyptian, and not Greek from βάσωως, as it is ufmilly efteemed. See Chambers's Dictionary, art. touchione. The Greek term βάσωως, might possibly be derired from Egypt, the country where the touchflom was procured. But it is perfectly Greek in its ufage and derivation.

<sup>16</sup> Tregdywow is land. I render this literally, but not correctly. Chiffield writes, ad modum tabulæ pictoriæ, but how διαδ has that fenfe I cannot determine. I fuppose this bafanite stone or marble to be in the form of a wedge,

Now it so happened that when I was in this part of the country, about five and twenty years ago", more or lefs, in the beginning of the reign of Justin the Roman emperor, that Elesbaan" the king of Axiomites, when he was preparing for an expedition against the Homerites" [in Arabia] on the other side of the Red Sea, wrote to the governor of Adulić, directing him to take a copy of the inscrip-

78 The reign of Jultin commences in 518. The expedition of Elethans is ufually placed in 525, the eighth year of Jultin, but the marble might have been copied a year or two years before the expedition.

· 19 It is a most remarkable circumstance, that in a hillory to obscure and wild as that of Abyffinia, any fact fhould be chablished upon fuch clear and fatisfactory grounds, as this of the reign of Elefbaus and his expedition into Arabia. But the authorities adduced by Baronius, Montfaucon, Ludolfus, Chiffeell, and Bruce are to express, that there cannot remain a doubt; and if that reign is cliablished, the veracity of Cofmas needs no other support. Now it appears from the evidence they have adduced, that the fovereigns of Abyffinia, in the reign of Jullin, about the year 525, had extended their power into the country of the Homerites, which is a diffrict of Sabia, where they had a governor refiding; it appears also that some Abythuians had been put to death by Dunaungs, one of the native chiefs in Arabia, and a Jew, who are still considered as martyrs to their faith, and that Elefbass undertook an expedition into Arabia, in which he was fuccefsful, and punished the affaffin of his fubjects. His Abyfinian title was Caleb el Atfelia, or Caleb the Bleffed; whence the Greek corruption of Eleibus, Eleibuss, and Elefbaan (Bruce, vol. i. p. 503. Ludolf, vi. p. 165. Hift. of Ethiopia). Bruce affures

us, that this history is confirmed by the Chronicle of Axams, and Montfaucon cites Nonnosus in Photius, whose tellimony corroborates the chronicle in the amplest manner,

(Montfaucon Nova Collectio Patrum, tom. ii. p 140.) for Nonnolus speaks of himself as embaffador from Justin to Kaifus, an Arab prince of the Khindini and Maadeni, and to Elefbáns king of Axůma, agreeing fo much both in time and name with the Elefbáas of. Colmas, that it induces a conjecture that Cofmas was a monk in the fuite of the embassador (see Photius, p. 6. ed. Geneva, 1512, with the citation of Nicephorus in the maroin). But without taking this into the confideration, it is a natural confequence, if Elefbass is proved to be the king of Axûmain that age, that the account of Cosmas is worthy of credit. Bruce adds, that Mahomet in the Koran mentions Dunaanas, not by name, but as mafter of the fiery pite, alluding to the martyrs who were burnt (vol. i. p. 516.). Other authors cited by Montfaucon are Metaphraflus, Calliflus, Abulpharage.

<sup>50</sup> Cofmas himfelf, in another fart, deferibes the country of the Homerites as lying on the cost of Adea beyond the finite; but as they occupy the angle of the continent, their territory may extend both within and, without the fixaire. See Ptolemy, Afia, tab.

tion 11, which was both on the chair of Ptolemy, and on the tablet, and to fend it to him [at Axiômis].

The governour, whose name was Albas", applied to me and to a merchant of the name of Menas, to copy the infeription; Nenas was [a Greek of my acquaintance, who afterwards became] a mouk at Raithû, and died there not long ago. We [undertook the business together, and having completed it,] delivered one copy to to the governour, and kept another for ourselves. It is from this copy that I now state the particulars of the infeription, and I ought to add, that in putting them together [and drawing my own conclusions from them,] I have found them very useful for forming a judgment of the country, the inhabitants, and the distances of the respective places. I ought to mention also that we found the figures of Hercules and Mercury among the carvings, at the back of the

This is the form of the feat " and the marble. And Ptolemy himself [feems to speak in the words of the inscription].

(Here

<sup>21</sup> It is highly probable, that Elefbaan underflood the language, as he was a chriftian, and of the church of Alexandria. His intercourfe afto with the Greek emperor at Confinationole flreughtens this fuppolition. And in the earlier age of the Periplôs we find Zôfkakes mafter of that hazuguage.

<sup>21</sup> Afbas and El-Afbas must be the same, and there is nothing extraordinary in supposing that both the king and the governour might both assume the title, at seba,

the bleffed, the faint,

23 I have here omitted a conjecture of the monk foreign to the fullect.

<sup>26</sup> Cofma fays, that makfaffors were excepted before this chair in his time; that which ther is was a endom continued from the time of Yodeny he could not feys. Partec mentions a flowe at Antona critiling fill, on which ke kings of Abyfilian were enthroased and crowned, and which likewife load an infeription with the name of Ptclemy Buergetes. Had either of thefe feets may concern with a tradition or realloud rivered from Ptclemy 28 ce Braces,

(Here was inferted a drawing by Cosmas himself represented in the opposite plate, and copied from the MS. by Montfaucon.)

Inscription upon the figure or square table in the form of a A.

Ptolemy the Great, king, fon" of Ptolemy, king, and Arfinoe. queen, gods ", brother and fifter "; grandfon of the two fovereigns Ptolemy, king, and Berenice, queen, gods prefervers18; descended

marble does not mention Axuma; and more fo, if upon the credit of Bruce we conclude, that Ptolemy vifited Axuma in person. That indeed does not quite follow from the ftone being found there with his name. But one inference we may make in Cosmas's favour, he knew Axûma, he knew it was the capital of the country; if he had forged the infeription, Axuma would doubtlefs have been admitted.

25 This genealogy at the commencement does not quite agree with another at the conclution, where the king fays, that Mars was the father quba begat him (b; μ) xal iyimazı,). But as these Macedonian sovereigns imitated Alexander in his vanity, if they would have gods for their unceftors, it is not to be thought firange, that their genealogy should fluctuate. I think the inconfiltence due to the vanity of the king, and that it ought not to be attributed to the millake of Cofina, or to his lapfe of memory.

36 In the character of SEON AMEAGON, gods, brother and fifter, and OFAN MATHERN, gods prefereers, we have one of the most illustrious proofs of the authenticity of the inferintion

Beger had objected that on the coins of Ptolemy Soter and Berenice, OEON only was found; and on those of Philadelphus and Arfinoe, AAEAGON only. But foon after the

vol. iii. p. 132. It is extraordinary that the objection was ftarted, two gold coins were brought to light with the united heads of Ptolemy Sôter and Berenice, of Philadelphus and Arfince. The former had no infeription, but the latter displayed the SEGN ASEAGON. exactly corresponding with the Adulitick marble. Vaillant, Hift. Ptol. Regum, p. 72. EGTHPON was not found, but an equivalent is cited from Theocritus Idyl. 17.

Menel Ciba xal marel Studios figuro más. Έν δ' αυτώς χρυσώ περικαλλίας του έλέθαση. ' Ιζουσα, παιτεσου Ισιχθούωσα ΑΡΩΓΟΥΣ.

In which they are evidently conferrated as deities with the title of APOFOYE. Chilhull. A fecond objection of Beger's was, that Philadelphus had no children by Artinoè his wife and fifter. But the Scholiss't on Theocritus Idyl. 17. fortunately furnished an anfwer to this alfo, who fays that Ptolemy Philadelphus was first married to Arimoè, daughter of Lysanachus, by whom he had Ptolemy, (afterwards called Energetes,) Lysimachus and Berenice. But that having discovered this Arfinoè engaged in fome conspiracy, he banished her to Coptus, and then married his fifter Arfinoè, and adopted as her children. those he had had by the other Arsnoe. This -Arfinoè, his fifter, was worthipped by the Egyptians under the title of Diva Soror, and Venus Zephyritis. Chifbull,

ει ΘΕΩΝ ΑΔΕΛΦΩΝ.

28 GEGN EGTHPON.

on the father's fide from Hercules for of Jupiter, and on the mother's fide from Dionyfus for of Jupiter, [that is, Ptolemy for of Ptolemy and Arfinoè, grandion of Ptolemy and Berenicè,] receiving from his father the kingdom of Egypt, Africa, Syria, Phenicia, Cyprus, Lycia, Caria, and the Cyclades, invaded Afia with his land and fea forces, and with elephants from the country of the Troglodytes and Ethiopians. This body of elephants\* was first collected out of these countries by his father and himself, and brought into Egypt and tamed for the service of war. With these forces Ptolemy advancing into Asia \*\* reduced all the country on this side the Euphrates, as well as Cilicia, the Hellespout, Thrace, and all the forces in those provinces. In this expedition, having captured also many Indian elephants, and subjected all the princes to his obedience, he croffed the Euphrates, entered Mesopotamia, Babylonia, Susina\*\*, Persis, Media, and the whole country as far as

<sup>29</sup> A fact noticed by all the historians, and preferved by Agatharchides, as almost the only commerce remaining on this coast in the time of Philometor.

3º So very little of this conquel appears in history, task, having this inferijiton only in Therenes's work. I had doubted the whole, the history had been been been been been pina, which conditmed the fad, and again at racked my attention; but having afterwards procured Chiffull's work, (Antiquittees Afracted, 1) from the had anticipated this pullige, and many of the other observations which I had taken former pains to collect. See Ap. Syriace, p. 635. Schweighentifer's cd. No. 75 person on Daniel mentions their conquells; promote Daniel mentions their conquells; and control of the 
31 Rollin touches on this expedition of Ptolemy, but makes it flop at the Tigris, vol. vii. p 307. but Ptolen's here expressly fays he entered Sufiana, and as Rollin confesses the refloration of two thousand five hundred Egyptian flatnes we may afk, where could they be found except at Sufa? The cause of this invasion was the infult offered to Berenice, filler of Euergetes, whom Anticohns Theos had divorced, and whom Schucus, his fon by Artinoè, finally put to death. See Juffin, lib xxvii. c. t. Julin mentions that he would have fulidued the whole kingdom of Sciencus, unlefs he had been recalled by diffurbances in Egypt. The two thousand five hundred flutues, and forty thou and telents, I find in the notes on fullin, but whence deduced I know

Bactria", and brought the whole under his dominion. [In Perfis and Susiana] he collected all the spoils of the temples which had been carried out of Egypt by [Cambyfes and] the Perfians, and conveyed them back again to that country 33, with all the treasures he had accumulated in his conquests, and all the forces which had attended him on the expedition; all these he embarked upon the canals 24

Tanro ufque in Indiam ; Bayer, p. 61. Bayer moderates the conquest, and appeals to Theocritus and the Adulitick marble. But the marble certainly confirms in a great degree the citation; which is from Polyzenna-

he is faid to have been flyled Energetes, the benefactor.

34 The inferription is here manifeffly left imperfect, and that apparently on account of that part of the tablet which was mutilated. We are therefore at liberty to conjecture what thefe canals were, confident with the nature of the countries alluded to. Chifhull looks to the canals on the Euphrates; but let us reflect, that the palace of Cambyfes was at Sufa; thither the spoils of Egypt were sent by the conqueror, and there they would be found by Euergetes, if they had not been removed by the Macedonians, or the kings of Syria. Much notice is taken in history of the treasures at Susa being plundered; but the fpoils of temples, Egyptian gods and statues had little to tempt the avarice of the conquerors, and would have been moved to little purpofe, at a great expence. It is highly probable, therefore, that Euergetes found them still at Sufa; and if we consider that Sufiana was of all the provinces of the Persian

25 Ptolemans Energetes devicit Scleucum; empire, the one most furnished with, and omnia fine hello et certamine occupavit a most intersected by canals, we shall have no difficulty in concluding, that these cumbrous deities were embarked upon that canal which united the Euleus with the Mefercan near Sula; and that they were brought by this fiream, now called the Suab or Soweib, into 35 It is for this favour to the natives that the Euphrates near Korna. From Korna they would be conveyed up the Euphrates to Thanfacus, or higher, and require no other land carriage but from that point to the bay of Issus. This would certainly be the best and leaft expensive conveyance from Sufa to Egypt, and there could be no other water carriage unless by the Eulzus to the Gulph of Perfia, and fo round the continent of Arabia into the Red Sea. If it could be proved from hillory that the flects of Euergetes had ever circumnavigated Arabia, we might admit this as the readiest mode of conveyance; but I have fearched hiltory in vain to establish this conclusion. If it was contained in the point of the tablet broken, we have much reason to Isment the loss; for so persuaded am I of the authenticity of the infeription, that I fhould admit the fact without hefitation, if found there. I can only now add, that the canal from Sufa to the Euphrates, and the carriage thence up to Thapfacus, afford the most probable clue to this passage.

This, fays Cofinas, was the infeription on the figure or tablet, as far as we could read it, and it was nearly the whole, for only a finall part was broken off. After that we copied what was written on the chair, which was connected with the infeription already given, and ran thus:

After this, having with a ftrong hand compelled the tribes bordering upon my own kingdom to live in peace, I made "war upon the following nations", and after feveral battles reduced them to fibitedion.

35 Mark the use of the first person. Whether the change from the third person to the first be caused by Cosmas or the inscription, must be doubtful. We might well suppose both inscriptions to run in the first.

3º Cofmas has many curious particulars of thefe countries himfelf; as, th. The Homerites are not far diffant from the coaft of Barbaria [Add.]; the fea between them is two days' fail acrofs. This proves that he places the Homerites fomewhere eart of Adenon the ocean.

 Beyond Barbaria [Adel] the ocean is called Zingium [Zauzibar the Caffre coaft], and Safut is a place on the fea coaft in that tract. This fea also wastes the incense country [Adel and Adea], and the country where the wold mines are.

3. The king of Axionis fends proper persons there by means of the goor-mour of the Agons to traffick for gold. Many merchants join this curawin, and carry oxeo, falt, and iron, which they exchange for gold. They leave these articles and retire,—when the natives come and laves as much gold as they chust to offer. If this is thought inflicient, on their return they take the gold and leave the articles.

This is a very extraordinary pafinge, as it proves that the Abyffinians traded in that age, as they fill do, not by fea, but tilland through their fouthern provinces. And the exchange is finally to modern practice, both on the borders of Abyffinia, and other tribes of Africa. Montf.

4. The winter [that is the many feafon,] in Ethiopia is in our fummer; the rains last for three months from Epiphi to Thosh, fo as to fill all the rivers and form others, which empty themselves into the Nile. That of these circumflances I have feen myfelf, and others I have heard from the merchants who trade in the country.

5. The great number of flaves procured by all the merchants who trade in this country; a trade society expension of the procured by a trade society expension of the procured procured by Broce 1200 years after his age. It is worthy of remark that Abylfisian flaves bear the first price in all the markets of the cast, and the preference feems to have been the first in all ages. Montfaucon, tom. ii. p. 144. Nova. Col. Patrum.

First the nation of Gazè, next Agamè and Siguè. These I subdued, and exacted the half of their property by way of contribution for my own use."

After these I reduced Ava and Tiamo or Tziamo, Gambela and the country round it, Zingabene, Angabe, Tiama, and the Athagai, Kalaa, and Semêné, (a nation beyond the Nile,) among mountains difficult of access, and covered with snow; in all this region there is hail and frost, and snow for deep that the troops sunk up to their knees. I passed the Nile to attack these nations, and subdued them.

I next marched against Lásine and Zaa and Gábala, tribes which inhabit mountains abounding with warm springs; Atalmo also and Bega, these likewise I reduced, and all the nations in their neighbourhood.

After this I proceeded against the Tangastæe, who lie towards the confines of Egypt; these I reduced, and compelled them to open a road of communication from this country into Egypt. The next tribes I subdued were Annine and Metine, who were seated upon mountains almost perpendicular; and Sefea, a tribe which had

<sup>17 &#</sup>x27;ALL' allage marra dacardas. Hom. x. p. 120. The Homerick cultom of taking half and leaving half.

<sup>18</sup> Airst tim roc wiges v3 Niam, which Montfancon reads in a parenthefis, as no pair of the infeription, but as an observation by Cosmas. But the fact is true, Samen is beyond the Tacazzż.

<sup>&</sup>lt;sup>29</sup> Brace utterly denies the exiftence of fingw in Abyffinia; but it does not quite follow with from this that flow was unknown in former ages. Horace fays, Soracle flat nive candida, but the moderns observe this now never happens. Lobo afters that show falls in Samen

on Sámenê, but în very finall quantities, and never lies, p. 578. Fr. ed. Bruce calls Lodo a liar, but în many instances not without manifest injustice. He allows himself that Samen is a ridge cighty miles in extent; the highest part is the Jews' rock, where there was a kingdorm of Jews till within these few

years.

The fit were possible to identify this tribe with Dangola, it would be a great acquisition to geography. Dangola lies exactly in the proper place, as may be feen by Bruce's map.

retired to a mountain abfolutely inacceffible to an army; but I furrounded the whole mountain, and fat down before it, till I compelled them to furrender; I then felected the best of their young men, their women, their fons and daughters, and feized all their property for my own use.

My next attempt was upon Raufo, an inland tribe in the frankincense country, a region without mountains or water; from this tract I penetrated again to the coaft, where] I found the Solate, whom I fubdued, and gave them in charge to guard the coast [from pirates 7.

All these nations, protected as they were by mountains almost impregnable, I fubdued, and reftored their territories to them upon conditions, and made them tributary; other tribes submitted also of their own accord, and paid tribute upon the fame terms.

Befides the completion of this, I fent a fleet and land forces against the Arabites", and the city of Kinedópolis on the other fide of the Red Sea.; I reduced both to pay tribute, and gave them in charge to maintain the roads free from robbers, and the fea from pirates 42, fubduing the whole coast from Leukè Komè to Sabêa. In the accomplishment of this business I shad no example to follow, either of the ancient kings of Egypt, or of my own family, but] was the first to conceive the defign, and to carry it into execution.

4ª Arabians. 42 The coast of Arabis, north of Yambo, has been notorious for pirates and robbers in

all ages. Leukè Komè, or the White Village, we shall fix when we come to the coast of Arabia in the third book : it cannot be far to Sabéa or Yemen was the feat of all the into obfcurity.

trade from Egypt, both for native and Indian commodities, till the Romans were mafters of Egypt. The Romans had a garrifon in Lenke Komè, and a custom-house, where they levied 25 per cent. on all goods. See Periplûs Maris Eryth. p. 11. Hudf. Leuke Kome from Yambo; and the coast from this village feems, in the time of Cosmas, to have fallen

For my fuccess in this undertaking I now return my thanks to Mars, who 43 is my father, and by whose affistance I reduced all the nations from [Bactria on] the north, to the Incense coast on the fouth; and from Libya. [on the west,] to Ethiopia and Sasus" on the east. Some of these expeditions I entrusted to my officers; but in most of them I was present, and commanded in person.

Thus having reduced the whole world " to peace under my own authority, I came down to Adulè, and facrificed to Jupiter, to Mars, and to Neptune, imploring his protection for all that navigate 46 [thefe feas].

43 "Or us xal lyiman, the father subo begot me. It is a remarkable expression. He has already faid he was the fon of Ptolemy and Arfinoc. defeended from Hereales and Diony'sus, and now Murs is his immediate father. Whatever vanity there may be in the fovereigns, or flattery in the subjects, there is still fomething analogous in these Macedonian genealogies. Alexander is not the fou of Philip, but of Inpiter Ammon. His courtiers, and the family of his courtiers, follow the example of their monarch. They are gods and fous of gods, Our Shareds, Give Environ. The prefumption is rather preuliar, for we may fay to every one of them. Matris adulterio patrem petis.

44 From Abyffinia to the Bay of Zevla. Safus is manifeltly a place on the coast of Add.

45 The whole world is affumed by many conquerors for the world around them. Alexander and the Romans did not conquer the whole world, but used the same language.

46 Trie Tor ThesCourses.

It appears fully from this passage that Energetes engaged in this expedition on the plan of his father Philadelphus, for the extention and protection of commerce, and that

he awed the whole coast on both fides the Red Sea, making them at least tributary, if not a part of his kingdom : but it no where appears that he passed the Straits of Bab-el-Mandeb. Though he vifited the Mofvllitick marts, his approach to them was not by fea, but through the interior of Abyfinia and Adel, as appears by his march from Raulo to Solate, which must be on the coult, from his giving it in charge to the natives to preferve the peace of the fca. The execution of thefe deligns, with the opening a communication inland from Abyflinia to Syčnè, marks the grandness and wifdom of his fyftem, as clearly as if we had a hiftory of his reign, and a detail of his expeditions. Of the latter there is not a trace . remaining but this monument. It is full more extraordinary, that in lefs than feventy years all the notice of this expedition should have funk into filence, and that Agatharchides fhould fay nothing of this plan, but fo far as . relates to the elephants procured at Ptolemáis Thérôn. Can this be adduced as an argument against the reality of the marble? I think not; and I trulk it to its internal evidence-

But if the authenticity of the marble be allowed, what light does it not throw on the boafted:

feas! He alfo [at Adule] I reunited all my forces, [which had been employed on both coalls of the Red Sea,] and fitting on this throne, in this place, I confecrated it to Mars, in the twenty-feventh year of my reign ".

Abyflinian names of Places in the Infeription. Confult Bruce's Map. vol. v. and Ludolfus, p. 14.

Gaza. Geez? but dubious, as it is one of the places first mentioned, and Geez is very far inland; Montfaucon. Pliny's Gaza near Mofyllon is noticed by Chishull; but these places in the commencement seem all between the coast and the Tacazzè, or its neighbourhood.

boafted discoveries of the Ptolemies? It proves, that whatever might be the progress of Timosthenes down the coast of Africa in the reign of Philadelphus, that no commerce was established upon it in the reign of his fon. It proves that the Greeks of Egypt did not yet trade beyond the ftraits, or on the Mofvllitick coall, though they meditated the attempt. It proves that they did not yet go to Aden, but traded to Yemen within the the firaits; and that one object of this expedition was to clear the Arabian coast of pirates, from Leukè Komè to Sabêa: that is, from the top of the Gulph to the bottom. In the whole account not a word escapes that implies a trade with the marts of Arabia on the ocean beyond the ftraits, nor does it afford any reason to believe that the continent of Arabia was yet circumnavigated, or the difcoveries of the Ptolemies brought in contact with those of Alexander.

cing this marble to the knowledge of the reader, agreeably to my defign of tracing the difcoveries of the ancients step by step; and I conclude this account with remarking, that commerce rather fell thort than proceeded in the following reigns; for it flopped at Sabea on the Arabian fide, as it does in this marble, and on the African fide it did not go fo low in the reign of Philometor as in that of Euergetes. 47 Chronologers affign 26 years to the reign of Eucrgetes. But if a king commenced his reign in June, for inflance, and died in October, it might be 26 years in a chronicle, and yet the 27th would have commenced. Chishull fuppofes this to be the fact. Dodwell suppofes Euergetes to have been crowned during his father's life time; and we add, that an error (if it is fuch) in numbers may be more readily imputed to a MS, than made to impeach the marble.

This has been my inducement for introdu-

Agamè. A government in Tigrè; Montf. Ludolf. p. 17. Agam fignifies Jeffamine; Bruce.

Siguè. Bruce mentions Zaguè as a province, vol. ii. p. 534else it might be thought Tigte, from the places mentioned with it; or Sigue for Sire; Erron, Enon.

Ava. The province between Adulè and Axuma. Nonnofus: Chishull. Axuma is in the province of Tigrè. Ava is still found as a district of Tigrè.

Tiamo or Tziamo. Tzama a government of Tigrè near Agame: Montfaucon. It feems to be the kingdom of Damot. But there is a Tzama in Begemder; Ludolf. p. 14.

Gambêla, Gámbela. There is a Gaba noticed by Ludolf, but nothing to mark its relation to Gámbela.

Zingabênè. The country of the Zangues, Zinguis, or Caffres.

Angabè, read Anga-bênè. The kingdom of Angot.

Tiama, Tiamaa, Vatican MS. Tigrè-mahon! a mere conjecture. But Mahon, Macuonen, fignifies a governor or government; Ludolf, p. 20. It is idle to fearch for an equivalent, as it is possibly only a repetition of Tiamo.

Ath-agai, Agoa; Montf. Agows; Bruce.

Kalaa. Nothing occurs but the mention of it with Semêne.

Semênê, Samen, Semen. Montf. The Tacazze is the boundary between Samen and Sirè; Bruce, iii. p. 252. The fnow mentioned in. in the Infeription is denied by Bruce, but the mountains, eighty miles in length, are acknowledged by him; Ibid. And the Infeription mentions passing the Nile (Tacazzz) to Semêne.

Lafinè. Still fo called; Cofmas; Lafta.

Zaa. Still fo called; Cofmas. Xoa, Shoa, or Sewa; Ludolf.

Gabala. Still fo called; Cosmas. There is a kingdom of Bali in Ludolph, p. 14. and a Gaba, p. 15. but nothing certain.

At-almo. Lamalmon the great mountain. At, feems to be an article or prefix, as in Ath-agai.

Bega. Beja and Begemder are still two provinces of Abyslinia.

Tangaitæ. Voffius reads Pangaitæ, in order to prove that Panchaia the Frankineense country is not in Arabia but Africa; Vof. ad Pomp. Mel. lib. iii. c. 8. Chishull. But the Tangaitæ are a tribe between Abyssinia and Egypt, i. e. at Sennaar, Dongola, or Meroc, most probably at Sennaar or Dongola. Dongola is written Dangola, not unlike Tanga. But whether Dangola is an ancient name I cannot discover.

Metine, Annine. Nothing occurs to afcertain these places. The Inscription passes from the northern frontier of Abyssinia to the fouthern with these names between, noticing only that they are mountainous.

Sélea. Barbaria, coast of Adel; Cosmas. Apparently on the mountains which divide Adel from Abyssinia. See Bruce, vol. iii. p. 250.

Raufo. Barbaria; Cofm. According to the Infeription itself it is inland from the frankincense coast of Barbaria (Adel), and Solatè is on the coast.

Solatè. Barbaria; Cofm. These three places correspond in number with the three on the Mosyllitick coast mentioned in the Periplûs. The modern maps have a Soel.

Arabites. Homerites; Cofmas. But Cofmas is in an error. The Homerites are on the ocean; these are the Arab tribes on the coast of the Red Sea opposite to Suakem and Abyssinia, as appears by the Inscription.

Kinedópolis. Homerites; Cofmas. But Cofmas is miftaken. It lies on the coaft of Arabia not far from Yambo, between Leukè Komè and Sabèa, agreeably to the Infeription itself. See Ptolemy, Asia; tab. vi.

Pirate Coaft. Not noticed as fuch, but their piracies marked. Probably the Nabathèans or wild tribes above Yambo, always pirates, and fubdued by the later Ptolemies and by the Romans. They are pirates at this day.

Leukè Komè. Leukogen, in the country of the Blemmyes; Cofmas. Another proof that Cofmas could not be a forger, for Leukè Komè is in Arabia, above Jidda, and he places it in Ethiopia. It is the Hawr of d'Anville. Sabêa. The Homerites; Cosmas. But really Yemen, the Arabia Felix of the ancients.

Safus. At the extremity of Ethiopia where gold called Tancharas is obtained. It lies upon the fame ocean as Barbaria (Adel), where frankincene is procured; Cofmas. By Ethiopia he means Abyffinia, and Safus muft be near Zeyla.

Adûlè. The port of Abyffinia in the Bay of Mafualı.

### No. III.

#### ΕΙΤΕΝΗΔΙΟΜΜΕΝΟΥΘΕΣΙΑΣ.

 $\mathbf{T}_{\text{HE}}$  readings of this extraordinary polyfyllable are as numerous almost as the editions, and the authors who have had occasion to cite it. The corruption is evident to all, but no two agree in the correction.

# The whole passage stands thus:

Μιθ δη, ποταμοί πλέιονες, ης ἄλλοι συνεχείς δομοι, διηρημίνοι κατά ς αθμός ης δεξαιος ήμερφτίες πλέιες, τός πόντας έπτά, μέχρι Πυφλλάσιν υήταν, ΚΑΙΝΗΕ ΑΕΓΟΜΕΝΗΕ ΔΙΩΡΥΧΟΣ, ἀδ' ής μαφὸν ἐπάνω ΤΟΤ ΛΙΒΟΣ, μετά διό δρόμες υγχήμερους, παφ ΑΥΤΗΝ ΤΗΝ ΔΥΣΙΝ ΕΙΤΕΝΗΔΙΟΜ-ΜΕΝΟΥΘΕΣΙΑΣ ἀπαυτά υήσος.

Salmafius reads σόρ ἀυτό τὸ Πρώτον ἄμροι ὑς ὑω Μενθιδις ἀνασταῦ τόμους. Blancard follows Salmafius, but in this correction, τὸ Πρώτον ἀνροι ὑς affumed without a fladow of refemblance, and is as wrong in point of geography as criticism. The Menûthias of the Periplûs has no reference to Pratium whatever; and the mitake of Salmafius arifes from supposing that the Menûthias of Ptolemy and the Periplûs are the same, which they certainly are not.

#### Others read,

"Eirs Μευυθιας απαντά νήσος. "Είτε νη δί εω Μευυθιας απαντά νήσος.

48 The Balil edition reads in des Hopsham-

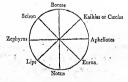
Henry Jacobs, in Hudfon's Minor Geographers, vol. iii. p. 68. reads,

πας ἀυτήν την δύσιν εις τι νότιον Μενεθιάς ἀπαντῷ νῆσος.

But Henry Jacobs adds alfo, that Prafum is not Mofambique but the Cape of Good Hope. He can find no authority for this, but the eftimate of Marinus, and Marinus himfelf corrects his excefs, and reduces his latitude of 34° fouth to 23° 30′ 0″. See Ptol. lib. i. c. 7.

Impressed with the appearance of these difficulties, I venture on the following discussion with no common uncertainty; and little practised as I am in the science of correction, I decline the grammatical and critical part of the inquiry, and wish to confine my resections almost wholly to what is purely local and geographical.

I. First then it is to be observed that our author has certainly not more than eight "quarters of the heavens, or as we should say in modern language, eight points of the compass, the same number as is marked upon the eight fronts of the Temple of the Winds at Athens, under the following appellations:



\*\* It is not intended to fay that the whole not more than eight. It uses Aparchias for-eight occur in the Periplus, but that it has the north, Dufis for the west.

In

In the application of these, or the terms equivalent to these, the Periplûs is by no means accurate; of this we have a direct proof in laying down the coast at Arômata, and in its neighbourhood, where, if our charts are accurate, as they are generally at least, it is impossible to apply the points of the Periplûs to the actual state of the coaft.

II. Secondly, let us examine the points of the compass specified by the author in this paffage, and his manner of expreffing them : thefe are endow to Aibos, or en' dow", and mag durno the duois, answering to the west and south west in the foregoing figure; and here it is observed, that eman or em and TE A.Gos, is not known as a Greek idiom. But let us suppose it to be a nautical phrase, how is it to be interpreted? Africum versus à superiori parte? Altius quam Africus? Above the fouth west? If this has a meaning in Greek what is to be understood by above? Is it more to the fouth or more to the west? that is, is it fouth west by west, or fouth west by fouth? The difficulty which occurs here, induces Dr. Charles Burney, of Greenwich, to discard the expression and to read en' avaroning for ἐπάνω τῦ Λιβὸς.

In the next place how are we to understand παρ' ἀυτήν την δύση? Hapa, according to the lexicons, has a fense of motion to a place. In which form it might be rendered directly to the west, to the west direct. The general usage for this in the Periplus is is Noros, p. 7. is ανατολήν, ibid; but in p. q. almost immediately preceding the passage before us, παρ' ἀυτὸν ήδη τὸν Λίβα feems to express the direction" of the

to 'Rerain with a genitive is in common use, juxtaposition, or side by side, as magnices, but whether it can be used with a wind, or in magazingure. See Odys. E. 418. 440, wineswhat fense, is dubious. Excess 78 regentuaror, wagantaguer, where the waves do not break above the firmament, is a known idiom. . directly against the coast, but run along the It The primitive fense of maga, feems to be fide of it.

coast lying fouth west and north east as we should express it in English, or the course of a vessel along the coast in 2 fouth west direction.

III. Thirdly, we must inquire how these expressions can be applied in any of their fenfes to the actual geography of the coast and island; and here I affume Menûthesias or Menûthias for one of the Zanguebar islands, from the distance specified, which is at thirty stadia from the coast, equal to eight or ten miles, and corresponding with the distance of no other islands in this part of the voyage. Of the three Zanguebar islands, Monfia the third, or southernmost may well be preferred from the account of diffances in the Periplus. both previous and subsequent. And if we assume Monsia, our next inquiry must be, how this lies with respect to the coast; the chart will shew that it lies directly east. A sufficient cause to justify the reading of Dr. Charles Burney, of ἐπ' ἀνατολήν, for ἐπάνω τῶ Λιδός. But let us try if eman To Asog has a meaning, how it could be applied. I have assumed Mombaça for the Pyraláan islands, or rather for the Kann diagout, the new canal st. The veffel is plainly fetting out from this point, [καὶ τῆς καινῆς λεγομένης διώρυχος, ἀΦ' ῆς μικρὸν ἐπάνω τε Λιζός,] that is, from Mombaça, and going down to an island eight or ten miles distant from the coast. The coast itself runs south west, but if she is to stand off the coast for the island, she runs not fouth west, but more towards the fouth than fouth west. Now this is actually the course a vessel must hold to run from Mombaca to Monfia. It would not be fouth direct, but a little to the fouth of

<sup>52</sup> The proofs will be found p. 153. et feqq. fupra.

fouth wort. If therefore ἐνάνω τὰ λιβός can be made a Greek idiom, or a Greek nautical phrase, this I conclude is the only interpretation it could bear. It must be noticed likewing, that this expertion nust be applied to the courfe of the vessel, as πας ἀντὴν τὴν δύσιν must apply to the position of the islands, it is joined with μετα δύο δρόμες νυχθημέρους, as πας ἀντὴν τὴν δύσιν, is joined with μετα δύο δρόμες στανατά πίσες.

What then is  $\pi \omega_i^2$  during the blown . . . . descripe the first lawe fearce the hardiness to lay. We fit cannot be, for whatever lies west from Mombaça, or any point on the coast, must lie inland on the continent of Africa. Neither can it signify the island itself lying east and west, or the three islands taken together, for they lie nearly north and fouth. This reduces a commentator to his last refource, which is either to fay that bern is a false reading, or to find another sense for it, if it must be retained. I consess this dilemma most candidly, and have no more considence in the following suggestion, than just such as the reader shall please to give it.

I do not difeard && on, but give it another fenfe, as the only alternative left to my choice. It has been noticed in the preceding work that && or, and one of the fenfe their literal meaning of west and east, have likewise a relative sense given to them by mariners, in which they are applied to the general tendency of the voyage rather than to the quarters of the heavens, in regard to the ship's place, or the individual point where the mariner is at the moment he is speaking. It is owing to this that when a vessel is proceeding from Mosambique on her voyage to India we read in her journal that she failed to the eastward, though undoubtedly her course was north or north, east; or if the is proceeding to the Cape, it is said she failed

to the westward, though her course is certainly south or south west. An expression adopted on our own coast" also, and perhaps on every other; and I can now shew that this is the language of the Periplûs beyond dispute; for (at p. 35.) when the author is describing the passage round Cape Comorin he has these words, περὶ δὲ τῶν μετ' αυτήν [Λιμυρικήν] χωρών, ήδη πρός ανατολήν τε πλοός απονεύοντος, εις πέλαγος εκκειται πρός αυτήν την ΔΥΣΙΝ, νησος λεγομένη Παλαισιμάνδα. παρα δε τοῖς ἀρχαίοις ἀυτῶν Ταπροδάνη; that is, " When the courfe " takes an inclination to the east round the coast, [or on that part of " the coast] which succeeds to Limyrice, there lies out at sea directly " to the west [fouth] an island called Palæsimoondoo, [by the " natives, ] but which their ancestors used to call Taprobana." The expression here is precisely the same, except that it is mede autily την δύσιν, instead of παρα αυτήν την δύσιν. Προς intimating, as I couceive, the point of the compass, and mapa the course of a vessel in that direction. And if we now ask, what is the meaning of Δύσω, the map will shew in an instant, that Ceylon does not lie WEST from the continent but SOUTH. It is on this evidence that I wish to render Δύσιν fouth, in the passage before us, remarking that the three Zanguebar islands lie directly SOUTH from Mombaça. If this be rejected, I do not fee how to find any application for the term west, in relation to any part of the coast, or to any other island in the neighbourhood.

IV. We come now to the word which is the cause of all this speculation, and in E-resolvapperseducias all the commentators are agreed, that Menûthias in some form or other is to be collected out

<sup>13</sup> The trade to the Baltick is always called the East Country Trade.

of the latter part of the polyfyllable. I thould have wished to confider Mentithias as an adjective rather than a substantive, Menutherian rather than Menuthias. In  $v^{\mu\nu}_{\mu\nu}$  I am led to  $v_{\mu\nu}$  in by the context and the letters, for  $v_{\mu}^{\mu\nu}$  is  $v_{\mu}^{\mu\nu}$  in the writing of MSSs, and v is often turned into  $\mu_{\nu}$  not merely by an error of the copyift, but by coming before another  $\mu_{\nu}$ . If this be allowed, the change of  $\delta$  into  $\sigma$  seems to give  $v_{\tau}^{\mu\nu}$  with great facility.

Let us then examine what the geography requires. It requires that Menuthias, if it is Monfia, should be described as one of the three Menuthesian or Zanguebar islands, or it should be described as the fouthernmost of the three Menuthesian or Zanguebar islands. This is the sense I want to elicit from the corruption; and with as little change of the form as possible, I propose the following conjectures:

Παρ' αυτήν την δύσιν των νησίων Μενεθεσίων, απαυτά νήσος.

Παρ' ἀυτήν την δύσιν εν έκ τίνων [οτ εκ τριών] υησίων, Μενεθεσίας ἀπαυτῷ νῆσος.

But the form I prefer is,

Παρ' αυτήν την δύσιν ήδη των νησίων, Μενεθεσίας απαντά νήσος, οτ

Πας ἀυτήν την δύσιν ἔτι νησίων [ΟΓ νησιδίων ἀπάντων] Μενεθεσίας ἀπαυτῷ νήσος.

In which case ἀπάστων may have been dropped by the repetition of ἀπωντῷ. And in these several readings I should refer νητίων to the Pyralaan islands immediately preceding, and interpret the passage thus:

Almost directly south then of the [Pyralaan] islands you meet with the island Menúthesias, the last of all the islands.

"Hen " is a particle frequently used in this manner by the author, and occurs in this very page, παρ' ἀυτον ήθη τον Λίεα, but if the letters are to be regarded, perhaps παρ' ἀυτον την τον τον ετι υησίων Μυνοθεσίων, α' παυτά υήσος; οτ, παρ' ἀυτην την δύσιν ετι υησίων [Πυραλάων] Μεναθεσίως φ' αναντά υίσος, approach nearer to the form of writing than any others, that will bear a sense of any fort.

I am fensible that it is no true canon of criticism to bend the words to the sense we wish to find; I confess freely I am not fatisfied with any of these corrections, for in this very page the author uses is του Nότου for the south, and πωρό αυτόν πότη πότου for the fouth west; and it is not easy to conceive why he should have used δύτω here instead of νότου, if it were to signify the same point. The only defence I can make, is, to repeat, that no island on the coast can lie west from the coast, and if it is west from any other place, that place I cannot discover. I submit, therefore, the whole of this discussion to the candour of the reader, and those more practiced in critical corrections, with some confidence that if I have not completed the solution of the difficulty, I may have afforded grounds for future commentators to proceed on.

\*4 "Πὸπ is cafter to conceive than to render; Abhine in paffages of this confiruction follows more readily than mox, continuo, &c. hutti is better rendered by nearly; \*δο δὶ το ημέρα, it was jaid day.

35 The only possible relation is which I can conceive bless to be employed, is, in regard to the ship's course when the is running down the suffers side of the Zanguebar islands. But such a course would never be expressed by

wag arm's rab down, in the language of the Periphlas for if it were, the counter down the coast of the main, opposite to Zanguebar must then be expertled by rag' down by διαστολή, as the slip is going down the castlern side of the continent; but this is not fo expersion, it is rag' arm's διαν λόθω, in which the direction of the course is marked, and not the ship's socurie on the seaffern shore.

## I now read the whole passage thus;

Hudfon.

Proposed Text.

Translation.

"Ειθ" ὁ Νίωπος μιθ" ότ, στοτομικό πόμειος, καὶ ἀπλοκ συσεβίε γεικο, διαφικό κατὰ σελληλεί και δεβικό και κατὰ σελληλεί και και (ττιλ, μέζει Περαλλοκο "Νι του "Ι Καινός λυγκότι και Δείρος και "δε μικρό Ιταίκο "1 το Λαθές "ο, μετά δεὸ δείρου τοχθημένος, του δεν δείρου τοχθημένος, του κατά, τλά δεναι Επεποδομματοθένστις για μέτι τροκεσείκος, τακτονί και κατά εδικοτη. "Ell' & Nicesser, Lel' in, wormand withouter, and althous owner open for the season of 
... Next fuscoeds the unchange of Ni.
on, and fart that, fevent irver and other
suchorages in facceffion, diliributed into correlponding contries of one day each, which amount
to feven absopcther, terminating at the Pyralana
iflands, and the place called the new canal.
From the new canal the court is not directly
fouth well, but fornething more to the fouth,
and after two courtes of twenty-four hours
[in this direction,] you meet with the filtand
Monthedias, lying almod directly fouth from
the [Pyralana] iflands, at the diffuser of about
thirty hadin from the continent. Mentithelias
itself is low and woody.

If the question were now asked, whether I am satisfied with this interpretation mysless, I could not answer in the affirmative, for the sense I wished to obtain was, that Menûthias was the most southern of the Menûthesian illands; and this sact I am not able to extract from any position of the words, or any restoration of the passage which I have to propose. I shall therefore only add some emendations of the passage proposed by Dr. Charles Burney, who, however, still doubts whether they ought to be deemed completely satisfactory. If his correction should meet the opinion of the learned, I shall substitute without helitation to his restoration of is "awareaky to saveraky 
<sup>51</sup> Var. Lect. Thyshaus. Balil.

<sup>57</sup> Kar Tos xannis. Burney.

<sup>55 &#</sup>x27;Eg' des. Baf.

πας ἀυτὴν τὴν δύσιν διατέινασα ή Μεναθίας, .... if δύσιν may be rendered.

# Observations by Dr. Charles Burney.

Περίπλους τῆς Ἐρυθρᾶς θαλάσσης. Edit. Princ. Bafilex. *Quarto*. 1533. p. 20. l. 30.

Το ρμοι, διηφημένοι καθα σθαθμόνι καὶ δρόμεν ήμερησίκη πλείους,
 τούς πάθθας ἐπθα, μέχχει πυριλάων νήσων, καινής λεγομένης διώρυχος.
 ἀφ΄ ης μικρὸ ἐπ΄ ἄνω τὰ λιῶς, μεθα δύο δρόμους νυχθημέρεις, παρ΄
 ἀψ'ψη τη δύσιν ἐθενηδιμμμενούθευσίας ἀπαηθά νήσος ἀπό σθαδίων της
 γης ἀσεὶ τριακοσίων, ταπεινή καὶ καβάδενδρος.

In editione Blancardi, Amstel. 1683, in octavo, p. 151. l. 4—14.

L. 2. Πυριλάων. L. 3. Ἐπάνω.

L. 3.4. Νυχθημέρες, παρ' ἀν]ο τὸ Πράσον ἄκρον ἐις ἕω Μενουθιὰς ἀπαν]ὰ νησος, σ')αδίων ἀπὸ τ.

In editione Hudfoni, Geographiæ Vet. Scriptores Græci Minorvol. i. p. 9, l. 26.—p. 10. l. 2. 60

L. 2. Πυριλάων. L. 3. Ἐπάνω.

L. 4. 5. Σ]αδίων από τῆς.

L. 2. Μέχρι Πυριλάων νήσων, καινής λεγομένης διώρυχος.

It is furprifing, that all the editors should have passed over this passage, which is wholly unintelligible; nor will the supposition of

to The references in these remarks are made to Hudson's edition,

της νήσου being understood, between μέχρι and Πυριλάων, remove the difficulty, of which you appear to have been the first observer. Kaurd διάφυξ, as you remark, would, indeed, be an odd name for an island.

The article is improperly omitted, in the latter part of the fentence. Hence the paffage may be thus read:

Μέχρι Πυριλάων νήσων, καὶ τῆς καινῆς λεγομένης διώρυχος:

The word rain is has absorbed rai ris, which might easily happens, from the similarity of sound, and accent on the final is.

L. 3, ἀφὸ ης μικρὸν ἐπάνω τὰ Λιδὸς, μεῖὰ δύο δρόμους νυχθημέρους, παρὰ ἀὐθὰν τὰν δύστυ——

'Επαίνω του Λιδός, on account of the intervention of μεθα δ. δ. νοχόνμέςους, cannot poffibly be connected with πας αθηθε την δύναι, nor would these terms, if they could be united, explain the situation of the island Menúthias. Instead of ἐντάνω του λιδός, read, ἐπ΄ ἀναθολοφ, which precisely expresses the position of Menúthias, with respect to the new canal, or ἡ κωνη διώσεξ, on the coast of Africa.

To remove all doubt about the truth of the correction, the words of Ptolemy may be adduced:

 $^{\circ}\Omega$  (ἀκροηγοίω, τῷ Πρώσω) παράκει]αι ἀπὸ θερινών ἀνώ[ολῶν νῆσος, ἥ ὅνομα Μενουθίας, p. 131.

It may also be mentioned, that Aid is the name of a wind; and not of the coast, over which Africus blows. What possible explanation

explanation then can be given to ἐπάνω του λιθος?—The terms θερμαὶ τροπαὶ τὸ χεμεερναὶ, in Aulus Gellius, ii. xxii. p. 210. edit. Conrad. may illustrate Ptolemy's ἀπὸ θερμῶι ἀναθολῶν.

L. 4. Πως ἀθηλη την δύσιν ἐθρυηδιωμμενουθευσίας ἀπαθίζε νήσος ἀπό σηαδίων τής γής ώσεὶ τριακοσίων.

In the latter part of this portentous word, illevaluapsaveluvelue, Salmalius acutely discovered the name of the island Menûthias; but it is impossible to affent to his change of παφ αθρίν τὴν δίστω ἰζιωτοι διωμ, into παφ αθρίν τὸ Πράσον ἄκερο ἐκς ἔω. It does not appear, that the author of this Periplûs was acquainted with the Promontory of Prassum; and it is certain, that he never uses ἐκς ἕω, but ἐπὶ, ἑκς, or πρὸς, ἀναβολὴν, for Orientem versus. The new reading also does not sufficiently resemble the old, for it to have just claims to admission.

Henricus Jacobius is ftill more unfortunate in his conjecture—

δότην ίζι τι νότηνο Μενουθικές αι. νήτος. This author, indeed, has, p. 27.

1. 26. καὶ τὰ νόὶνα τῆς 'Ἰνδικής.—, but this will not vindicate ἴις τι

νόἢιαν, nor will καὶα τι δικαιον ἀρχῶνο, antiquo quodam juτς, in p. 10.

1. 23. nor in p. 20. l. 3. ἡμέρας ἐ πολύ τι βλέποθιες, if the passage be found, defend this utage of τι with νόἢιον. This author, indeed, has, p. 7. l. 34. ἐις τὸν νοῆνο, and again, p. 9. l. 14. so p. 11. l. 16. καὶα τὸν

γίνο, and p. 12. l. 32. πας ἀνὴὸν νόῆνο,—but τι νόἦιον is unexampled in this Periplüs.

As to the run mercun Memonstrum, or Memonstrum, in more, it is harsh to admit to, and not agreeable to the usage of the Periplus.—Ears marken Memonstrum, would occasion the omission of two words, arassis whose, as you observe; which would greatly invalidate the conjec-

ture, even if the following ταπεινή did not render it inadmiffible.—It is right to state, that the word vyolov occurs in this Periplûs, p. 22. 1. 10. πρόκει αι-α ปี ε νησίου μικρόν.

Salmafius appears, as has been mentioned, to have rightly traced the name Μενουθιώς, in the latter part of this firange word. In the former, εθενηδιωμ, feem to be discoverable the disjoined traces of διαβείνουσα ή. The letters are strangely jumbled; but it is to be recollected, that in the very next line, where Hudson gives of assure ἀπὸ τῆς, the editio Princeps has ἀπὸ σῆαδίων τῆς γ.

Let the author himself defend this restitution. First, for diartiνουσα-

P. 5. 1. 16. en avaloniv-Jialeivei.

P. 6. l. 17, ἀκρωθηρίω τῷ έξ αναβολῆς ἀναβέινουβι, &c. &c.

To conclude, the whole passage should probably be read thus:

"Ορμοι, διηρημένοι καζά σξαθμούς καὶ δρόμους ήμερησίους πλείους, τους πάν]ας επ]α, μέχει Πυριλάων νήσων, καὶ της καινής λεγομένης διώξυχος: જે જિંદ μામદ્રુપ્તે કર્મ જ્યારીગત્રેષ, મકીને વેઇલ વેદુધમલા કાપ્રમિમાર્ક્વાદ, માર્ચ જેમીયેમ જરેત อีบ์รเบ อีเสโร์เขอบรล, นี้ Meseoutiae ฉักลต์ใต้ หรือจะ, ศิลภิเลง ฉักว หรือ หัน ผักระ τριακοσίων, ταπεινή καὶ καβάδενδρος.

### No. IV.

# ANCIENT MAPS of the World.

 $T_{
m HREE}$  plates are here prefented to the observation of the reader, two of which are original, from Cosmas Indicopleuses, and Al Edriffi, and the third is drawn up by Bertius, for the Variorum edition of Pomponius Mela, by Abraham Gronovius, 1722.

I. Pomponius Mela, as earliest in point of time, requires our confideration first, and in this map it will be feen with what propriety the ancients called the extent of the earth, from west to east. length, and the extent, from north to fouth, breadth. Artemidorus" (104, A. C.) is faid by Pliny to have first employed the terms of length and breadth, or longitude and latitude. The dividing of these into degrees, and degrees into their parts, was not effected fully before the time of Marinus, nor brought into practice before Ptolemy. But our prefent inquiry is confined to the appearance of the earth, and here the great object which strikes our attention is the vast fouthern continent or hemisphere, placed as it were " in counterbalance to the northern. The form in which it here appears feems as if the ancients had cut off the great triangle of Africa to the fouth. and fwelled it into another world in contradiffinction to that which they knew and inhabited themselves. It is this supposition which gives rife to the expressions of Manilius

<sup>6</sup> See Agathemeras, in Hudion's Geog. 6 Pom. McJe, lib. i. c. 1. See the map Min. cap. iv. Strabo, lib. i. p. 64. Ptol. itfelf in Granovius. lib. i.



Altera pars orbis sub aquis jacet invia nobis,
Ignotesque hominum gentes, nec transsta regna
Commune ex uno lumen ducentia sole,
Diversasque umbras, levasque cadentia signa,
Et dextres ortus cello spectantia verso. Astron. lib. i.

And the same sentiment in Virgil.

Audiit et si quem tellus extrema refuso
Submovet oceano, et si quem extenta plagarum
Quatuor in medio dirimit plaga solis iniqui.

Æn. lib. vii. 226.

It is this fupposition also which gave rife to the belief of circumnavigations which never took place; for Mr. Gosselin proves that the voyage of Eudoxus cuts through the centre of the great continent of Africa, and Hanno is carried to the Red Sca without passing the equator. This it is which extends the title of the Adantick Occan, to the east of Africa as well as to the west, and makes Juba commence the Atlantick from Mosyllon. All this is natural, if the continent of Africa be curtailed at the twelfth degree of northern latitude, and the voyage shortened by about eighty degrees in extent.

But it may be proper to call the attention of the reader to the view of this fort of a world, as applicable to the Phenician expedition of Herodotus. A veffel failing along the fouthern coast of fuch an Africa as this, has in theory the fun upon the right-hand of the navigators for three parts of the voyage, and this constitutes the circumstance as the grand occurrence of the expedition. But were the same veffel to run into latitude 34 fouth, the real latitude of the Cape, the space during which the sun would be on the right-hand.

hand, is a point in comparison of the other course, and the phenomenon would doubtless have been pointed out in other terms, as the quarter of the heavens, or the place of the luminary.

There is another particular in this map also well worthy of attention, which is the source of the Nile placed in the southern hemisphere, and compelled to run under the ocean, like another Alpheus, and rife again in Ethiopia; now this fable has its origin from one of two causes; for it was either known that this hypothesis cut Africa too short to afford a place for the fources of the Nile, which were carried to an indefinite distance south by the early geographers, and therefore a fituation south must be found beyond the ocean in the other hemisphere, or else it arose from the report of the Nile in the early part of its course, running through a sea with which it never mixes. This is a circumstance which is now known to take place on its passing through the Lake Tzana or Dembea, where Bruce affures us that the course of the stream across the lake is distinctly visible from the high land in the neighbourhood.

Nothing farther worthy of observation occurs in this map, but that it cuts short the peninsula of India as well as Africa, and places Tapróbana or Ceylon as it appears in the tables of Ptolemy. It unites also the Caspian Sea with the ocean, and gives a circumamblent ocean on the north, as navigable as on the south, part of which the Argonauts did navigate! and all but the whole was supposed to have been navigated, by Pliny. It was this supposition which brought the Seres on the north, almost se nearly in contact with the Caspian. Sea, as Mosyllon was with the Fortunate Isles on the south!

<sup>69</sup> To 120 or 130 fouth by Ptolemy.

<sup>64</sup> See the exactuding pages of the Periplûs.

MAP of the WORLD subset from an Arabian Manuscript of M.Edrisi in the Bodieron Edicine.
The subset land in the n. Ginner in Manuscript is of the id 2 North A. The trethic imporphic represent to the threatest between the first former one for over their



how many obstacles has real navigation discovered, which sictitious navigators furmounted without a difficulty?

## II. The Map of Cofmas 65

Is fo poor a composition, and so wholly the conception of his own mind, that it would be utterly unworthy of notice were it not the original production of the monk himself. The veracity of Cosmas, both in regard to what he saw and heard, is respectable, as we shall shew hereafter in his account of Ceylon; but his hypothesis, as may be feen, makes the world a parallelogram with a circumambient ocean, and the rivers of Paradife flowing on the outlide; while the viciffitude of day and night is not caused by the revolution of the earth or the heavens, but by the fun's difk being obscured by a mountain on the north. He also has a Caspian Sea that joins the ocean, and a Nile that runs under the ocean, fpringing from the Gihon of Paradife in another world. The ignorance of an individual is not aftonishing in any age, but the ignorance of Cosmas is extraordinary in the fixth century, when we must suppose the writings of Ptolemy would have been known to a monk of Egypt, and when that monk refided fome years within the tropick, and must have seen the fun on the north as well as on the fouth.

# III. The Map of Al-Edriffi.

I owe the knowledge of this map to the kindness of Dr. White the Arabick Professor at Oxford; there are two Arabick 66 copies of

<sup>65</sup> See plate in the account of the Aduli- of Pocock's, No. 375. Hejira, 906, A. D. of One of Gravers, No. 837. Another taken. 1500. It is from the last that this map is

Al-Edriffi in the Bodleian, and that from which the opposite map is taken is beautiful and adorned with maps for almost every chapter. This before us is a general one, curious because it is evidently founded upon the error of Ptolemy, which carries the coast of Africa round to the eaft, and forms a fouthern continent totally excluding the circumnavigation into the Atlantick Ocean. The learned Hartman supposes that Al-Edriffi's account goes as low as 26° 20' o" fouth. to the river Spirito Santo. It may be fo, for Daguta is his last city. which is but three days fail from Gafta, and Gafta is but one from Komr, the Island of the Moon, or Madagascar. (See Hartman's Al-Edriffi, p. 113, et fegg.) This point and Wak Wak or Ouak Ouak feem to baffle explanation, and Hartman confesses he can find no room for the latter. But with all its fable, it is still the kingdom of the Zinguis, (Hartm. p. 106.) and if fo, it must be Benomotapa, which lies inland, and which Al-Edriffi has ignorantly brought to the coaft. It is, in fhort, the termination of knowledge, which, with Arabians as well as Greeks, is always fabulous, and is by fome of their writers placed in the Marc tenebrofum, or Sea of China, (p. 107. Bakai another Arabian.)

That the Komr of Al-Edriffi, the Illand of the Moon, is Mada-gafear I have no doubt; because in the maps which detail the coast, I found the continuation of this island opposite to the continent through feveral chapters, in all which parcels, Dr. White assured me the name of Komr was regularly repeated; and though Hartman is by this made to doubt concerning Saranda, Serendib, or Ceylon, (p. 116. et seq.) there is no ground for hefitation, the error originates with Ptolemy, and the necessity of carrying round the lower part of Africa to the east, compels those who follow his hypothesis to throw

up Madagaſcar nearly oppoſite to Ceylon, to bring the Indus into the Gulph of Perlia, and the Ganges over the head of Ceylon. Whether all theſe inconfiſtencies would have appeared as gross in detail as in the general map, I cannot ſay; my want of Oriental learning, I regretted, did not permit me to examine the MS. myſelf, in a ſasisfafotry manner, and I had intruded too ſar on the affiitance of the profeſfor. To judge by Madagaſcar and the coaſt of Africa, I ſtill think the ſearch would repay any Orientaliſt who would purſuc it; and when Sir William Oufely has ſiniſhed Ebn Haukel, what better ſeene for the employment of his ſuperior talents than Al-Edriſſſ, whom we all quote ſrom an imperfect transſlation, and whom we ſhould know how to appreciate, if the droſs were once ſeparated ſrom his ore.

The course of the Nile is still more hyperbolical in this author than in Ptolemy whom he copies, but he has an inland Caspian as well as that author, and of a better form. To compensate this, however, he has his magnetick rocks which draw the iron out of vessels, an eastern fable as regularly at the limit of Oriental knowledge, as Anthropophagi fixed the boundary of the Greeks; while his termination of the coast of Africa at Daguta, wherever that may be fixed, proves that little more had been done by the Arabs of the twelfth century, towards prosceuting the discovery of the coast to the south, than by those whom the Greeks found there, or hy the Greeks themselves.

The Arabick names of this map, now fupplied by cyphers, have been translated by Captain Francklin of the Bengal Establishment, whole merit as an Oriental scholar is sufficiently established by his History of the Revolutions at Debli, and who has repaid the instruction of his youth, with the cordiality of a friend.

Numbers

# Numbers and Names of the Chart from the Arabick, by Captain Francklin.

No. 1. Mountains of the Moon, No. 23. Belad Mufrada. and fources of the Nile.

2. Berbara.

3. Al-Zung.

4. Sefala. 5. Al-Wak Wak.

6. Serendeeb (Ceylon).

7. Al-Comor (Madagafcar).

8. Al-Dafi.

o. Al-Yemen (Arabia Felix).

10. Tehama.

11. Al-Hejaz (Arabia Deferta).

12. Al-Shuiur.

13. Al-Imama.

14. Al-Habesh (Ethiopia).

15. Al-Nuba (Nubia).

16. Al-Tajdeen.

17. Al-Bejah.

18. Al-Sauced (Upper Egypt). 10. Afouahat.

20. Gowaz.

21. Kanum.

22. Belad Al-Lemlum.

24. Belad Nemanch.

25. Al-Mulita u Sinhajeh. 26. Curan (Karooan of

Gibbon). 27. Negroland.

28. Al-Sous Nera.

29. Al-Mughrub Al-Amkeen.

30. Afreekeea (Africa).

31. Al-Hurced.

32. Seharee, Bereneek (or Defart of Berenicè).

33. Miffur (Egypt).

34. Al-Shâm (Syria).

35. Al-Irak. 36. Fars (Perfia Proper).

37. Kirman (Carmania).

38. Alfazch. 30. Mughan.

40. Al-Sunda.

41. Al-Hind (India). 42. Al-Seen (China).

43. Khorafan.

44. Al-Beharus.

45. Azerbijan

No.	45.	Azerbijan (Media).
	46.	Khuwarizm.

47. Al-Shafh.

48. Khirkeez. 49. Al-Sefur.

50. Al-Tibut (Tibet).

cr. Al-Nufuz Izz.

52. Kurjcea (Georgia). 53. Keymâk.

54. Kulhæa.

55. Izzea.

56. Azkush. 57. Turkesh.

58. Iturâb.

50. Bulghar (Bulgaria).

60. Al Mutenah. 61. Yajooj (Gog).

62. Majooj (Magog).

63. Afiatic (Ruffia).

64. Bejeerut.

No. 65. Al-Alman.

66. Al-Khuzzus (Cafpian Sea).

67. Turkea (Turkey). 68. Albeian (Albania).

69. Makeduneeah (Mace-

donia'i.

70. Baltic Sea.

71. Jenubea (probably Sweden).

72. Germania (Germany).

73. Denmark. 74. Afranseeah (France).

75. Felowiah (Norway).

76. Burtea or Burtenea (Britain).

77. Corfica, Sardinia, &c. 78. Italy.

70. Ashkerineah (part of Spain).

#### DIRECTIONS TO THE BINDER.

I. The Portrait of Vafeo de Gama to front the title page.

This portrait is taken from the Portuguele manuferipe of Reflende, in the British Muérum, and by the account of Faria y Soufa, (vol. i. p. 281.) answers to the portrait of Gama, preferved in the Viceroy's palace of Goa, where the portraits of all the Viceroys feem to have been placed. Faria writes thus: "He died upon Christmas Eve, having been Viceroy three "months, was of a middle stature, somewhat gross, of a ruddy complexion. "He is painted with a black cap, cloak and breeches, edged with velvet, "all \$\beta\_0 \text{Alpha}\eta\_0\$, through which appears the crimon lining, the doublet of "crimon fattin, and over it his armour inlaid with gold." If this description be from the portrait at Goa, we have here probably a drawing from the picture, as it corresponds in every particular except the stasses in the cloak.

II. Chart of the Red Sea, to front Book II. p. 69.
III. Chart of the Coast of Africa, to front p. 111.

IV. A drawing of Adůli and the Chair of Ptolemy, &c. In the bottom of the plate is a general plan of the World; both from the MS. of Colines Indicopleutles, published by Monafaucon, (tom i. p. 188. Nova Collectio Patrum,) to front the differention on the Adultick marble: Appendix, p. 50.

V. A general map of the world, constructed for Pomponius Mela, to front the account of ancient maps in the Appendix, p. 80.

VI. A general map of the world from an Arabick MS. (in the Bodleian Library) of Al-Edriff, commonly called the Nubian Geographer; this map to front, p. 83. Appendix.

### ERRATA.

Page 3. line 2. for work read journal

10. note 7. for surges rend "Opego:

15. line ult. dele only

25. - 7. for Agatharcides read Agatharchides

32. note 61. for מבאים read ומבאים

47. note 84. for yeniquenes read yeniquenes

48. note 85. for "Ofacie read blans 58. note 108. for restants read restant is

69. Nº XII. after Acannai infert Ardmata

79. note 30. for Mudeiques read Mude agues

 line 4. for that is from Berenice read that is, lies 4000 stadia from Berenice penult. for Fibeth read Habeth

98, note 73. for Turanta read Taranta

28. note 74. after lifteen add days

125, line 14. for Tepara read To-pera 130. — 11. for 11° 30' d'Anville read 11° 45' d'Anville

135. - 15. for Morro Cabir read Morro Cobir

140. - 7. for Aden read Adea

175. - 2. for Necho read Neco 196. - 8. for 1525 read 1521

197, note 323, for paffare ne mari, de ponente read pullure ne mare de ponente

202. line 2. for map and chart read map or chart 223. - 2. after time infert it

10. for other tribe read other, a tribe

#### APPENDIX.

24. for Collus Corticolus bark, Collus read Collus Corticolus, bark Collus 31. line 5. for Calleau read Calleau

62. note 46. line 2. dele , that

At pp. 43. 47. 61. and 98. Hadramant is printed for Hadramaut.

P. 100. note 79. Yapparizes analizers degrie and ross purious public of ross Desires and Edders ought to have been printed at the end of the first book.

P. 74. note 11. the note ought to be erafed.

P. 126. note 147, the error improperly imputed to Mr. Gosselia is corrected p. 136. P. 28. note 51. add the Hyena is said to imitate the human voice, by Busbequies. Eng. ed. p. 79.

P. 86. note 48. un is printed for us, and u is in many MSS, the character of beta (as in Mr. Townley's MS, of Homers, &c. &c.) it was only to turn this u of the MSS, into a. Hence the fluctuation in Ptolemy of sand & which only talways to be us or a, which are both the fame, and answer to one twelfth, os five minutes the twelfth of fatty.

# APPENDIX.

# A CATALOGUE of the ARTICLES of COMMERCE

MENTIONED IN

THE DIGEST OF THE ROMAN LAW,

AND IN

THE PERIPLUS OF THE ERYTHREAN SEA.

FTER the former part of this Work was published, a recommendation occurred in the Indian Disquisitions of Dr. Robertfon (p. 58.), to compare the Roman law in the Digeft with the articles of commerce in the Periplûs. This task I undertook with great readiness, and had the satisfaction to find the concurrence so general, as to encourage me to pursue the comparison throughout. The conclusion derived from the performance of this talk was a conviction that the digest was the best commentary on the Periplûs, the most ample proof of its authenticity, and the most complete illustration of the Oriental Commerce of the ancients. This confideration led me to the defire of confolidating the two catalogues into one, in which I might concentre the proofs, and at the same time have an opportunity of correcting the errors I had been led into by my dependance on classical authorities, without a sufficient knowledge of Natural History. To this cause, I trust, will be imputed, the defects of the former catalogue; and, though the same cause may still operate, in a degree, I have now, however, been affifted in removing many misconceptions by the kindness of Dr. Falconer of Bath, and by that of his Son, who is a fellow-labourer with me in the illustration of ancient geography, and the translator of the Periplûs of Hanno. To both of them I was known only by my publications. and unfolicited by me, both proposed several corrections which I am happy to adopt. If the object of an author is the investigation of truth, he will receive all friendly corrections with gratitude, rather than defend his errors with pertinacity or ill-humour. I am fenfible alfo, that I flood in more need of advice than many others might have done, because I came to this office with less information in Natural History, than was requifite for the undertaking. This, perhaps, might have been a fulficient reason for declining it altogether; but I wished to clucidate the author that I had before me : and, I truft, that what I have done, will be acceptable to every reader who is not deeply verfed in Natural History himfelf.

Observations which are fill dubious will be marked Q.

N. B. When an article in the following catalogue is found both in the Digeft and the Periplia, it will be marked D. P.; and with one of those letters, when it occurs only in one of them.

When the observations are inserted which I received from Dr. Falconer or his Son, those of the Father will be marked F. F. and those of the Son F.

THE Refeript of the Roman Emperors relating to the articles imported into Egypt from the Eaft, is found in the Digeft of the Roman Law, book xxxix. title xvi. 5, 7, in the edition of Gothoffedvol. i. p. 570, (beft edition, vol. ii. p. 919) and cited by Salmafus Plin. Exercit. p. 1189. Paris edition, 1629. Ramufio, vol. i. p. 371. Purchas, vol. ii. p. 333, and by Bergeron, &c. &c.

Neither Ramufio or Purchas hav centered into any discussion of the articles specified, but enumerate them as they stand in the Refeript, which Gothofred shews to be abundantly incorrect. Salmafius has done much towards restoring the true reading, and much is still wanting.

The law itself, or rather the Rescript, is imputed by Ramusio to Marcus and Commodus, and, standing, as it does, between two other Rescripts, which bear their name, it is probable that this opinion is right.

The paffage which precedes the Refeript in the Digeft, is as follows:

"The Refeript of Marcus and Commodus ordains, that no blame 
"shall attach to the collectors of the customs, for not noticing the 
"amount of the customs to the merchant, while the goods are in 
"transit; but if the merchant wishes to enter them, the officer is

" not to lead him into error."

Upon this, it is only necessary to observe, that Commodus was affeciated with his father Marcus Aurelius Antoninus, in the empire, four years before his death; that is, from the year 176 to 186; This makes the Reserript more than a century later than the date I have assumed for the Periplus. Anno 63. See supra, p. 57.

#### APPENDIX.

#### GENERAL TITLE OF THE SECTION.

# Species pertinentes ad Vectigal,

Which may be rendered, "Particular articles [of Oriental Com"merce] fubject to duties [at Alexandria."] Or, if Species be
confined to a fense in which it was sometimes used, it fignifies

Spicer, gums, drugs, or aromatics. Salmasius shews that the same
term had been applied in Greek: Inferior Latinitas speciem simpliciter dixit, tt Graci, Σωρθων είλθε, Λεθωνών είλθε. P. 1050. And
Dr. Falconer observes from Du Cange: Aromata, vel res quævis
aromaticas. Gallis, Epicers.—Spices were mixed with wine. Solomon's Song, viii. 2.; and in the middle ages this mixture was called
Pigmentum, the Spicey Bowl; Porio ex melle et vino et diversis
speciebus confecta. Du Cange.—Species is likewise used for the ingredients of a compound medicine before they are mixed. F. F.

ARTICLES of COMMERCE mentioned in the DIGEST, and in the PERIPLUS of the ERYTHREAN SEA, affigued to ARRIAN.

## Α

'Αβόλλαι. Abollæ. P.

Ir this term be Greek, it is remarkable that it should not occur in any Greek Lexicou, and if it is Latin (as apparently it is), it is equally remarkable that a Greek merchant of Alexandria, such as

the author probably was, should have introduced a Latin "term into his Greek catalogue : but Latin terms crept into purer Greek writers than our author, and commerce perhaps had adopted this, as expreshing the actual garment which was neither used by, or formerly known to the Greeks. The Roman Abolla was a military 'cloke', perhaps not unlike our watch cloke. And the adoption of the word is not more flrange than the usage of the English in adopting the French Surtout, or the French adopting the English Redingote (Riding Coat).

## 2. Αβολοι νόθοι χρωμάτωσι.

Single cloths dved and imitating fome of a superior or different quality. But fee Salmaf, ad Vopifcum.

"AGohos, according to Salmasius (Plin. Exercit. 1062,) are fingle cloths, the same as andides, in opposition to bandides, or double; but whether this relates to the texture, to the ornaments wrought on them, or the confideration of their being with lining or without, feems difficult to determine. Our weavers call a filk, flot, when the warp is of one colour and the woof of another; and the word "ACohos may be literally rendered unfhot; but it does not follow that this is an accurate rendering of the term. Homer mentions garments both fingle and double; and Deborah makes the mother of Sifera fay, that

1 The word Abolla is not in Du Conge, Antony by Selênê the daughter of Cleopátra, was killed by Caligula, who was a great grandfon of Antony, non al'à de caufa quam quod edente le munus, ingressum spectacula convertiffe oculos hominum fulgore purpurex abilia animadvertit. Suct. Calig. c. 35. It was likeby officers and men of rank. Ptolemy, for of wife a garb of the philosophers, audi facinus

but it is in Meurius, who fays, that the following article" Assas ought to be read Acanas. The gender of the adjectives used with "ACohos is adverfe to this supposition.

<sup>.</sup> It feens worn as an outer military cloke Juba, king of Mauritania, grandfon of M. majoris Abolle. Juvenal.

her fon had perhaps brought home a raiment of needle work, of needle work on hold plats, which is apparently correspondent to the tunick, which Ulyffes describes to Penelopé (Od. lib. T. 230). If this interpretation, therefore, should be admissible, "λοδλο. χερμέτων may be rendered plain cloths of one colour, and νόθοι would express that they were of an interior quality. But see the term δακλοίματος, Diog. Lacritus in Diogene, p. 350. Horace. Duplic? μομπο patientia velat. And the address of Plato to Aritippus in Diog. Jaart. Aritipp, p. 67. Σδι μόνω δέδοται εξ. χλαμόδα φορίου εξ φάσος. "You are the "only Philosopher who can assume with equal propriety the dress of a gentleman (χλαμόδα), or the ordinary garb (ξάπος) of a "cynick."

### 3. 'Aδάμας. Diamond. D. P.

The ancients certainly apply this word to our modern gem the diamond, but ufe it in a larger fente as we fill use adamant, applied to other hard substances. But in the only passage where it occurs in the Peripisa, it is mentioned on a coast where diamonds very probably were to be purchased, and is joined with the Hyaciath or Ruby, and other transparent stones.

Theophraftus thought the diamond indeffunctible by fire, which is 'now found to be a millake, F. Many experiments have been tried on this fubject of late, and diamonds under the rays of a re-lecting mirror, have been reduced to charcoal!

#### A. Alubanda.

A precious stone between a ruby and an amethyst. Dutens, p. 16. But Hosiman renders it toys or trisses. See Cosmas, Ind. Mont-

<sup>&#</sup>x27; See Apollonius, Epif. iii. where han's is opposed to ville.

fauçon, Nov. Col. Patrum, p. 337. 'Η Ταπρόθανη ἄτα λουσόν εις την εργαλί ματέριον, ή Μαραλλά βάλλεσα μοχλίνε, έν Καθέρ βάλλεσα το Αλαθανθηνόν. Marallo feems to be Marawar, and Kaber the Kaweri, and if pearls are the attribute of Marallo, fome precious ftone should of course be the attribute of Kaber.

### 5. 'Αλόη. D. P.

There are two forts of Aloe, one a bitter cathartic, and another an aromatic, by fome supposed to be the sandal-wood. See Salm. Plin. Ex. 1056; but it is, to all appearance, the Agallochum of the Digest, mentioned still under the name of Agala, as an adoriferous wood by Captain Hamilton, at Muscat. Account of the E. Indies, vol. i. p. 68. It is probably used by the author of the Peripsis in the former sense, as being mentioned on the coast of Oman in Arabia, where the Succotrine Aloe is naturally imported, as the island Socotra itself was under the power of the Arabs on the main, being subject to Eleazus king of Sabbatha, in the neighbourhood of Oman.

It is remarkable, that when the author arrives at Socotra, he fays nothing of the Aloe, and mentions only Indian Cinnabar as a gum or refin diffilling from a tree. I was at a lofs to underfand what this meant, till I learned from Chambers's Dictionary that the confounding of Cinnabar with Dragon's Blood was a miffake of ancient date, and a great abfurdity. Dragon's Blood is ftill procurable at Socotra.

### 6. Amomum. D. See Kard-Amomum.

7. 'Audoidutes. Images. P.

These are mentioned as imported into Oman in Arabia; but whether as merely ornamental, or objects of superfittion, does not appear. Dr. Falconer had supposed that these might be images, brought from the East like our China sigures; but they are imports from Egypt into Arabia, and therefore probably Grecian workmanship. See Peripl. p. 16. F. F. & F.

 'Αργυρώματα, 'Αργυρᾶ σπέυη, 'Αργυρώματα τετορευμένα. Plate, Plate polified. P.

These works in filver do not appear to be the beautiful produce of Greek artifls, but veilels of plate adapted to the market. By the frequent mention of these articles, they must have formed a confiderable branch of commerce.

- 9. 'Agospundu. Arfenick. P.
- 'Αρώματα. Aromatics. P.

Drugs in general are comprehended under this term (Sal. Plin. Ex. p. 1049, 1050).

11. 'Ασύφη. A species of Cinnamon. See Κασσία. P.

#### $\mathbf{B}$

12. Βδίλλα. Bdellium, P.

An aromatic gum, supposed to be imported from Africa, but now seldom used \*. Salmasius \* describes it as a pellucid exudation from

1 Chambers in voce.

<sup>5</sup> Plin. Exercit. p. 1150.

the tree so called, not quite clear, of a waxy substance, and easily melted, called by the Portuguese anime; there are three forts, Arabian, Petrean, and Bactrian. It was imported, according to the Peripliu, from Bianagara, or Minnagara [Bekker], in Scindi; and from Barygaza [Baroach] in Guzerat.

The many Bhedolahh of feripture, Gen. ii. 12. Num. xi. 7. rendered bdellium, is by the Rabbis rendered chrystal, and has nothing in common with the bdellium of the Periplus but its transparency. The word bdellium seems a diminutive of the bdella used by our author. Pliny, b. xii. c. 9.

There are fill found three forts; two African, rather of dark brown hue; and one Afiatic, andwering the deferiptions of Salmafus, generally brought to England among parcels of myrrh. There are fpeceimens of the African fort in the collection of Dr. Burges.

Bdella are fupposed by Benjamin of Túdela to be pearls (p. 52. Bergeron); and oysters, either he or his translator calls reptiles: he finds them at Katiphan (el Katif). And Schikard interprets bedolach, pearls; but says they are not the bdellium of feripture. Pliny: translucidum, simile ceræ, odoratum, et cum fricatur, pingue, gustu amarum, citra acorem; aliqui Peraticum appellant ex Media advectum. Lib. xii. 9. or 19 Hardouin. Peraticum is the general term of the Periptus for any article brought from beyond the Straits of Bab-el-mandeb; or, according to Hardouin, ex ruy rusparum risc risc. In Pliny it is evidently a gum; the best fort from Bactria, and the inferior species from Arabia, India, Media, and Babylon. It is also a gum apparently in the Periplus. F.

12. Beryllus, D. Beryl, l'Aigne Marine, Aqua Merina.

Some have mistaken it for the cornelian, but the true beryll has the colours of sea water. Pliny, xxxvii. 20. Hard. Probatisimi sunt ex iis, qui viriditatem puri maris imitantur. It is a gem of great hardness, very brilliant, transparent, and of a green and blue colour delicately mixed, and varying according to the different proportions of either. Dutens.

Byffus, Opus Byfficum. D. Byffinon.—Cotton Goods.

I understand there is a work of Dr. Reinhold Forster, De Bysio Antiquorum.

### Г

15. Galbane, Galbanum. D.

A gum from a ferula or fennel growing in Africa. Salm. p. 353. It is an emollient, and ufed in plaifters; fuppofed to be derived from the Hebrew chelbena, fat. Exod. xxx. 34. Ecclef. xxiv. 21. Chambers in voce.—" Galen, Diofcorides, and Pliny, deferibe it " also as the produce of a ferulaceous plant. Bubon Galbanum " foliolis rhombis, dentatis, firiatis, glabris, umbellis paucis. Linn.

"Sp. Pl. p. 364. Little used as an internal medicine; but described

" also by Nicander in the Theriaca." F. F.

16. Γίζω. Ζίγω. Γίζ. A fectist of Cinnamon. P. See Κασσία. Ziger in Petfick fignifies fmall. The fmaller and finer rolls of casiia were most valued, Dioscorides says, the best fort was called Gizi, which is a corruption of Zigeir.

17. Δικρόσσια,

#### Λ

 Δικρόσσια, p. 8. Dicrossia. — Cloths either fringed or ftriped. P.

Κορσάι and προστάι, according to Salmafius; from Hefychius, fignifies the fleps of a ladder, or in adother leinle, the cornice of a wall, or the battlements. But he derives the fame word from πίρα, to fhave, and interprets κόρτοι, locks of hair. Hence cloths, δικρόστια, he flays, are those which have a fringe knotted or twifted.

Plin. Exercit. p. 762.
 See Lennep in voce.
 See Apollon. Lexicon in voce.
 18. Δηνέδριση.

 Δηνόριον. Denarius.—The Rome: coin, reorib in general denomination nearly 8d. English. P.

It appears by the Periplus, that this coin was carried into Abyffinia for the fake of commerce with firangers, and that both gold \* and filter Denarii were exchanged on the coalt of Malabar against the specie of the country with advantage to the merchant.

Δέακα, Κιττὰ, Δάκας. P.

Are joined in the Periplûs with Kaffia, and are fuppofed to be inferior species of the cinnamon. See Ramulio, in his discourse on the voyage of Nearchus, and Salmas de Homonymiis Hyles latrices, c. xcii. c. xciii. a work referred to by Salmasus himself, but I have not seen it.

20. Δέλπα, Ρ.

Slaves of a better fort and for the Egyptian market.

### Е

21. "Examp. Oil of Olives. P.

22. Έλέφας. Ινοτy. D. P. Ebur. D.

23. Evódia. Fragrant spices or gums. P.

## Z

Zũναι σκιωτάι. Р.

Girdles or purses wrought or embroidered. A great commerce throughout the east is still carried on in sashes, ornamented with

<sup>\*</sup> The gold Denarius, according to Arbuthnot, was the forty-fifth part of a pound of gold in the age of Nero.

every fort of device, and wrought up with great expence. Except does not occur in the lexicons, but probably means fbaded of different colours.

## 25. Ζίγγιζες. Ginger. D. P.

Not mentioned in the Periplûs, but by Salmaſius ", who ſays the ancients knew little of it, and believed it to be the root of the pepper plant. It is applied to a ſpecies of cinnamon by Dioſcorides (p. 42.), poſſibly to an ordinary fort from the coast of Zanguebar, and Zingiber itſelf may be derived from Zingi, the name of the African blacks on that coast.

### H

26. Ἡμίονοι νωτηγοί. Mules for the faddle. P.

#### G

 Θυμίαμα μαπρότε. Gums or Incenfe. D. P. Μαπρότε οccurs only in the Periplûs, p. 7. and without any thing to render it intelligible.

#### I

28. Ἰμάτια βαφεωρίκα ἀγγαφα τὰ ἐν Αιγόστιο γιοθμενα. Chithi. P. For the Barbarine' market, undressed and of Egyptian manufacture.—The Barbarines are the ancient Troglodyte shepherds of Upper Egypt, Nubia, and Ethiopia, very graphically traced and distinguished by Bruce.

<sup>&</sup>quot; Plin. Exercit. p. 1070.

<sup>&</sup>quot; The west coast of the Gulph of Ambia.

Ίμάτια βαρδαρίκα σύμμικτα γεγναμμένα. Cloths. P.

For the Barbarine market, dreffed, and dyed of various colours.

'Ίματισμός Λεαβικός χειριδωτός ότε ἀπλίες 3 ό κοινός 3 σκοτελάτος 3 διάχευσος. Cloths. P.

Made up, or coating for the Arabian market.

Χειριδωτός. P.

With fleeves reaching to the wrift.

2. Ο τε απλες κ, ο κοινός. Scc 'Αζολόι. Ρ.

Σκοτυλάτος. P.

Wrought with figures. From the Latin Scutum, Scutulatus; the figure being in the form of a shield. A dappled grey horse is thus called Scutulatus.

4. Διάχουσος. Shot with Gold. P.

5. Πολυτελής. Ρ.

Of great price.

6. Νόθος. P.

In imitation of a better commodity.

7. Περισσότερος. Ρ.

Of a better quality, or in great quantity.

8. Παυτοΐος. P. Of all forts. Πολύμιτα πολύμπα. P. Ezekiel, xxvii. 24. Ελεκτίσι απόστα στο Polymitorum. Vulgate, &c. Pallis Hyacinthinis, Chlamy-dibus coccineis. Chald. Parap.

Of thicker woof, or larger woof than warp. Q.

29. Isdaeon yezhan. P. Indico. Salmaf. & Hoffman in voce. See Pliny, xxxv. 27. Hard. cited by Hoffman, where it is manifefily indico, used both as a colour and a dye.

30. Inwo. Horfes.
As prefents, and as imports into Arabia.

### K

31. Kaynauos. Kankamus-Gum Lack. D. P.

According to Scaliger; and Dioscorides calls it a gum. But Salmafius rather inclines to think it a drug like myrth. Lack was uted as a purple or blue dye by the Indigo dyers. Lοδικοβαφω. Salmas. Plin. Exercit. 1148. 1152. Plin. xii. 20. See Pomet's Hiftory of Drugs, b. viii. p. 199, who fays gum of four colours was found in one lump. He does not hold it to be Gum Lack, but that it has a fimell like it; it is found in Africa, Brafil, and Saint Christopher's. Ponget's Specimen was from the West Indies.

# 32. Κάλτις. Kaltis-A Gold Coin. P.

According to the Periplûs it was a coin of this name current in Bengal, and that the metal was collected from a mine in the neighbourhood. Stuckius fays, a coin called Kalais is ftill current in 4 E E Bengal,

Bengal, on what authority does not appear. Paolino notices the word, but I cannot recal the paffage to my memory; it is called Kalteen in Bengal, or Kurdeen, in the Ayeen Aebari at prefent. Af. Ref. vol. v. p. 269.

# 33. Καρδάμωμον. Kardamom. D.

Both the Amomum and Cardamomum are mentioned in the Digeft, and are supposed by Dr. Burgess to be the same aromatic, and that amomum has the addition of kar, from its refembling an heart, which it does. The doubts of Natural Historians on this fubject are numerous, and Salmafius, after much learned difquifition, leaves the question undetermined. (See article Kostamomum.) But the opinion of my friend Dr. B. is this, that the kardamomum differs from the amomum chiefly as to its outward appearance in the shape of the pod or the vessels in which it is contained. The true amomum, he fays, is from Java, its pod is in the shape of a nasturtium, under which title it is described by Pliny, while the kaidamomum is in the form of an heart. It is brought from Sumatra. Ceylon, and Africa. The Sumatran approaches nearest that of Java, both in shape and slavour, but none of the forts are equal to the Javan; the flavour is aromatic, warm, and pungent, in which qualities it is refembled by all those species which take the addition of amomum, and I have been favoured with specimens of all the different forts by Dr. B. Theophrastus says both come from Media; others derive them from India. Martin Virg. eclog. iii. 89. Affyrium amomum, equivalent to Median. Galen fays it is confiderably warm: θερμής δυναμέως Ικανώς. Stephan. in vocc. The Καρδάμωμον ήδίου καὶ ἀζωματικώτερου, τῆς Θερμῆς δυναμέως ἀσθενεστέρας. Stephan.

in vocc. Warmth and pungency are therefore the qualities of both, and the difference in degree accords with the two frecimens of Dr. B. Whether the Greeks first found these in Media and Affyria, or whether there were aromatics in those countries resembling those of India, may still be doubted. The Greeks called cinnamon the produce of Arabia, till they had a knowledge of that country themselves.

Murray, vol. i. p. 65, doubts the origin of the name; for he fays, 
"The Indians call it cardamon, but thinks it very dubious, whether 
the cardomum of the ancients be the fame. The pericarpium of 
the leffer cardomum has obfeurely the fhape of a heart. Lewis 
fays it is deferibed in the Hortus Malabaricus under the title of 
Elettari." F. F. What is added muft compel me to retract my 
fuppofition, that amomum expreffes warmth and pungency. "Notarunt viri docti ἐρωρον λιδωνίστον, thus effe et fincerum et inculpatum, veterefque ἀμωρον νοcάffe omne aroma quod purum et non 
vitiatum effet. Bodæus a Stapel. Theophraft. p. 981. Stephan. 
in νοce, "Αμωρον." Ε. F. But in Stevens I find Λίδωσος ἀμωροίτες, 
and not ἀμωρον λιδωνίστον.

If the opinion of Dr. Burges be right, which seems highly probable, and this aromatic be found only in Java and Sumatra, or perhaps in Ceylon, it argues in favour of the Periplus, which is filent upon this subject; for the veracity of the merchant is as much concerned in not noticing what he had not, as in describing what he had seen.

34. Capilli Indici. D

35. Καξπάσος. Karpafus-Fine Muflins. D. P.

Opposed to ordinary contons. It is remarkable that the native Shanskreet term is Karpys, as appears by Sir William Jones's catalogue. Asiat. Ref. vol. iv. p. 231. Calcutta edition. But how this word found its way into Italy, and became the Latin Carbastus (sine linen) is surprizing, when it is not found in the Greek language. The Kaprásino Novo of Paulinias (in Atticis), of which the wick was formed for the lamp of Pallas, is Athestes, so called from Karpasos, a city of Crete. Salm. Pl. Exercit. p. 178.

Carbafo Îndi corpora usque ad pedes velant corumque rex aurea lectica margaritis circum pendentibus recumbit diffinclis auro et purpurà carbatis qua indutus cst. Q. Curtius, lib. viii. c. 9. F.—I owe this passage to Mr. Falconer, and think it may consirm the reading of Salmasius of Συδόνες μαργαφέτεδες, for Σωδόνες Εδαργάτεδες. Peripl. p. 34. So Lucan also, Pharf. iii. 230.

Fluxa coloratis aftringunt carbafa gemmis. F. Karpefium is a medicinal juice. Diofeor. A polifonous juice. Galen. It is a fubflitute for ciunamon, or a species of that spice. 'Arri Knowaudux Kagarfor.or. And dri Knowaudux Kagarfor.or. The different species are unknown. Salmas. p. 1306.—Has Kagarfor.or any reservance to the Kagon of Herodotus?

 Καρυσφυλλον. D. Garofalo, It. Girofle, Fr. Clou de Girofle, Fr.

Our English clove is probably from clou, a nail, which the clove resembles, but not without a possibility that it may be a contraction of girofie. The garyophyllon of Pliny is not the clove. F. F. The clove is a spice of the Moluccas, which is the reason that the Merchant of the Periplus did not fee it or record it; neither do I find it in the catalogue of Diofeorides (Matthioli) as an Oriental fipice. It should seem therefore from Pliny, the Periplus, and Diofeorides, that this spice was not known early to the ancients; and the reason was, because they did not go farther east than Ceylon. Salmasius, however, is of a different opinion, as I learn from Dr. Falconer, who cites his work, De Homonym. Hyles latric c. 95.—which I have not feen:

Vidit Plinius Caryophyllon quale apud nos frequens vifitur cuius in fummo clavi capite rotundum extat tuberculum piperis grano fimile, fed grandius et fragile, multis veluti fibris intus refertum. Calicem floris effe volunt adhuc conniventem, et nondum apertum. videtur existimasse Plinius esse fructum ipsum pediculo suo insidentem et inhærentem, nam clavus effe plane ligneus, et furculi inftar habere ei visus est. . . . . Caryophy am ad condimenta olim usurpatam ut piper et costum, &c...ostendunt apicii excerpta;..... quod dixit Plinius de odore Caryophyllorum fidem facit non alia fuisse ejus ætate cognita quam quæ hodie habentur, &c. Dr. F. is not convinced by Salmasius, and his doubt is well founded. F. F. Cosmas mentions the Ξυλοκαρυφυλλου at Ceylon, and Hossman (in voce) informs us, that the wood of the clove-tree is now used in odoriferous compositions and unguents. It is a circumstance in fayour of the veracity of the Periplûs, that the Merchant has not recorded this fpice; and of Cosmas, that his friend Sopatrus saw only the wood. An hundred years later than the Periplus, it had found a place in the Digeft: the cuftom-house at Alexandria received not the imports of one merchant only, but every thing that found its way by any conveyance from the East. It ought not to

be omitted, "that caryophyllon is poffibly not derived from the "Greek; for the Turks ufe the term Kalafur, and the Arabs, Ka"rumfel, for the clore." Nicuhoff. Leg. Batuv. vol. ii. p. 93. F. F.
Still it may be inquired, whether the Arabic karumfel may not be
forrowed from the Greek karuophyl: many Greek terms for plants,
drugs, &c., adopted by the Arabs, are noticed by Salmafius.

## 37. Karría. Kofm. D. P.

This fpice is mentioned frequently in the Periphis, and with various additions, intended to specify the different forts, properties, or appearances of the commodity. It is a species of cinnamon, and manifelly the same as what we call cinnamon at this day; but different from that of the Greeks and Romans, which was not a bark, nor rolled up into pipes like ours. Their's was the tender shoot of the same plant, and of much chigher value, fold at Rome in the proportion of a thousand denarii "to sifty; it was found only in the possession of Emperors and Kings; and by them it was distributed in presents to favourities, upon folum occasions, embassies, &c.

That it was the tender shoot, and not hollow, may be proved from Pliny, lib. xii. 19, where he informs us that Vespasian was the first that dedicated crowns of clunamon inclosed in gold sliagree (auro interralist) in the Capitol, and the Temple of Peace; and that Livia dedicated the root in the Palatine Temple of Augustus; after which he adds, that the casa is of a larger size shan the cinnamon (craffiore farmento), and has a thin rind rather than a bark, and its value confists in being bollowed out (eximaniri pretium eft). He adds, that the best fort has a short pipe of this rind or coating (brevi tunicarum

fallula et non fragili, lege et fragili); this Cafia is manifestly a Cinnamon, and by confulting the two chapters of Dioscorides on Cafia and Cinnamon, the best casia called Daphnitis, at Alexandria, is doubtless the same. Matthioli, p. 42; and again his cinnamon is. " fottile di rami," a very fine spray, with frequent knots, and smooth between the joints. Salmasius cites Galen, who compares the Karpalium τοις Κινναμώμε ακρίμοσι, to the extreme shoot or spray of cinnamon, and augémon is so peculiarly expressive of this, as to remove all doubt, (p. 1304, Plin. Ex.) but if our cinnamon is the ancient cafia, our cafia is again an inferior fort of cinnamon; both are known to our druggists and grocers; and fince the conquest of Ceylon, the duty is lowered on our cinnamon, and raifed on our cafia. The reason of which is plain; because the true and best cinnamon is wholly our own by the possession of Ceylon, and casia is procurable from Sumatra, and feveral of the eastern illes. (See Marldon's Sumatra, p. 125.) It is plain, therefore, that we adopt cinnamon for the casia of the ancients, and casia for an inferior cinnamon. Whether the cinnamon and casia of the ancients were both from the fame plant, may be doubted; for there are different species even of the best forts, as we learn from Thunberg; but that both had the fame virtue, though not equal in degree, we are affured by Galen, who informs us, that two parts of casia are equal to one of cinnamon. (Matthioli, p. 46.) And Galen examined both when he composed the Theriac for the emperor Severus.

I am confirmed in the opinion I had formed by Dr. Falconer, who (after citing Linnæus, Combes, Philof. Tranfact. 1780, p. 873.; Doffie's Memoirs of Agriculture, p. 202.; Solander; Thunberg, Vet. Acad. Hanbl. 1780, p. 56.; and Murray, Apparat. Med. vol. iv. pp. 441, 442. edit. Gotting. 1787) writes thus: "I myfelf

" compared two bundles, one of cafia and another of cinnamon, " and in presence of all the physicians and surgeons of the Ge-" neral Hospital at this place [Bath], and none of us could find any " difference in the fize of the pieces, in the take, flavour, colour, " or finell of the different articles, either in quality or degree." These are the two species as now distinguished; that is, the cinnamon of Ceylon, and the casia (say) of Sumatra. He then adds: " Perhaps it may be true that the fmall branches were called cinna-"mon [by the ancients], but the difference between that and cafia " was finall. Galenus palam prodit (inquit Matthiolus in Diofeo-" ridem) caffiam fæpenumero in cinnamomum tranfmutari, fate-" turque fe vidiffe caffiæ ranulos omni ex parte cinnamomum refe-" rentes, contra pariter infoexisse cinnamomi surculos cassia prorsus " perfimiles. Matthiol. Diofcor. p. 34. he fays, the fticks of cin-" namon are not in length above half a Roman foot; and Diofco-" rides, in Matthioli's translation, uses the words tenuibus ramu-" lis." F. F. See also Larcher, Herod. tom. iii. p. 375. who supposes that the excess of price in the spray, was occasioned by its caufing the destruction of the plant when so cut.

This fort we must first consider, because they themselves applied the name improperly, having it derived, by their own account, from the Phênicians', and giving it to the same production, though in a different form and appearance from that by which it is known to us.

The kinnamomum of the Greeks and Romans was necessiarily derived from the Phênician ", because the merchants of that country first brought it into Greece. The Greeks themselves had no direct

Herodotus, lib. iii. p. 252s. ed. West. hy Larcher, of turning the Phenicians into a See a curious mistake of Pliny's noticed phoenix. Tom. iii. p. 349.

communication with the east; and whether this spice was brought into Persia" by means of the northern caravans, or by sea into Arabia, the intermediate carriers between either country and Greece were of course Phênicians. It will therefore be no dissicult matter to prove that the Phênician term expresses the cinnamon we have, and not that indicated by the Greeks and Romans. The term in all these languages fignifies a pipe; for the Hebrew rup kheneh is the Latin canna; and fyrinx, fiftula, cannella, and cannelle, convey the same idea in Greek, Latin, Italian, and French. The Hebrew term occurs in Exodus, xxx. 23, 24, joined with cafia, as it is almost universally in the writings of the Greeks and Romans. It is ftyled Sweet Cinnamon, and is written קומן בשם ", khinemon befem, the fweet or fweet-fcented pipe; and the word rendered Cafia by our translators" is Top khiddah, from khadh, to fplit or divide longways. These two terms mark the principal distinctions of this spice in all these languages; as khinemon besem, Hebrew; cafia fyrinx, Greck; cafia fiftula", Latin; cannelle, French; and

<sup>&</sup>quot; By Perfia is meant the whole empire. 16 The whole 30th chapter is worth confulling on this curious fubject, as it proves that many of the Oriental spices and odours were, even in that early age, familiar in Egypt.

<sup>77</sup> If from this chapter of Exodus we prove that cinnamon was known to the Hebrews in the age of Moles, we have a fecond proof of its being used in the embalmment of the mummics from Diodorus, lib. i. 91. tom. i. p. 102. Larcher, tom. ii. p. 334-

totally diffinct : it is a fpeties of fenna which comes from the Levant, Egypt, Brafil, and Bodaus, must preponderate, the Antilles, and is a corruption from Acacia.

Salm. Plin. Ex. p. 540. Certe cafia nomen pro ea specie que solvit alvum ex Acacia factum quamvis diverfum fit genus. Id. p. 1056. This corruption is not of very modern date: for Salmatius adds, Ut mirum fit ante hos trecentos et amplius annos, cafiam filtulam Latinis dictam, eam que purgandi vim habet.

See also Ramusio, vol. i. p. 282. Mr. Falconer doubts concerning the cafia fiftula, but acknowledges that Bodaeus on Theophraftus, p. 293. is of a contrary opi-

<sup>&</sup>quot; The casis fishula of the moderns is a drug nion. F. I cannot help thinking that the authorities here produced, in conformity to

in the same manner the inferior fort is khiddah, Hebrew; xylo-rasia ", Greek; casia lignea, Latin.

Whether the Greeks and Latins derive their term from the Hebrew khine-mon ", or from the compound kheneb-amonum, is not fo eafy to determine; for amonum is a general term " for any warm drug or fpice, and kin-amonum, in this form, would be again the fpice-canna, the cafia fiftula under another defeription. But that the cafia fitula and the taffal lignea are marked as the two leading diffind species, from the time of Moses to the present hour, is self-evident. And I now say, that if the Romans applied the term Cinnamon to the tender shoot off this plant, and not to the pipe cinnamon, such as we now have it from Ceylon, their use of the word was improper. That this was the case, there is reason to think; but that there was some obscurity or sluctuation in their usage, is certain also.

Salmasius" quotes Galen to prove that the plant itself was brought to the emperor Marcus Aurelius, from Barbarike", in a case seven

This species is diffinelly marked in the Roman Law de publicanis, Ieg. xvi. D. Casiafyrinx, Xylo-cala. Salin. 10.55; id. id. cantricis Salomonis, Nardus, Crocus, Fillula cinnamount. It is called Excaprepa, Hard Casia, in the Periplus.

<sup>&</sup>quot;1232 is from 1332, a reed, canas, and the transmission doubtful, but proisably from 142 properties. It is in this festic that 1325, manns, figuifies the food from Herewitz the gradient food or bread. And hence 1327129, the peculiar canas, by way of pre-entience. Pathunt derives in notion 1327, canas, but from 1329, shaam, to finell strong, but he allows there is no fact by this Helieux.

I cannot help thinking that D@J Jip, khenneh befem, and D@J Jipj, khimemon befem, have the fame root. The fower khimemon. Notwithflunding kho-heh befem is rendered calami odoriferi, the fower calamits, it is certainly not technically the calamits amonateus.

<sup>38</sup> Salm 401. 39 Plin. Ex. p. 1304. Galen de Antidotis, lib. i.

<sup>&</sup>lt;sup>33</sup> Barbarikè is perhaps not a proper name, but the port frequented by the Barbars of Adel or Mofyllon. It is the mart in Scindi; but whether Patala or Minnagare, is difficult to determine.

feet long. Galen faw this, and there were other cases of a smaller fize, containing specimens of an inferior fort. This, therefore, must be in a dry flate: but this he fave was the true cinnamon. Undoubtedly it was, for the plant itself, and the spice, as we have it, in its usual form, have this difference and no more. But Galen fays, in another passage 24, that casia and cinnamon are so much alike that it is not an eafy matter to diffinguish one from the other. And Dioscorides writes, " Casia grows in Arabia; the best fort is " red, of a fine colour, almost approaching to coral, strait, long, " and pipy, it bites upon the palate with a flight fenfation of heat, " and the best fort is that called Zigir, with a scent like a rose." This is manifestly the cinnamon we have at this day; but he adds, " cinnamon has many names, from the different places where it [is " procured or ] grows. But the best fort is that which is like the " cafia of Mofyllon, and this cinnamon is called Mofyllitic, as well " as the casia." This therefore is only a different fort of the same fpice, but it does not grow either in Arabia or at Mofvillon, it took. its name from either country, as procured in the marts of either. This traffic is explained in the Periplûs, but Diofcorides was unacquainted with it. The description " he gives of this cinnamon is, "That when fresh, and in its greatest perfection, it is of a dark " colour, fomething between the colour of wine and [dark] ash, " like a fmall twig or ipray full of knots, and very odoriferous." This is manifestly not our cinnamon, but the same as Galen's, the tender shoot and not the bark. It is worth remarking that Dioscorides lived in the reign of Nero20, and if the true fource of cinna-

<sup>&</sup>lt;sup>24</sup> See Ramuño, vol. i. p. 282. The whole p. 3.18. He is equally indebted to Salmañus of this is from Ramuño.
28 See Ramuño, vol. i. p. 282. The whole p. 3.18. He is equally indebted to Salmañus as myfelf.

<sup>&</sup>quot; See Larcher's whole Differtation, tom. iii. " Hoffman in voce.

mon was then just beginning to be known by means of the navigation detailed in the Periphis, this knowledge had not yet reached Afa "Minor or Rome. Pliny who lived a few years later had just arrived at this information, for he fays expressly, Molyllon was the port to which cinnamon was brought a, and confequently the port where it was procured by the Greeks from Egypt, and through Egypt conveyed to Rome. It had long been procured there, and long obtained the name of Molyllitic, but it was now known not to be native, but imported at that place.

The trade to Mofyllon was opened by the Ptolemies; ftill, before the existence of a Grecian power in Egypt, the Greeks had probably little knowledge of it, but from the importation of it by the Phouicians; and the Phênicians received it, either by land-carriage from the Idumeans of Arabia, or when they navigated the Red Sea themfelves with the fleets of Solomon, they obtained it immediately from Sabêa; perhaps also, if Ophir is Sofala on the coast of Africa, they found it either at that port, or at the others, which the Greeks afterwards frequented. Thefe lay chiefly in Barbaria, (the kingdom of Adel,) comprehending the ports of Mofyllon, Malao, and Mundus, where it was possibly always to be met with. This commerce indeed is at best only conjectural, neither could it be of long duration, as it ended with the reign of Solomon, and was never refumed; but that the Phônicians had a fettled intercourse with Sabèa we learn incontrovertibly from Ezekiel \*\*, and that Sabêa was the centre of Oriental commerce, is proved in our account of the Periplûs.

<sup>&</sup>quot;Dissecorides was a native of Anazarba; "Portus Mofyllites of but whether he wrote there or at Rome, I wilder. Lib. vi. c. 29. have not been able to discover. "Cap. xxvii. v. 22.

Portús Mofyllites que cinnamomum decelitur. Idh. vi. c. 29.
Cap. xxvii, v. 23. Sheba is Sabéa.

It is this circumstance that induced all the early writers to impute the produce of India to the foil of Arabia; an error which commenced with the first historians extant, and which existed in history till the age of Pliny, and in poetry almost to the present hour. Fable is the legitimate progeny of ignorance; we are not to wonder, therefore, when we read in Herodotus 10, that casia grew in Arabia, but that cianamon was brought thither by birds from the country where Bacchus was born, that is India. The term used by Herodotus indicates the cinnamon we now have; for it fignifies the peel, hull, or rind of a plant, and evidently points out the bark, under which form we still receive this spice. The error of Herodotus is repeated by Theophrastus, who assigns both casia and cinnamon to. Arabia 22: this intelligence I receive from Bochart; and I am obligedto him also for a very curious citation from Uranius, in Stephanus de Urbibus, who fave, the country of the Abasenes produces myrrh, aromatic gums or odours, frankincense, and the bark for cinnamon | 33. This passage is valuable as the first instance extant in which the name of Abyffinians is mentioned. But it is not to be depended on, unless it can be referred to the conquests of that nation in Arabia, for these Abaseni are evidently joined with the Arabians of SabAa and Hadramaut.

But whatever errors are to be found in ancient authors, relative to the production of fpices in general, and cinnamon in particular,

<sup>&</sup>lt;sup>30</sup> J.ib. iii. p. 252. ed. Weff. and p. 250. where he mentions a fimilar fable of ferpents which goard the frankincenfe.

J καρφιώ, from Κάρφω, arefacio, to dry; and hence the dry hull, peel, or shell of a plant or fruit.

Jones, Al. Rel. iv. 110. 113.

<sup>(</sup>ii) xal dupiapas and KEPHASON. Pochart, vol. i. p. 106. Kignation is probably the Kagdess of Herodotus, unless it is a falle reading for Kagnation or Kagnaros, one of the terms for

<sup>22</sup> Bochart, vol. i. p. 105. Sir William cotton.

fill that they found their way into Egypt, Paleftine, Greece, and all the couptries bordering on the Mediterranean, in the earliefl ages, is a fact. This admits of proof from the thirtieth chapter of Exodus, and we have traced the course of their introduction in the preliminary disquisitions of the first book.

We may now, therefore, proceed to examine the various forts of this fpice mentioned in the Periplus, which amount to ten; and very remarkable it is, that the modern enumeration of professor Thunberg should comprehend just as many species. Not that it is to be supposed the species correspond, but the coincidence of number is extraordisary. It is worthy of notice also, that chnamon is a term never used in the Periplus; the merchant dealt only in casa; cinnamon was a gift for princes. There is, even in this minute circumstance, a presumption in favour of his veracity, not to be passed without observation.

It has been already mentioned in the account of Ceylon, that the ancients, who firt referred this fpice to Arabia, and afterwards to the cinnamomifera regio in Africa, as fuppofing it to grow in those countries because they procured it there, never mention it in Ceylon. I think, with Sir William Jones, that this is one of the obscurest circumstances in ancient commerce. Can we conceive that it grew there in any age, and was afterwards cradicated? or must we not rather conclude, in conformity to the suffrages of all the moderns, that there is no genuine cinnamon but that of Ceylon, and that the commerce itself was a mystery? The first author that mentions cinnamon in Ceylon is the Scholiast on Dionysius Periegetes; at least I have met with no other, and I mention it to promote the inquiry.

### The ten forts in the Periplûs are,

### 1. Μοσυλλιτική. Mofyllitick. P.

So called from the port Mofyllon, where it was obtained by the Greeks from Egypt, and whither they always reforted, from their first passing the Straits of Bab-el-Mandeb. It was the casia fistula : the same as we now have from Ceylon, and imported at Mosvillon directly from India, or from the Arabian marts on the ocean, which were rivals of the Sabeans. It is mentioned by feveral authors as the best fort, or inferior only to zigeir, and therefore could not be native: there is indeed cinnamon on the coast of Africa, but it is hard, woody 14, and of little flavour. The regio cinnamomifera of Ptolemy bears no other fort but this: he places this tract at the boundary of his knowledge, that is, between Melinda and Mosambique; and if it is in any way entitled to the name, it cannot be from its own produce, but on account of the importation of the fpice from India: the traders who found it there, might suppose it native, in the fame manner as the early writers speak of the Mosyllitic, and which (as has been already noticed) Pliny first mentions as imported. The Mofyllitic species is rarely called cinnamon by the ancients, but casia only. Their cinnamon was exhibited as a rarity, like that of Marcus Aurelius before mentioned. Autiochus Epiphanes" carried a few boxes of it in a triumphal procession: and Seleucus Callinicus presented two minæ of this species, and two of · cafia, as the gift of a king to the Milefians. The cafia, or modern

<sup>\*\*</sup> Seven different forts Oriental, and two flavour. It sufwers well to the character of American, I have feen in the collection of \*\*sogneya.\*

Dr. Burgels; and an African Species, which is not a bank, but a more flick, with little is not a bank, but a more flick, with little

cinnamon was found formerly in Java. Sumatra, and the cooft of Malabar: from the coast of Malabar it found its way to Africa and Arabia; but when the Dutch were mafters of Cochin ", they deflroved all the plants on the coall, in order to fecure the monopoly to Ceylon; and none is now met with on the coaft, but an interior wild fort, used by the natives, and brought fornetimes to Europe for the purpose of adulteration.

### 2. Pileo, Ziyen, Pil. Cizeir, Zigeir, Cizi. P.

This fort is noticed and described by Dioscorides, as already mentioned; and to his defeription I can only add, that zircir, in Perfian and Arabic, as I am informed, fignifies finall ". The finaller back must of course be from the finaller and tenderer shoots, which is fill effeemed the best; the harder and thicker bark is cut and made to roll up in imitation of this, but is inferior, though from the fame plant. This at least is supposed; but I do not speak from authority.

## 3. 'Aσύφη. Afubbè. P. Afyphemo in Matthioli, p. 42. Perhans for 'Acutanace.

This term, if not Oriental, is from the Greek elouterator, alumbeles, fignifying cheap or ordinary; but we do not find a fuplic used in this manner by other authors: it may be an Alexandrian corruption of the language, or it may be the abbreviation of a merchant in his invoice.

<sup>&</sup>quot; The Dutch are occused of this by their any where but in Ceylon, rivals, as well as diminishing the growth of nutmegs, &c. in the Moldeca Islands. But I observe in the account of Hugh Boyd's Embaffy to Ceylon (Ind. Annual Register, 1796), an affertion, that the true emnamon never grew

<sup>&</sup>quot; I doubt this relation at the fame time I notice it : but an isquiry night fill be made. whether the Greek term cofia be not a corruption of gini.

### 4. "Apupa. Aroma. D. P.

Aroma is the general name for any warm spice or drug; but it is twice inferted in a lift of casas, and is therefore probably a species as well as the others. It would intimate an aromatic smell or slavour, and is possibly one of superior quality. It is remarkable that Moses uses the same term of sweet-scented cunamon.

Μώγλα. Mögla. P.
 A fpecies unknown.

6. Μοτώ. Motő. P.

A species unknown.

Σκληφοτερά. Sclerotera. D. P. Xylo Caffia, Wood Cinnamon. D.
 From the Greek Σκληφός, hard. This is a term which occurs

frequently, and perhaps diffinguifhes the cafia lignea (wood cinnamon) from the cafia fiftula (cannelle or pipe cinnamon): it may, however, fignify only a hard and inferior fort, in opposition to brittleness, which is one of the characters of the superior species.

8, 9, 10. Δέακα, Κιττὰ, Δάκας. Dosaka, Kitta, Dacar. P. Dacar is noticed by Diofcorides, Matthioli, p. 42. and Moto by Galen. F.

All unknown. But Salmafius, and other commentators, agree in supposing them all to be species of the same spice.

Under Cassia, in the Digest, are mentioned,

- 1. Turiana vel Thymiama, and
- Xylo Caffia.

Turians and Thymiama are expressions for the same thing in-Latin and Greek-Incenfe. Kafia was mixed perhaps with incenfe in the temples, as well as other aromatic gums and odours. See Hoffman in Thymiama. But Dr. Falconer supposes these not to be different frecies of calia, or mixtures with it, but fimply thus and thymiama: which, however, xylo caffia feeins to contradict. He thinks alfo, " that turiana may be the laurus cassia which grows in " Spain, on the river Turia or Guadalaviar."

" Floribus et rofeis formofus Turia ripis."

Claudian de Laudibus Serenze, 72.

These are the ten forts enumerated in the Periplus 35. Professor Thunberg, who vifited Ceylon in his voyage from Batavia, reckons ten forts likewife. Four of nearly equal value and excellence; three that are found only in the interior above the Ghauts 30, in the government of the king of Candi; and three which are not worth gathering. The most remarkable which he mentions are ;

The raffe 40 or penni-curundu, honey cinnamon, and capuru curundu, or camphor cinnamon, from the root of which camphor is distilled: this last is found only in the interior. The cinnamon for the European market was collected in the woods by the natives employed in the Dutch fervice, but has fince been planted on the fandy downs on the coaft. These plantations, besides their convenience, are fo thriving, that the practice is likely to be continued. Can I conclude this account without observing, that this rich and

Galen; Arebo, and Daphnite. Larcher, Herod. vol. iii. p. 345.

<sup>&</sup>quot; I use the term improperly, but Ceylon English have, only the coalt. partakes of the nature of the continent-the

<sup>&</sup>quot; Two other forts may be collected from coast is a level, the interior is high and table land. All above the mountains is still possessed by the king of Candi ; the Dutch had, and

<sup>&</sup>quot; See Knox's History of Ceylon, p. 16. valuable

valuable island is now in the possession of the English; and without a prayer, that the commerce may be conducted on more liberal principles, and the nativos treated more generously by them than by their predecessor? The knowledge which the ancients had of this island is treated at large in the Sequel to the Periplus; and it is to be hoped that the present governor, Frederick North, whose mind is stored with ancient knowledge, and whose attention is alive to modern information, will communicate his researches to the public.

I have only to add, that the Sanskreet names of this spice are Savernaca and Ourana, as I learn from the Asiatick Researches, vol. iv. p. 235.; and that Salmasius mentions Salihaca as the Arabic appellation, which he derives from the Greek Fudent, lignea, or woody (p. 1306.), but which, if I did not pay great respect to his authority, I should rather derive from Salike, the Greek name of the island in the age of Ptolemy.—I have now only to request that this detail, too prolix for the work, may be accepted by the reader, not as the natural, but the classical history of cinnamon.

# 38. Kasoíregos. Tin. P.

Tin is mentioned as an import into Africa, Arabia, Scindi, and the Coaft of Malabar. It has continued an article of commerce brought out of Britain in all ages, conveyed to all the countries on the Mediterranean, by the Phênicims, Greeks, and Romans, and carried into the Eaftern Ocean, from the origin of the sommerce. It is only within these few years it has sound its way juro China in British vessels, where it is now become an article of such magnitude, as greatly to diminish the quantity of specie necessary for that market.

 Каттоварог, Патропатора, Кабалота. Kattyburine, Patropapige, Kabalite. Peripl. p. 28.

Different species of nard. See Nagles. P.

40. Καυνώναι απλοϊ ε πελλε. Kaunakai. P.

Coverlids plain, of no great vilone (or, according to another reading, not many), with the nap on one fide. Hefychius and Phavorinus, cited by Hudfon.

41. Geraunium. D. A gem.

Salmalius fays there are two forts:

A pure chryflal.

Another red, like a carbuncle.

He thinks the chryffal to be the true ceraunium; and that Glaudian is miflaken when he writes,

Pyreneifque fub antris Ignea fulmineæ legere Ceraunia nymphæ.

42. ΚολανδιόΦωστα. Kolandipbonta. P.

Large flups on the coaft of Coromandel, in which the natives traded to Bengal and Malacca. They had veffels also called Iangara, made of one piece of timber, which they used in their commerce on the coast of Malabar. The monoxyla of Pliny were employed in bringing the pepper down the rivers to the coast. Lib. vi. 23.

43. Kogáhiov. Coral. P.

44. Коттос . Coftus, Coftum. D. P.

Is confidered as a spice and aromatic by Pliny, lib. xii. c. 12.

" It is worthy of remark, that in the enumenation of gifts made by Seleucus Callinicus to Frankineenfe - 10 talents.

It is called radix, the root, pre-eminently, as nard is flyled the leaf. Costus being, as we may suppose, the best of aromatic, roots, as nard or spikenard was the best of aromatic plants. This supposition explains a much-diffuted paffage of Pliny. Radix et folium " Indis eft maximo pretio: the (root) costus, and the (leaf) spikenard, are of the highest value in India. Radix costi gustu fervens, odore eximio, frutice alias inutili: the root of the coftus is hot to the tafte, and of confummate fragrance; but the plant itself, in other respects, without use or value. It is found at the head of the Pattalêne. where the Indus first divides to inclose the Delta; of two forts. black and white, the black is the inferior fort, and the white beft. Its value is fixteen denarii 43, about twelve shillings and eight pence a pound .- Thus having discussed the costus or root, he proceeds to the leaf or plant: De folio nardi plura dici par eft; but of this hereafter. It is here only mentioned to give the true meaning of the paffage.

This root is faid, by Salmafius, to grow in Arabia as well as India; and I do not find that it has acquired any European name, though it was formerly much ufed in medicine, and called the Arabian, or true coftus. It is confounded by Gothofred, first with costamonum, which he derives from Mount Amanus, and secondly, with carda-

Myrrii I talent.
Csin 2 pounds.
Cinnamon 2 pounds.
Collus 1 pound.

The reason is evident; frankinscuse and myrch were procurable in Arabia, which bordered on his own kingdom. Cofia, cinnamon, and coffus, were East India commodities. See Chifaul, Antiq. Asiat. p. 71.

" But the baf is applied pre-entinently to the hetel in India to this day. See Herbelot in spece. Son nom le plus commun est Betré ou Betlé, dont le premier se pronouce aussi barra, qui signise chez les Indiens, en geoeral la feuille de quelque plante, et qui s'applique par excellence à la seuille de Témbul, en par-

Pliny has applied the leaf par excellence to the nard, and then confounded feveral properties of the betel with it. See Négêos.

49 The numbers in Pliny are dubious.

momum. (See Salm. p. 400. & feqq.) I have supposed that amomum, as it is found in cinn-amomum, carda-momum, and coftamomum, implies the warmth and gentle pungency of an aromatic; for the amounum itself, if we know what it is, is of a hot, spice. pungent tafte. (Chambers's Dict. in voce.) But Salmafius and Hoffman from to trace it to a Greek origin (aμαμός, inculpatus), and to fignify unadulterated. They apply it likewise to momia or mumia, because the amomum was particularly used to preserve the body from putrefaction. It was found in India and Syria, but the best in Arabia (imported?). The Arabian is white, fweet, light of weight, and fragrant; the Syrian is heavier, pale, and flrong fcented. Gothofred, from Ifid. xvii. 9. Diofcorid. lib. i. c. 14. Plin. i. 2. and xii. 24. Diofeorides favs it grows in Armenia, Media, and Pontus, c. 14. : but the whole account is very dubious; all fpeak of its warmth and pungency; but let us apply this to the coftus, which, in regard to its unadulterated flate, and its qualities, is flill much queflioned: its properties are-" I. Fragrance: Odorum caufa unguentorumque " et deliciarum, fi placet etiam fuperstitionis gratia emuntur quo-" niam thure supplicamus et costo. Plin. xxii. 24. Costum molle " date et blandi mihi thuris odores. Ure puer costum Affyrium " redolentibus aris. Propert. lib. iv. Πλεισην εχών καὶ ηδειαν οσμην-" Diof .-- II. Pungency; both coftus and coftamonum are faid to " be of a warm, pungent quality : IIA 15 75 de THS depuesas non Depuns " μετεχει ποιοτητος και δυναμεως. Galen. Gustu fervens, Pliny .- It is " mentioned in the Geoponica, as one of the ingredients for making " the spiced wine, called mananesa. Lib. vii. c. 13. But the best " writers on the costus of the ancients think it is not ascertained." F. F. Pieudocostus nascitur in Gargano Apuliæ monte.-Of the coffus brought from the East Indies there are two forts, but feldom,

more

more than one is found in the fhops, coftus dulcis officinarum: this root is the fize of a finger, confifts of a yellowith woody part inclosed within a whitish bark.... the cortical part is brittle, warm, 
bitterish, and aromatic, of an agreeable smell, resembling violets or 
Florentine orris. New Dispensatory.—It always contracts a bitterness, and grows black by keeping, which probably accounts for the 
white being more valuable (as Pliny fays), because it is fresh. M. 
Gcoffroi, a French academician, mentioned under this article in 
Chambers's Dictionary, confiders it as the European elacampane 
root, which, he afferts, when well fed and prepared, has the preperties of the Indian aromatic.

Costus corticosus, bark costus, has a scent of cinnamon.

# 45. Κυπερος. P. Cyperus.

An aromatic rufh. (Plin. xxi. 18. Matthioli in Diofcor. p. 26.) It is of use in medicine. The best from the Oass of Ammon, the second from Rhodes, the third from Thrace, and the fourth from Egypt. It is a different plant from the Cypirus, which comes from India. See Hossman. Chambers.

#### Λ

# 46. Λάδανον \*\*. D. P.

A gum or refin, from a plant called leda, lada, or ledum, a species of ciftus. It is of a black colour, from Arabia; the East India sort is very heavy, and like a grit-stone in appearance. Dr. Burgess

<sup>&</sup>quot; Herod. lib. iii. p. 253. where he fays, grant, odorific gam. See Larcher, Herod. it is collected from guste' heards, a most fra- tom. iii. p. 350.

informs me that it is adulterated with pitch from Pegu. It is collected in Orete from the beards of goats. Plin. xxvi. S. And Tournefort faw it obtained from the thongs of whips latthed over the plants in the fame illand. It is likewise obtained by a bow-firing bound with wood, to which the lanugo adheres. F.

### 47. Aannos yeuparvos. Larens. Coloured Lack. D. P.

Is a gum adhering to the fmall branches of trees, supposed to be deposited by an insect. When taken off and melted it is reddish, formed into granulated feed, in which form it is used as lack for japanning; or into field-lack for fealing wax. Pomet, b. viii, p. 200.

A dye of the red purple (according to Ramufio, pref. to the Periplûs, lacco de tingere); but Salmafius, Plin. Exercit. p. 1160, fays it is a cloth of this colour.

48. Lofer. Bensoin. D.

"This appears to be the filphium found in Syria, Armenia, and
Africa Diofeor. iii. 79. Lafer eft liquor feu lacryma, Grecis
"λεστρος, Latinis lafer nominatur. Matthioli, Diof. in voce. That
is the infiffiated juice. The flalk was called filphium; the root,
magugdaris; the leaves, mafpeton. Theophraft. vi. 3. The Σωκαν κανλος ½ στος are mentioned by Hippocrates even as articles
of food, and faid to be taken largely by fome, but with caution,
because it was apt to remain long in the body of those unaccustomed to it. Theophrastus mentions the stalk as food; Aplicius
flates it among the condiments of the table: Porcus lastratus,
heedus lasfratus. Perfumes were formerly used in England with
meat; the nobility were made sick with the perfumed viands of
Cardinal Wolfey." F.F.—The country most famous for producing

it was Cyrénè in Africa, where it was fo much a flaple commodity, that the Cyrenian coins were marked with the filphium. It is now brought from Siam and Sunsatra; is used in medicine and cofmetics. See Chambers in voce, and Gothofred, who cites Columella, vi. 17. Ifid. xvii. 9. It is vulgarly called Gum Benjamin. Pliny mentions it inter eximia naturæ dona, xxii. 23.

49. Λέντια. Linen, from the Latin linica. See Ιματιτμός. P.

50. AlCanos. Frankincenfe 45. D. P.

 Λίβανος ὁ περατικός. From beyond the Straits of Bab-el. Mand-eb. P.

A gum or refin fufficiently common in Europe still; originally introduced from Arabia only, and used by the nations on the Mediterranean under the denomination of thus and libanus which are fynonymous. Its name is derived from [2], laban, white, Heb. and [2], loban, Arabic, because the purest fort is white "without mixture. See Bochart, tom. i. p. 106. Hence libanus and the corrupt olibanum. M. Polo calls it encent blanc. Bergeron's Col. p. 153. It was chiesly brought from Hadramaut or Sagar, a tract of Arabia on the ocean. The best fort is likewise in small round grains called zóndese, from the Arabia "20.2, chonder. Bochart, libid. But Nichulur says, that the libanus of Arabia at present is greatly inferior to that brought from India, as being soul, mixed with sand and stones; he adds also, that the plant which produces it, though cultivated at Keschin and Schahr (Sagar) is not native, but originally from Abyssinia. See Nichultr. Arabia, tom. i. p. 202. ii.

<sup>\*\*</sup> Olibanus, oleum Libani. - gefs has many specimens of Arabian di-\*\* It grows yellow by keeping. Dr. Bur-banus.

p. 131, in which opinion he is furported by Bruce. The Arabians paid a thoufand talents of frankincentle by way of tribute to Perfia. Plin. xii. 17. Herodot. When Niebuhr was in Arabia, the English traders called the Arabian fort incense of frankincense, and the Indian or better fort, benzoin, and the worst benzoin was esteemed more than the best incense. The Araba themselves preferred the Indian to their own, and called it bachor Java, either because it grew in that island, or was imported from Batavia. See also d'Anville, Georg. Anc. tom. ii. p. 223.

- Λιθίως 'Υαλῆς πλείονα γένη ιζ άλλης Μυξφινής τῆς γενομένης ἐν Διοσπόλει. Glafs and Porcelane made at Diofpolis. P.
  - Lithia Hyala. Several forts of glass, paste, or chrystal. Sec article Λυθία διαφανή:.
  - 2d. A.9ia Muggion. P.

Which Salmafius fays, ought always to be written morrina, not myrrhina, myrrina, murrhina, or murrina. And he maintains that it is certainly the Oriental porcelane. It is here evidently joined as the adjective to Λωθία, as it is afterwards (p. 28. Peripl.) mentioned with Λωθία δυχύρι, and connected in a fimiliar mainter, Λωθία δυχύρι ης Μακείρι, where it is friectified as brought down from the capital of Guzerat, Ozênê, (Ougein,) to the port of Barygáza or Baroach. All this feems to confirm the opinion that it was porcelane procurable in India at that time, as it now is; and that it was brought into Egypt by the fhips that went to India. But what is more extraordinary is, that it was imitated in the manufactories of Diofpolis in Egypt, juft as our European porcelane is now formed upon the pattern of the Chinefe.

But in opposition to this opinion, Mr. Dutens, under the article Sardonyx, Supposes that stone employed and out, to form the Murrhina, on account of its beauty, and the great number of strata in a fmall compass, that the Sardonyx was formed into fmall vases, as well as various forts of agates, there can be little doubt; but why after cutting, it should lose the name of fardonyx, and take that of murrhina, is ftill to be explained; and how they should be baked in Parthian furnaces, or imitated at Diospolis, must likewise be inquired. The best argument in favour of Mr. Dutens' opinion, is, the connceing it with oruging in the invoice of the Periplus, Adia oruging nai Megin, and Lampridius likewife fays of Heliogabalus, as cited by Gefner, myrrhinis et onychinis minxit. These instances are so firong, that if the other qualities attributed to this precious commodity could be accounted for, and rendered confiftent, the fuffrage of a writer fo intelligent and well informed, ought to prevail. Gefner produces a variety of authorities from Jo. Frid. Christius, which confirm this opinion of Mr. Dutens, or at least prove it a fosfil. The principal one is from Pliny, xxxvii. 2, and xxxiii. proem. Chryftallina et myrrhina ex eadem terra fodimus, fo that it is politively afferted to be a foshil from Karmania; while the colours assigned to it, of purple, blue and white, with the variegated reflexion from the mixture, fuit much better with porcelane. Martial ftyles it myrrhina picta, xiii. p. 110, and notices it as capable of containing hot liquors, a property in which it feems opposed to glass or chrystal.

### Si calidum potes ardenti murra Falerno Convenit, et melior fit sapor inde mero.

The fapor here, and the odor mentioned by others, fuit the fardonyx no better than porcelane; but the testimony of Propertius is as direct to prove it factitious, as that of Pliny to prove it a fosfil.

Murraque in Parthis pocula cocta focis, iv. 5. 26.

And to refift this evidence, Chriftius contends, that the Murrea are not the fame as Nyrrhina; but an initation like the Diofpolite manufactory. I am by no means qualified to decide in this dispute, where the difficulties on either fide feem unfurmountable; but as my own opinion inclines rather in favour of porcelane, I will flate my reason plainly, and leave the determination to those who are better informed.

Porcelane, though it is facilitious, and not a fofil, is compofed of two materials which are foffil, the petuntze and the clay. The former, the Chinefe call the bones, and the latter the fleth. The place of petuntze is fupplied, in our European imitations, by flints reduced to an impalpable powder; and the vitirfaction of the petuntze or the flints in the furnace, gives to porcelane that degree of transfucency it possess. The petuntze is suppossed to be found of late in England. Now it is a well known fact, that the ancient composition of porcelane in China, was faid to be prepared for the son by the father, and to lie buried for feveral years before it was prepared for the surnace, and the inferiority of the modern porcelane, is thought, by the Chinefe connosificurs, to arise from the neglect of this practice. May not this have given rife to the opinion that the murrhina were a folish production?

Another confideration arises from the words employed by Pliny to express the murrhine veffels, which are copis and abacus, fignifying, if Hardouin be correct, literally, the cup and faucer, and the capis which was a veffel used in facrifices, was regularly a vas ficile.

But the last circumstance I shall mention is, the fize of that murrhine veffel mentioned by Pliny, which contained three pints (fextarios). Can it be inpposed that a fardonyx was ever seen of this fize? he adds indeed afterwards, amplitudine nufquam parvos excedunt abacos, which, to make it confiftent, must be qualified with the exception of the former veffel that contained three pints. He has other particulars which lead us again to porcelane, craffitudine raro quanta dictum est vasi potorio, and in another passage, humorem putant fub terra calore denfari, which he certainly applies to the concodion of a foffil, but which bears no little refemblance to the maturing of the materials before mentioned.

After all, if it was a gem, it is aftonishing that the fardonyx should be mentioned by no ancient author, as appropriated to this purpofe-If it was factitious, it is equally strange, that nothing stronger should appear on that fide of the question, than the capis of Pliny. The diffinction could not have been miftaken. The country be affigure to the production, is Karmania, in the kingdom of Parthia, and that it came from Parthia " into Egypt, to the countries on the Mediterranean, and to Rome, fecms evident from a variety of authorities; and that it might well do, if we confider that Parthia communicated with India by means of the Perfian Gulph, and possibly on the north with China 45 itself, by means of the caravans. The mention of Karmania by Pliny, as the country where the murrhina were obtained, favours the supposition of procuring these vessels from India :

may fee from a former citation noticing Kar- Ruffians and Chincle at Kiatcha, is evident mania.

tains, and that exchange of commodities took. material in the prefent inflance-

<sup>&</sup>quot; The kingdom, not the province, as we place at fome frontier, like that between the from Ptolemy, Pliny, and the Periplus. Whe-

That there was an intercourse with the ther the Seres were Chinese, or an interme-Seres on the north of the Himmalu moun- diate tribe between India and China, is not-

for the communication of Karmania with Schuli and Guzerat is almost immediate, and certainly prior to the navigation from Egypt to that coast. But in Guzerat they were obtained, when the author of the Periplès was employed in that trade; and their arrival at the market of Baroach, from the interior of India, may induce us to suppose, that they came into Judia from the north.

The immenfe value of these vessels at Rome might well arise from their learnity. They were first seen there in the trumphal procedition of Pompey; and it must be observed that Pompey returned from the shores of the Caspian Sea. They were afterwards introduced into use at the tables of the great, but of a small fine and capacity, as cups for drinking. Afterwards one which held three fextarii or pints, was fold for seventy talents "; and at length Nero gave three " hundred for a single vessel. The extravagance of the purchaser might, in this instance, enhance the price, but the value of the article may be better estimated by the opinion of Augustus, who, upon the conquest of Egypt, selected out of all the spoils of Alexandria a single murrhine cup for his own use. Now, therefore, if the murrhine was porcelane, it may be a piece of information acceptable to our fair countrywomen, to know that Cleopatra did not indeed sin her tea, but drink her Marcotick wine out of china.

I have not been able to confult the work of Chriftius, but take the account of his argument from Gefuer, and I refer the reader for further information to Gefuer in voce, to Chambers's Dictionary, to Salmafus, Plin. Exercit. and to an express differtation in the Volumes of the Academy of Belles Lettres, which I have formerly feen, but have not now an opportunity of confulting. I recollect that

<sup>&</sup>quot; £.13.562.

The funs feem as immoderate for a cup of fardonyx as for porcelane.

it is in favour of the opinion, that murrina and porcelane are the fame.

#### 53. Λιθία διαΦανής. Ρ.

A transparent substance of stone or pebble, but it is probably here . the glass made of stone as clear and bright as chrystal, and the same as Yaki, Hyale mentioned before. Salmafius (p. 1096.) has a very curious quotation from the Scholiatt on Ariftophanes ad Nubes. Act ii, scene 1. "We call Hyalos (he says) a material made of a cer-" tain plant burnt, and wasted by fire so as to enter into the compo-" fition of ceitain [glafs] veffels. But the ancients appropriated the " term hyalos to a transparent stone called kruon, or chrystal."-This perfectly accords with the manufacture of glass, composed of fand, or flints, and the afhes of a plant called kali or vitraria in Narhonne. Salm, ibid, and Chambers in voce. But glass has its name from glaftum" or woad, the blue dye, because common glass was of that colour, but the transparent stoney glass [flint glass] here mentioned feems to take its name [διαφανής] transparent, and [Υαλή] chrystalline, from its superior purity and imitation of the chrystal. The whole paffage in the Scholiaft is interesting, and worth confulting. Nub. act ii, fcene 1. l. 766. Τὴν "Υαλον λέγγεις.

"The hyalos or chryfial is formed circular and thick for this purpofe [the purpofe of a burning glafs], which being rubbed with
oil and warmed, they bring near the wick of a lamp and light
it: " fit was rubbed with oil probably to clean it, but why warmed

<sup>&</sup>lt;sup>10</sup> See Voffus ad Melem, Varior. ed. 1722, thus adds, apad Cambro-Britanaos ifaitids prowho cites Pliay, lib. xxii. e. 1. Simile planatagin glafum in Gallia, quo. Britanaorum. Herba ifaitis is woad. conjuges uurufque toto corpore obline. Vof.

does not appear.] " Homer knew nothing of the chryflal, but mentions amber:" [true, for with Homer κρύστολλος is alwaysice]

Hence it appears that chryflal was known to Aritlephanes, and the application of it to the purpoles of a burning glafs; that glafs was known in the time of the Scholiaft, and that Homer knew nothing of either. The use of a pebble or chryflal, however, to kindle fire, is known at least as early as the writings of Orpheus πιερὶ λίθων. And if the writings attributed to Orpheus be really the work of Pythagoras, or a Pythagorean, as Cicero supposes, De Nat. Deorum, the knowledge of this property is still very old. But Tyrwhitt has overfet all the antiquity of this Orpheus, and brings the poem Περὶ λίθων down to the lower empire—to Constantius, or even lower. See Prast, p. 10. et seq.

Why glafs was fo late before it was introduced to the knowledge of the Greeks and Romans, or other nations on the Mediterranean, feems extraordinary; but De Neri (Art. de la Verrerie, Paris, 1752) informs us, that glafs is not mentioned in the Old Testament, and appears in the New only, in the episites of St. Paul, St. James, and the Revelations; that of the Greeks, Aristotle is the first who makes express mention of it, and affigns the reason why it is transparent, and why it will not bend, but in a dubious passage; in Rome it was but little known before the year 536, U. C. and was not applied to the rufe of windows till near the reign of Nero. Seneca, Ep. xc. This seems the more extraordinary as the art of making glafs was known in Egypt in the earliest times. The mummics of the Catacombs near Memphis are ornamented with glafs beads; and it has lately been discovered that the mummics of the Theiana are decorated with the same material; which carries the invention much higher, possibly

to 1600 years before our era (Ripaud's Memoir). If this be a fact, we arrive at the Diospolis of Upper Egypt, the Thebes of Homer for the origin of the invention, but the Diospolis of the Periplûs is in the Lower Egypt on the Lake Menfaleh, though the name and fite is much disputed, as we learn from d'Anville, (Egype, p. 92,) but at Tennis on that Lake, the French found remains of brick, porcelane, pottery, and glass of all colours, (Memoirs, p. 223,) and at the Lower Diospolis, we find the same substances noticed by the Periplus with the addition of wine, dipfe, and an imitation of the murrhine veffels. Strabo informs us, that he converfed with the manufacturers of glass at Alexandria, who told him that there was a hyalite earth; which of necessity entered into their compositions of a superior fort, and particularly in the coloured glass, but that still greater improvements had been made at Rome, both in regard to colours and facility of operation (lib. xvi. p. 758.). The fame manufacture was continued afterwards at Tyre and Berýtus; and at Tyre it was found by Benjamin of Tudela, as late as the year 1173. (Bergeron, p. 17.) At Rome it was certainly known before the fecond Punick war, because Seneca mentions rusticitatis damnant Scipionem quod non in Caldarium fuum specularibus diem admiferit, but this was in the Bath or Sudatory; in houses it was introduced later, vitro absconditur Camera, Ep. 86, et quædam demum nostra memoria prodisse scimus ut speculariorum usum perlu-. cente testa clarum transmittentium lumen; but testa does not quite express glass. Martial mentions glass applied to the hot-house or green house, lib. 8; and drinking glasses he calls chrystalla (lib. x. 50, Ed. Fitzger.). Pliny also writes, maximus tamen honos est in candido translucentibus, quam proximâ chrystalli similitudine, usus vero ad potandum argenti metalla et auri pepulit. Lib. xxxvi. 26. From

From which we learn, that the Romans uted drinking glatfes as we do, in preference to gold or filter, and that the material was not vitrum, but the white flint glats like chryslal, as ours is. Gibbon has observed, that Augustus knew nor the comfort of clean linen or glass windows, but glats windows were within a century after his time adopted in Rome. In England we are indebted to Theodorus, archibishop of Canterbury, who introduced glafs windows, music, geometry, and classical learning into England about the year 670. Beda, Ec. Hilt, lib, iv. c. 2.

That clear or flint glafs alfumed its name from "Take, chryftal, isfill more apparent from a paffage of Diodor. Sic. lib. ii. p. 128. cd. Weffel, where mention is made of both forts, the facilitious and native "Take, as he writes it. The glafs coffin of Alexander is called "Takin, by Strabo, lib. xvii. p. 794. See Herod. iii. p. 206. et Weffel not. et Diod. ii. p. 15.

## 54. Λίθος καλλεανός. καλλαϊνός. P. Callain Stone.

The Lapis Callais or Callainus of Pliny is a gem of a pale greencolour found in Caucafus, Tartary, and the best fort in Karmania; it is called an emerald by Ramusio, and it was possibly one of those substances which Dutens, says the ancients, mistook for the emerald, and which he calls Peridor, Spath, Pluor, and prime d'Emeraude; the distinctions of which are attended to by few, except jewellers or collectors; others think Callais and Callainus two distinct stones; the Peridot is a pale green, inclining to yellow. Id.

Salmafius writes it Callinus, and fays it may be a pebble or agate, inclosed in another 50, and that it is loofe and rattles; this Pliny calls

<sup>&</sup>quot;But he mentions it as a topaz, and fays, blue, why not a turquotic? which is fill a there are topazes of two different colours; if favourite flone in the Eafl.

Cytis, xxxvii. 56. Hard. Cytis circa Copton nascitur candida, et videtur intus habere petram quæ sentiatur etiam strepitu.

### 55. 'Λίθος όψιωνός. P. Opfian Stone.

Probably ferpentine or hæmatite, in the opinion of Dr. Bürgefa. Salmafius objects to Pliny for calling it opfidian, or faying it was dif-covered by Opfidius. In Greek it is always opfian, and is a green stone very dark, approaching to black. It was found in the islands of Ethiopia; and from taking a high polifi was used by the emperor Domitian to face a portice, fo that from the restlection he might discover if any one was approaching from behind.

The opfidian stone, mentioned by Pliny, is very dark but transfucent, and a factitious fort of it which he likewise notices, seems very much to resemble the material of which our brown or red tea-pots are composed. Totum rubens, atque non transfucens, hæmatinonappellatum. See discourse in the Memoirs of the Academy of Sciences. The specimens of this stone, which I have seen, are so dark that the green east can only be discovered by holding them in a particular position. The closeness of their texture seems to admit of any degree of polish that the artist may be disposed to give thems.

The specimen which I saw was brought from Egypt by a Gentleman who had visited the country: it was esteemed such in Egypt, and acknowledged for opsian by feveral of the most curious observers at Rome; and it exactly answers the description of Isidorus, adduced by Hardouin on this passage: est autem niger, interdum et virens, aliquando et translucidus, crassifiore visit. And again: obsdisus lapisniger est, translucidus et vitri habens similitudinem. Isidor. lib. 16. Orig. cap. 15. and cap. 4. That opsian and obssidian have been confounsed. founded, or applied to different fubflances, may be allowed; but the opfidian of Pliny came from Æthiopia, and fo did the opfian of the Periplûs; and whatever be the name, the fame follil feems to be intended. How it may be applied by others, concerns not the prefent question; and if the etymology be Greek (from onropes or όψις), it might be applied to any polifhed flone which reflects images. It is used by Orpheus under opallius, lin. 4. in what sense I pretend not to determine; but his claffing it under the opal, which is clouded, and specifying its pitchy colour (κ) πίτυος δάκρυσι λιθέμειου όψιανοῖο) and ftone-like appearance, petrified, as he supposed, from the exudation of the pine, makes me suppose it the same as Pliny describes, when he mentions the imitations of it and the stone itself: In genere vitri et obfidiana numerantur, ad fimilitudinem lapidis quem in Æthiopia Obfidius invenit, nigerrimi coloris, aliquando et translucidi erassiore visu, atque in speculis parietum pro imagine umbras reddente. M. Dutens (p. 66.) fays, it is a volcanic glafs. fuch as is found about Mount Etna and Mount Vefuvius; but instead of folving the difficulty, about which, he fays, fo many learned men have disputed in vain, this only adds to it; for if it was found in Italy and Sicily, why thould it be fought for in Ethiopia, almost at the mouth of the Red Sea, and imported from Egypt at a prodigious expence?

56. Abydos. Lygdus. P.

A beautiful white marble, or rather alabafter, used to hold odours; Ramusio. Salmasius says, an imitation of this alabafter " was formed of Parian marble, but that the best and original lygdus was

Unguenta optime fervantur in alabaftais. Plin, lib, xiii. p. 3.

brought from Arabia, that is, as noticed in the Periplus, from Moofa. Salm. p. 559.

57. Auniov. Lycium. P.

A thorny plant, fo called from being found in Lycia principally. A juice from which was used for dying yellow, mentioned by Pliny and Dioscorides. The women also, who affected golden locks, used it to tinge their hair. Salm. p. 1164. Why this should be fought in Scindi, if it was found in Lycia, does not appear. It is found now in the shops by the name of the yellow-berry, box thorn, grana d'Avignon. Dr. Burges. Lycium, in Pliny, is a medicine derived from the Caryophyllon, lib. xii. c. 15. Hardouin, who adds Lycium porro quid sit ignorari etiam a peritis herbariis pronunciat anguillara, lib. de Simplic, pars iii. p. 62: Nos Clusio credimus esse fle Haschic Goanorum.

58. Audines. Lodices. P. Quilts or coverlids.

ε πολλαι απλοι κ) έντόπιοι.

Coverlids plain and of the country manufacture at Moofa-

## M

59. Маруаріта, р. 84. D. Р.

Pearls, fifted for near Cape Comorin, where the fiftery fill continues, or at the Lackdive Islands, formed a great article of commerce on the coaft of Malabar.

60. Μαλά ζαθζον.

60. Μαλάβαθρου. Malábathrum. D.P. Betel.

In order to avoid the confusion of ancient authors, we must confider this article under two heads:

First, as an Unguent, Odour, or Persume; Secondly, as the Betel.

First, as an unguent or persume, it is certainly assumed by Horace:

Malobathro Syrio capillos. Har. lib. ii. ode vii. 8, 9.

and by Pliny "when he makes it, with all the fragrant odours of the Eaft, enter into the royal unquent of the kings of Perfia. (Lib. xiii. c. 2.) And again (lib. xii. c. 12, or 26 Hardotin.), where he mentions the nard of Caul, Crete, and Syria; the laft agreeing with the Syrian odour of Horace, and almost afcertaining the error of confounding fpikenard with the betel. So likewife (lib. xii. c. 59) Hard. Date tinalobathron Syria ex qua exprimitur oleum ad unquenta; but in the fame chapter he fays, fapor ejus nardo fimilis effe debet fub lingua; and (lib. xxiii. c. 48. Hard.) oris et halitus fuovitatem commendat lingua fubbitum folium: in which fenfe, as Diofeorides alfo tessifies, it is a masticatory, and not an unguent. Added to this, he applies the titular distinction of hadrofphærum, mesofiphærum, and microfphærum, to the spikenard (lib. xii. 26. Hard.), which Salmasius, Matthioli, and almost all the

<sup>&</sup>quot;It is agreen by Fliny, Ills. still. c. s. that fpilecound, the first of solome, which is preationed all the forgerns release of the Eaf rec. neiceocopy called failum, or be leaf, in opposition, the contract of their magnetics, fifther to colors, or the cost. But the best-down to the result of the contract of the transparents of the colors are constanted, and among "given rife to the noi-10-". See Pliny, Ills. still. then the mid-abilityme, which is not for proearly an odour as a fluoristic, if it be the run, mice-phi-renn—all distinctions of the
best-Dark in frequently confounded with the Testa, are fieldly opplied to the pilespecial contraction.

commentators, agree in affigning specifically to the betel; and to the betel, betre, or petros, they are applied in the Peripius. (p. penult.) The error of Pliny, and his fluctuation in making it both an unguent and a masticatory, arises from his considering the spikenard to be the leaf, nar egoxy (which it is not, but a root), and not confidering, or not knowing, that the betel is, above all others, the leaf, used with the areka-nut, and the constant masticatory of the Orientals from Malabar to Japan.

Secondly, that it is a mafticatory is confirmed by Dioscorides; for he fays (ὑποτίθεται δὲ τῆ γλώσση πρὸς ἐυμδίαν σόματος), it is placed under the tongue to fweeten the breath, and it has (δύναμιν τίνα ευς ομαγωτέρα») the virtue of strengthening the stomach. If any native of the East were at this day asked the properties of betel, no doubt he would specify these two particulars above all others. But it should feem that Dioscorides was aware of the confusion caused by mistaking the nard for the betel; for he commences his account by faving, that fome believe the malabathrum to be the leaf of the nard, deceived by the fimilarity of the odour; but the fact is far otherwife. (See Matthioli, p. 40.)

The author of the Periplûs knew that Petros was the leaf, and that when the whole composition was made up together, it was called Malabathrum; for he mentions the method of obtaining it by the Sêres from the Sêfatæ, and their exportation of it again. (p. ult.) We know likewise that the procuring it at the extremity of the East. is confonant to modern observation; for though it is used in India, it is indifpenfable in all ceremonies in Ava, Pegu, China, and the islands of Java, Sumatra, &cc. It is now well known to consist of the arcka-nut, the betel-leaf, and a mixture of lime from fea-shells, and AΚ

and fometines with the addition of odoriferous drugs. The arckanut has the appearance of an oblate nutmer, hard as horn, and when cut, refembling the nutmeg in its mottled appearance. Dr. Burgels informs me, that the unripe nutmeg is fornetimes preffed, and an aromatic liquid procured, fragrant in the higheft degree, which perhaps may have fome relation to the perfumed ungent of the ancients. The betel is a fipecies of the pepper-plant, and the lime is called chinam, the ufe of which turns the teeth black; and black teeth confequently, from the univerfality of the practice, are the flandard of elegance in all those countries where the usage prevails. For the natural history of the ingredients, and the ceremonies attending the custom, I refer to Sir G. Staunton's Chinese Embusliy, vol. i. 272.; Mr. Mariden's Sumatra, p. 242.; and Mr. Turner's Embusliy to Thibet, pp. 285. 343.

The name of this mathicatory varies in different countries, but its Arabick name is Tembul, Tembul, or Tambal; and from tamala, added to bettê or bathra, tamala-bathra is derived, and the malá-bathra of the ancients, according to the opinion of Salmafius.—
"But Stephens (in voce) gives a different etymology: Ferunt apud "Indos nafci in ea regione quæ Malabar dicitur, vernaculà ipforum "Ingua Bathrum, five, Bethrum appellari, inde Græcos compofita "voce nominatle Makaladenen". F. F. What adds to the probability of this is, that the coaft was called Malé, till the Arabs added the final fyllable. And let it not be thought fantafical, if we carry our conjectures farther eaft—to the country of the Malays, in the Golden Cherfonefe; for in that part of the world the cultom is far more prevalent, and there the beft ingredients are fill procured. The Malays were not unknown, by report at leaft, to the Greeks; for

Ptolemy has a Malai-oo-Colon (Μελαίε κόλον άκερο, p. 176°, not far from the Straits of Malacca, the country of the Malays.

From the practice of the natives, another circumflance occurs worthy of remark; for it is faid, "Sinze in mutuis vilitationibus "folia betel manu tenent, ac cum Areka et calce in patinis ligneis "in benevolentize fignum offerunt hospiti; dum utuntur, primo "parum Arekze mandunt, mox folium betel calci illitum, exemptis "prim nervis ungue politicis, quem propterea longum atque acutum "habent." Nieuhoff, para ult. Legat. Barav. p. 99. F. F.—I owe this curious paflage to the fuggettion of Dr. Falconer, and I cannot help thinking that it corresponds with the expression in the Periplis, iEmdararts, rahdyses, riek hospesses [sirges; ex arundinibus illis quas petros appellant nervis shirique extractis; though applied to the making up of the composition, rather than the use of it.

The account of the ingredients must be left for the natural historians to develope; but the classical history of them, such as I have been able with the affishance of my friends to collect, has been drawn from Dioscorides, Pliny, Matthioli, Salmasius, and the other authorities cited, with much labour and attention; and if it contributes to remove the obscurity in which the question was involved, let it not be received as a tedious discussion, but as the effort of an author, who was engaged in the inquiry, before he was aware that an acquaintance with natural history would become so material a part of his duty.

## 62. Maneig. Macer. P.

An aromatic from India; the bark red, the root large. The bark used as a medicine in dysenteries. Plin. xii. 8. Salm. 1302.

## 63. Margarit.e. D. P. Pearls.

The Pearl Fithery is mentioned in the Periplus, both at Bahrein in the Culph of Periia, and at the Island of Ceylon; but I am obliged to Mr. Falconer for pointing out "the authority of Pliny, " lib. ix. 25, or 54 Hard, and lib. vi. 22, or 24 Hard, ; the former " of which is of importance, as marking out not only the fiftery " at Ceylon, but at Perimoola, and the Sinus Perimcolus." F. For the Perimoöla of Ptolemy is not far from the Straits of Malacca, and approaches (though not nearly) to the Sooloo Fifhery of Mr. Dalrymple. Whether pearls are fill taken in the Gulph of Siam or Cambodia, I am not informed, but they might well be brought thither from Borneo; and the information is highly interesting. In the fame paffage it is noticed by Pliny: Principium ergo, culmenque omnium rerum pretii, Margaritæ tenent. But it is not true that the pearl fold higher at Rome than the diamond; for, lib. xxxvii, c. 4, the diamond has the highest value; the pearl, the fecond; and the emerald, the third.

#### 64. Marucorum Lana. D. Wool of Marucori.

The text is corrupt. Ramulio joins it with the following article, Fueus, which he reads Maracorum Succus; but what it means is notablility, fuppofes it to be the wool of the Thibet fheep, of which shawls are made.

# 65. Μάχαιραι. P. Knives or canjars worn at the girdle.

#### 66. ΜελιέΦθα χαλκά. Ρ.

Brafs" or copper, prepared, as Ramufio fays, for veffels of cookery. But rather for ornaments of women, as bracelets, anklets, and collars. No ufage of Μελάρθα occurs ellewhere; but metals were prepared with feveral materials to give them colour, or make them tractable or malleable. Thus χαλίωρα in Hefychius was brafs prepared with ox's gall to give it the colour of gold, and ufed like out tinfel ornaments or foil for flage dreffes and decorations. Thus common brafs was neither ductile nor malleable, but the Cyprian brafs was both. And thus, perhaps, brafs, μαλάρθα, was formed with fome preparation of honey. Pliny ufes coronarium poffibly in reference to the fame application of it as Hefychius mentions, and feems to ufe Cyprium in the fense of copper. Cyprium regulare is the best copper, and every metal is called regulare when purified, omne, purgatis diligentius igni vittis, exoodifique, regulare est. And again Cyprium teausifimum quod coronarium vocant, xxxiii. 9.

67. Μέλι καλάμινον το λεγόμινον σάκχαρι. D. P. Honey from canes. Sugar.

In Arabic, shuker, which the Greeks seem first to have met with on the coast of Arabia, and thence to have adopted the Arabic name. It is here mentioned on the coast of Africa, where the Arabians likewise traded, and either imported it themselves from India, or found it imported; it was evidently not found in that age growing in Africa. The Sanskreet name of fugar is ich-shu-casa, and from the two middle fyllables the Arabic shuka, or shuker. Af. Research iv. 231. See Du Cange, article Cannamele, Canna Mellis, mentioned

by Abbertus Aquenfis, William of Tyre, and others, as introduced from the Eaft into Cyprus, Sicily, &c. in their age.

The lotus or nymphra of Egypt. The flalk contains a fweet and eatable fubfiance, confidered as a luxury by the Egyptians, and ufed as bread it was fometimes carried to Rome, and the Periplôs makes it an article of importation at Barygáza. It appears alto to have been ufed as provition for mariners; and if this was the favourite bread of Egypt, in preference to grain, Homer might well fpeak of it as a luxury and delicacy; but his lotus is generally fuppoid to be the fruit of a tree, by our African travellers. Authors differ, fome afferting that it is fill common in the Nile, others faying that the lotus now found there has neither pulp nor fubfiance.

70. Μοκρότε θυμίαμα. D. P.

An incense called mocrotus or mocroton.

#### 71. Μολόχωα. Ρ.

Coarfe cottons of the colour of the mallow. Others read Μοναχέ, either fingle threaded or of one colour.

Coarse cotton dyed of a whitish purple, and therefore called molochina from Μελάχη, mallows. Wilford, Asiat. Differtation. vol. ii. p. 233.

Paolino interprets Molochina, tele finiffime dipinti e richamente, p. 95. i. e. chintz. Muslins are faid to derive their name from Moful, because they were brought from thence by caravans into Europe.

(Marco

(Marco Polo, lib. i. c. 6.) But there is a diftant refemblance between Molochina and mullins, and the Greeks had no foft found of ch. If there is any name in the native language fimilar to either, we ought rather to feek for an Oriental derivation than a Greek one. At the fame time it may be confidered, that purple cottons might have as general a fale formerly, as blue Surats have now.

72. Μόλυβδος. Lead. P.

73. Mora. P. A species of cinnamon. See Kassia.

74. Muçov. D. P. Myrrh or eil of myrrh 18.

A gum or refin iffluing from a thorn in Arabia, Abyffinia, &c. Bruce has given an account of the plant; he fays it is originally from Africa, and that the Arabian myrrh is fill an inferior fort. See Bruce, Chambers, and Salmafius.

75. Mugenn. See Assia Mugenn. Porcelane. See Gesner and Chambers in voce.

### N

 Νάρδος. D. P. Nardi Stachys, Nardi Spica, in the Digeft. Spikenard.

This article appears under another form, and as if it were a dif-

The African is best; the Abyssian, Arabian, and Indian, worst. Dr. Burgess.

ferent

ferent article in the Digeft, No. 3; the Nardi Stachys is No. 5, but under No. 3 we read

Folium

- Pentafphærum.
   Barbaricum.
- C . . . . l . ll . . . .
- 3. Caryophyllum.

The two first of which may be interpreted in conformity to the authorities which follow: 1. Folium Pentafphærum, Betel. 2. Folium Barbaricum, fpikenard; but the third is the Clove, and is not related to the other two folia or leaves, unless it were introduced into the refeript of the Digeft, from the cuftom-house at Alexandria, because it was a compound of φυλλω, a leaf. Carno-phullon, the nut leaf, is a name applied to the pink flower, because the sheath which encloses the flower is scolloned and jagged like the sheath of the nut. Whether this was transferred to the clove itself, on account of the angular points at the head of the clove, or nail; or, whether to the plant, I am not able to determine. (See article Caryophyllon); but Naplos is the spikenard called Folium Barbaricum, because it was obtained at Barbarike, the port of Scindi; and Folium Gangiticum. because it was likewise procured at the Ganges, that is in Bengal; Naples yaranan alfo, as it appears in the Periplus (p. 32.), by the general confent of the commentators, is read, Napoles L'appering, and confirmed by the Periplûs itself, p. 36.

No Oriental aromatic has caused greater disputes among the critics, or writers on Natural History, and it is only within these few years that we have arrived at the true knowledge of this curious odour, by means of the inquiries of Sir William Jones and Dr. Roxburgh. Their account is contained in the fourth volume of the Afiatic Refearches, and Dr. Roxburgh was fo fortunate at laft as to find the plant in a flate of perfection, of which he has given a drawing that puts an end to all controverfy on the fubject.

The nard has the addition of spike from the Latin spica, an ear of wheat, which, according to Dr. Roxburgh's drawing, it perfectly refembles. And this adjunct is found also in its Arabic name, sumbul; and in its Shanskreet appellation, Jatámánsí; as also its Perfic title khústah, all signifying spica.

Sir William Jones, Afiat. Ref. iv. 117, fays, it is a native of Budtan, Népal, and Morang; and that it is a species of Valerian. It is remarkable that he had himfelf feen a refemblance of it in Syria, as the Romans or Greeks mention Syria as one of the countries where it is found; but Ptolemy gives it its true origin in these tracts of India. A specimen was brought down to Calcutta from Boudtan at the request of Sir William Jones, and the agents of the Deva Raja called it pampi; but it was not in flower. Some dried specimens of it looked like the tails of ermines, but the living ones, as Dr. Roxburgh afterwards found, rife from the ground like ears of wheat. It answers the description of Dioscorides. It is weaker in scent than the Sumbul spikenard of Lower Asia when dry, and even lost much of its odour between Budtan and Calcutta. The odour is like the fcent of violets; but the living plant is forbidden to be brought out of Boudtan. It was, however, procured by the intervention of Mr. Purling, the English resident; and was at last received in its perfect form by Dr. Roxburgh, who has described it botanically. As. Ref. iv. 733.

In the age of the Periplûs it was brought from Scindi, and from the Ganges; which, according to Sir William Jones, we ought to conclude conclude would be the natural port for it, as coming from Boudtan. This authorizes the change of reading from yaxwerzi, [gapanika,] to yayyrrui, [gangitikà,] more especially as it is mentioned at the Ganges. Some fanciful inquirers might think they had found the mention of Japan in this passage.

We ought not to omit fome particulars from Pliny which are remarkable. He deferibes the nard with its fpica, mentioning also that both the leaves and the fpica are of high value, and that the odour is the prime in all unguents. The price an hundred denarii for a pound. And he afterwards vilibly confounds it with the malobathrum or betel, as will appear from his usage of hadrosphærum, mesosphærum, mierosphærum, terms peculiar to the betel.

Hoffman in voce Foliatum, writes, Folium catalphærum eft Folium Malabathri quod inde σραφαι, i.e. pilulæ conficerentur. Folium vero Barbaricum, id quod Indicum, Graci recentiores nominarunt quod ex India deferretur per Barbaricum Sinum. F. F.—
But it is not the Barbaricus Sinus on the coaft of Africa that is
meant, but the port Barbarikè in the Delta of the Indus. There the
Periplus finds the fpikenard, which is the folium Indicum. Folium
catafphærum, hadrofphærum, &c. is the betel-leaf. Hoffman adopts
Salmafius's opinion in regard to the miltake of Pliny: he feems to
think that the malobathrum, as well as the folium, was confounded
with the fpikenard. If fo, the malobathrum Syrium of Horacc is
the unguent of fpikenard, which, according to Sir W. Jones, is found
in Syria as well as in India.

The characteristic name of the nard is folium 37, the leaf, pre-

<sup>&</sup>lt;sup>33</sup> Salmafus, p. 1265, is clearly of opinion, folium to nard. He fays it is always peculiar that Pliny is regularly miltaken in applying to malobathrum betel.

eminently in contradiffinction to coffus, the root, both as the prime odours of their two forts, the root and the leaf.

Dr. Falconer has juftly cautioned me to be fure that the nard of of Pliny is the leaf. I know no more of natural history than I have obtained from the authorities here cited; but that Pliny mentions . both the fpica and the folium of the nard, is certain; and by his expressions I understand, that what we now know to be the root, he funposed to be the growth. Cacumina in aristas se spargunt, afforedly expresses something above ground; ideo gemina dote nardi spicas ac folia celebrant, by which we must understand that cacuming and spicæ are identified. But that Pliny was mistaken, and that the fpica was really the root, cannot be doubted, after the account that Dr. Roxburgh has given. It is clear also from the authorities adduced by Dr. F. that the ancients were well informed of this. " In " one of the receipts for the Theriaca Andromachi, Napoloso TE pi Cau " Ινδης. Ναρόε ς αγυς, η ριζα ταυτης Βερμαινει μεν κατα πρωτην απος ασιν. " Æginet, lib. vii. Galen speaks of it as a root: su. Tourrow de n si Ca " συγγινομενή δυναμεών. And Arrian: εχειν δε την ερημον ταυτήν τω " Ναρδε ρίζαν, πολλην τε εξ ευοσμον, εξ ταυτην συλλεγειν τες Φοινικας. " And Galen, lib. xii. de Antidotis, c. 14. εφεξης δε της προγεγραμ-" μενης ο Ανδρομαχος Ινδικην Ναρδου πελευει βαλειν, ηνπερ η) ταχυν ουο-" μαζομεν Ναρδον, κὸ τοι ρίζαν ουσαν, απο της προς τες αςαχυας ομοιο-" THICS, MATA THE MAPONE. To these may be added the testimony of " the moderns; Murray, Apparat. Medic. vol. 5. pp. 445, 446. " Lewis, Mat. Med. and the following note from Bodæus, which " perhaps best solves the question: In Indica Nardo, salvo meliore " judicio, spica dicitur cauliculus, multis capillaceis foliolis obsitus, " ad instar aristarum; nec de nihilo aut immerito Graci antiquis-" fimi, Romani et Arabes Nardo illi Spicæ appellationem impolu-" erunt.

"erunt. Radix quidem est, sed quae cauliculum e terra emittat, 
"aliquando plures ex una radice capillaccis densis aristatisque foliolis 
"vestios. Not. in Theophraft. p. rots." F. F. Add to this the 
testimony of Dr. Roxburgh, and it will appear evidently that Pliny 
was mistaken. Another medical friend informs me, "that the 
"matted fibres, which are the part chosen for medicinal purposes, 
"are supposed by some to be the bead, or spike of the plant, by 
"others, the roal—they seem rather to be the remains of the withered stalks, or ribs of the leaves; sometimes entire leaves and 
"pieces of stalks are found among them." Is not this the origin 
of Pliny's mistake, which Dr. Roxburgh sets at rest? and may not 
these leaves and stalks be purposely left to increase the weight and 
price; or even to deceive, as the natives are so jealous of their 
plant? All this accords with the quotation of Dr. F. from Bodeus.

But there is still a more remarkable particular in Pliny, which is, that he evidently copies the Periplus in the three places which he allots for the markets of the fpikenard; for he mentions Patala at the head of the Delta" of the Indus, correspondent to the Barbarika of the Periplas; and another fort which he calls Ozentitides, evidently agreeing with the mart of Ozéne (p. 27. Peripl.); and a third fort named Gangitie, from the Ganges, answering to gapanie, for which all the commentators agree in reading Gangitie. Very strong proofs these, that Pliny had seen this, journal and copied from it; as he mentions agothing of Ozéne in his account of the voyage, and only catches Ozentides here incidentally. See Salmasius, p. 1059, et seq. who is very copious on the subject, and has exhausted all that the ancients knew of this aromatic."

70. Ναύπλιος.

<sup>59</sup> Whether this in Pliny does not apply to Coffus?

15 It refembles the tail of a fmall animal, in Dr. Burgefs's Collection.

70. Ναύπλιος, p. 27. Nauplius. P.

It feems to be an inferior tortoife shell from the context, which runs thus, & Mahay dadopos para ro lodge, & sudrales dafogo, i.e. tortoife-shell of superior kind, but not equal to the Indian; and a small quantity of that species called nauplius. It may, however, be a different commodity; but I cannot trace it in Pliny, unless it be the shell of that sinh he calls nauplius, lib. ix. c. 30. or 49 Hard, which seems a species of the nautilus; but which Hardouin says, does not fail in its own shell, but a borrowed one.

71. Νημα Σηρικόν. D. P.

Sewing filk, or filk thread, from China. If this paffage be correct, it proves that filk was brought into India from China, as early as the age of the Periplûs.  $N\tilde{y}\mu\alpha$  can hardly be applied to a web, it feems always to be thread.

It is called parage by Procopius and all the later writers, as well as by the Digeft, and was known without either name to Pliny; for he fays, the women who wrought it had the double trouble of untwifting the filk thread, and then weaving it up into a manufacture. Unde geminus noftris forminis labor redordiend fila rurfumque texendi. See Procop. Aneed, p. 3. Zonaras af Concil. p. 231. And for the hiftory of the filk trade at Tyre, fee Procop. Hift, Arc. p. 73. Juffinian ruined the trade at Tyre, and yet fent the Monks to bring the worm from the Eaft. Procop. de Bello Goth, iv. 17. p. 613. Byz. Hift. See Gibbon.

Αυτη δε εςτι η μεταζα εξης ειαθασι την ετθητα εφηνάζειθαι, ην παλοι. Ελλοψες Μηθικην ειαλους, ταυν δε Σηριινη ευριαζεσιν. Procop. Perlic. & Vandal. lib. iv. Μεταζω fera cruda. Du Cange. F. Unwrought filk is called Έρον in the Periplis. Ιματία τὰ ἐκ ΜΕΤΛΞΗΣ ἐν Βηφυτῷ μὲν χ) Γύρφ πόλιστυ τῷς Φοκίκη; ἐργάζεσθαι ἐκ παλακῖ ἐκάθει ὁι δὲ τατῶν ἐμποφὸι χ) δημπαργοὶ κ) τεχείται ἐντὰυθα τὸ ἀνέικαθεν ἄκκν. Procop. Λπος. p. iii. Hifl. Λτς. p. S.

The manufactures had been long established at Berytus and Tyre. The web was formed from the metaxa; may we not call it organzined filk? The price of the metaxa was raised by the taxes imposed in Persia; and, upon the manufacturers raising the price, Justinian fixed a maximum and ruined the trade.

## 0

72. Olovov. Muflin. P.

1ft fort. Ίνδικον το πλατύτερον ή λεγομένη Μεναγχή.

Wide India muslins called Monakhè, that is, of the very best and finest fort; particularly fine.

#### 2d fort. Σαγματογήνη.

 in Ceylon, p. 328. See also Dampier, New Holland, p. 65. and Voyage, p. 165. 'Οδόπου is from δόπη, the thin inner garment of women, in contra-diffinction to the χινών of men. Hom. II. Σ. 595. Meurifus proposes Σαγματογεύνη, vestis pellicia. F.

Monakhè, fingle.

3d fort. Xudaiov. P.

Coarfe muslins, or rather coarfe cottons, called at present dungarees; Wilford, As Differt. vol. ii. p. 233. to which monakhe is opposed as a finer fort.

- 73. Olivos. Wine. P.
  - Λαοδιατρός. Wine of Laodicea, in Syria. Syria is ftill famous for its wine. Volney, tom. li. p. 69. Strabo. d'Anville Geog. An. ii. 134.
  - 2. Ιταλικός. Italian Wine. P.
  - Agadenes. Arabian Wine. P. It is dubious whether it may not be palm or toddy wine, it feems to have been a great article of commerce.
- \*Ομφαζ Διοσπολιτική. Dipfe, Rob of Grapes from Diofpolis. P.

For the explanation of this article I am wholly indebted to Dr. Falconer, and return my thanks to him more particularly, as it was the commencement of his correspondence. He observed to me, that it was the diple of the Orientals, and fill used as a relish all

over the Eaft. Dipfe is the rob of grapes in their nuripe flate, and a pleafant acid. I have found many authorities to confirm his fuggeftion. Pliny, v. 6. xii. 19. xii. 27. xiv. 9. xxiii. called by Columella, Sapa vini. See alfo Shaw. Dr. Ruffel's Aleppo, p. 58, and Pocock, i. p. 58. made at Faiume, and called Becmas, or Pacmas. Her Hierofol. ex uvarum acinis Mauris Zibib vel Zibiben dictum, p. 357, ex acinis fuecum exprimunt, coquuntque, donce ad fpiffitudinem, inflar mellis chullierit, Pacmas id Arabicè vocant, nos defrutum, Itali mofto cotto, muflum coclum, cofque in cibis pro intinctu utuntur, nonnulli aqua multà dilutum bibunt, id. p. 387. Ebn Haukal likewife deferibes it, and calls it Douthab, made at Arghan in Sufana.

### 75. Onyx Arabicus. D. Arabian Onyx.

This article thands in the Digeth to unconnected with all that precedes and follows it, that Ramulio, in order to make it a drug, reads it Gum Arabie; and I can hardly think otherwise than that it is a corruption, and that fome aromatic produce of Arabia is meant; but what, it is impossible to determine. Mr. Falconer is perfunded "that it is the Onyx used as a box to contain odours or perfumes, "the same as the Alabaster of Seripture, Luke, vii. 37. and Pliny, "lib, xxxvi. c. 8. or 12 Hardouin, strongly confirms this opinion, "for there the Onyx is faid to be found in Arabia, and to be the "fame as Alabastrites, and to be excavated for the purpose of containing unguents or perfumes; and so Horace Nardi parvus onyx "elicet cadum." F. I have nothing to object to this but the context.

76. 'Οπήτια, p. 27. Awls or bodkins. P.

An article in trade on the coast of Africa, as needles are at this day.

## 77. 'Οφειχαλκος. Mountain Brafs.

Used for Ornaments. Ramusio calls it white copper, copper from which the gold and filver has not been well separated in extracting it from the ore.

## П

78. {Pardi Leopardi } D. Tygers, Leopardi, Panthers. {Leones } D. Lions and Lionesses.

79. Παρθένοι έυειδείς. Ρ.

Handsome women slaves for the haram are mentioned as intended for presents to be sent up to the king of Guzerat, whose capital was Ozene or Ougein.

## 80. Pelles Babylonicæ. D. Parthicæ.

Hydes from Babylonia or Parthia, possibly dyed like Turkey or Morocco leather; but Q.?

## 81. Πελύκια. Ρ.

Small hatchets or axes for the African trade.

82. Pentaf-

#### S.: Pede Merica, Felius Penistelserum, D. Nard.

See article Nard. Edr. Falconer thinks that Pliny has not confounded the Folium, or leaf of the Nard with the Betel as Salmafins afferts; but that he takes the leaves from three different parts of the plant, the large making the leaft valuable odour, and the leaft leaves the best; hence, the distinction of hadrosphærum, mesosphærum, microsphærum, and that the pentasphærum of the Digest is flill an inferior fort. Of this I am no competent judge, but I think it ftrange that the diffinctions of Hadrofphærum, &ce should be applied by the ancients both to the Betel, as they are by the Periplûs, and to the Spikenard as they are by Pliny, if this opinion be founded. Pliny, lib. xxiii. 4. has certainly copied the fame authorities as Diofcorides, for he makes malobathrum a mafticatory to fweeten the breath, and an odour to put among cloaths, as we fometimes put lavender; both which particulars are in Diofcorides, but lib. xii. 50. Hard it is a tree found in Syria and Egypt as well as India. It is much more probable that Mr. Falconer should be right, than one who is little acquainted with Natural History, but my doubts concerning Pliny's confusion are not removed.

## 83. Πέπερι. Pepper. D. P.

Imported from the coaft of Malabar, as it fill is; the native term on the coaft is pimpilin; Salm. p. 1070. or the Sanfkreet, pipali. Af. Ref. vol. iv. p. 234. The pepper coaft is called in Arabic beledel-fulful. D'Anville, Ind. p. 118.

It was found by the Greeks from Egypt, first in Ethiopia, as an article of commerce brought thither by the Arabs, but was known in Greece much earlier.

Two

12

Two forts are diftinguished in the Periplus, " and recognized by "Theophrastus, lib. ix. c. xxii. σρογράλου round, and απομακες long. " And by Dioscorides, the Betel is likewise a species of the pepper." Porro Betle foliis Piperis adeo similia fun, ut alterum ab altero " control of the periplus of th

"vix discerni queat, nisi quod Piperis folia paulo duriora funt, et "nervi excurrentes paulo majores. Bodæus a Stapel in Theo-"phrastum." F. F.

#### 1. Κοττοναρικόν. Ι

From Cottonara, the kingdom of Canara, according to Rennell, which is fill the principal mart for pepper, or at leaft was fo before the English fettled in Sumatra. This is the black pepper. See Marfden's Sumatra, p. 117. White pepper is the black ftripped of its outward coat.

## Μακρον. P.

Long pepper 6, so called from its form being cylindrical, an inch and an half long. It confists of an assemblage of grains or feeds joined close together. It resembles the black pepper, but is more pungent, and it is a species of the East India pepper, totally distinct from the Cayenne, and used for the purpose of adulteration. This is the reason that we buy pepper ground cheaper than whole.

84. Περιζώματα. Ρ.

Girdles or fashes, and perhaps diftinguished from the following article,

. (85. Πηχυιαι αι ζωναι. Ρ.

Sashes of an ell long,) only in the difference of make or ornament.

" Tabaxir is the common long pepper.

86. Пачакду,

86, Парижов. В. Р.

Pearls, or the pearl oyfier. See the fishery at Cape Comorin.

87. Πορφύρα διαφόρα η χυδάια, p. 35. P.

Purple cloth of two forts, fine and ordinary. An article of trade at Moofa in Arabia.

88. Ποτήρια, Drinking Veffels. P.

Χαλκά, Brafs. P. Στρογγύλα, Round. P.

Mεγάλα, Large. P.

Probably all three epithets apply to the fame veffel. An article of import on the coast of Africa.

Β9. Πυρὸς ὁλίγος. P.

Wheat in small quantities, imported into Omana, or Oman in Arabia,

## P

90. Pivónegue. Rhinoceros. P.

The horn or the teeth, and possibly the skin, imported from the coast of Abyssinia, where Bruce found the hunting of this animal still a trade, which he has described in all of its branches, vol. iv.

91. Σάγγαςα.

## Σ

## Σάγγαρα. P.

Boats or small vessels used on the coast of Cochin for conveying the native commodities from the interior to the ports, and sometimes along the coast from Malabar to Coromandel and the contrary.

92. Σάγει Αρεποητικίει γειγραμμέτοι 2; βεξαμμέτοι, p. 14. P.

Rugs or cloaks made at Arlinoe (Suez), dyed, and with a full knap.

#### ο 3. Σανδαράκη. Ρ.

Red pigment, Salm. p. 1155. found in gold and filver mines. Pliny. Ore of Cinnabar. Dr. Burgess. Sandaracham et Ochram Juba tradit in infula rubri maris Topazo naści, inde nunc pervehuntur ad nos. Plin. xxxv. 22. Hard.

## 94. Σαπχαρι. D. P. Sugar,

Made at Tyre in the 12th century. Benjamin of Tudela. Bergeron, p. 17. But when first planted in Europe, dubious. See article 60.

## 95. Σάπφειρος. Sapphire Stone. D. P.

The ancients diflinguished two forts of dark blue or purple, one of which was spotted "with gold. Pliny says, it is never pellucid, which seems to make it a different stone from what is now called

<sup>&</sup>lt;sup>6</sup> Dr. Burgels has specimens of both forts, the one with gold spots like lapis lazuli, and not transparent.

supphire. Dutiens says, the true azure supphire was confectated to Impiter by the ancients.

## 96. Sarcogalla, or Sarco colla. D.

A flyptic, from \(\Sigma\_0^2\) and \(\sigma\_0^2\), to unite the fless, that is, in draw the lips of the wound together, and heal it. Supposed to be gum Arabie by fowe; but others fay, from a tree in Perlis. Ramotio reads the text without any notice of all chelucia or fareogalla, and concludes all three under the following article, which is read onyx Arabicus, but which he reads gum Arabicis, meaning, perhaps, to render the three confiftent; and a drug feems more requilite than the onyx-flone; but fee Onyx Arab. Dr. Falconer fays, the fareocolla is not gum Arabic; but adds, that it is well known in the fhops, though the tree, or country which produces it, is not known. See Chambers in voce. "Fit et ex fareocolla, it arbor vocatur, "eummi utilifimum mictoribus et medicis. Plin lib xiii, 11." F.

#### 97. Sardonyx. D.

"The fardonyx is next in rank to the emerald: Intelligebantur colore in Sarda, hoe oft velut carnibus ungue hominis impofto, et utreque tranflucido, talefque effe Indicas tradunt. Arabica exceeded a cultural candore circuli preducido atque non gracili, neque in recellin gemme: aut in dejectu renitente, fed in iplis unabonibus; in nitente praetera fubfrato utgerrimi e-doris. Plin. xxxvii. 7." F. See Chambers in voce, where, it is faid, the fardonyx of Pliny is not what now hears the name but a camea. I have not found this paffage as cited in Pliny, but conclude I have the numerals wrong: the fardonyx is mentioned in the chapter adduced.

98. Enpire

98 Expina despuara, Chincle Hides or Furs. P.

What is meant by dequara no where appears, unless it can be applied to the τάρποναι, whence the malobathrum was procured. But this is very dubious. See Μαλόξαθρον. Pliny mentions the Sêres fending their iron wrapt up in or mixed veftibus pellibusque. F. See article following.

99. Σίδηρος. Iron. P.

An import into Abyffinia for the manufacture of ipear heads, tohunt the elephant, rhinoceros, &cc. es

Indinoc. D. P. Ferrum Indicum. D.

Iron tempered in India.

" Ex omnibus generibus palma Serico ferro eft. Seres hoc cum-" vestibus suis pellibusque mittunt. Secunda Parthico, neque alia " genera ferri ex mera acie temperantur, cæteris enim admiscetur.

" Plin, lib. xxxix, c. 14. Plutarch (in Craffo). And Arrian de Rebus " Parth, or the work ascribed to him, mentions that the Parthians

" covered their armour with leather, but at the moment of attack

" they threw off the covering, and appeared glittering in their bur-

" nished steel. Milton also, Par. Regained, lib. iii." F. In montibus Kabel (Cabul) inveniuntur ferri fodinæ celeberrimæ, et humanis usibus aptisfimæ, producunt enim ferrum acutum et venustum. Al Edriffi.

100. Σινδόνες. D. P.

Fine linen of any fort, but that imported into Abyffinia might be Egyptian, and possibly of cotton; but

"To cut like an Indian fword, is a com- (as drills for working the granite obelifks) mon Arabic proverb in Atabilia. And in were made of Indian iron. Shaw quotes the Egypt, Shaw (p. 364.) fays, the hardest tools Periplos, but not perhaps jully. Eughber. Σιοδότες αι διαφορώταται Γαγγιταια, P.
Can be nothing elfe but the fineft Bengal muflins.

101. Sires. Wheat Corn. P.

102. Σκέπαφνα. Adzes. P.

In contradiffinction to πελύκια, hatchets.

103. Σκεύη αργυρά. Silver Plate. P.

101. Ταλά. Ρ.

Veffels of chryftal, or glass in imitation of chryftal.

105. Smaragdus. D. The Emerald.

There are twelve forts, according to Pliny and Indorus. (Gothofred.) Nero used an emerald as an eye-glass; and Gothofred, or Ifidorus, fuppofes that the emerald has a magnifying power. Mr. Falconer imagines it to magnify only from the denfity of the medium. Mr. Dutens denies that the ancients had any knowledge of the emerald, and in this he is supported by Tavernier, the Abbè Raynal, Harris, and Bruce. The green gems which the ancients called emeralds, were all of inferior quality to those brought from Brafil and Peru; and from the fize mentioned of fome of them, they are justly supposed to be Fluors; but we read of an emerald island in the Red Sea, and much notice is taken of them, both by naturalists and poets. The greatest disficulty to be surmounted by Mr. Dutens feems to be the archbishop of York's emerald, engraved with a Medufa's head of Grecian feulpture, and brought from Benares; but this, he calls a green ruhy, p. 14. See Bruce, i. 206. who fays, Theophraftus mentions an emerald of four cubits, and a pyramid fixty fixty feet high, composed of four emeralds. And Roderick of Toledo talks of an emerald table in Spain 347 feet long! But Bruce fays, likewife, the true emerald is as hard as the ruby. How then are we to diftinguish between an emerald and a green ruby? Bruce vifited the Emerald Island in the Red Sea, and found nothing more like emeralds than a green chrystalline substance, little harder than glafs; and this, he adds, is found equally on the continent and the island. Emeralds have been found in Peru, in the barrows of the dead, of a cylindrical form; fo that the Peruvians, anciently, must not only have known the gem, but valued it; and must also have poffeifed the art of cutting it. Ulloa. Mr. Falconer has fuggefted to me a fingular paffage in Pliny, which may be applied to Nero's emerald, and which had escaped my notice: Iidem plerumque et concavi ut vifum colligant. Plin, lib, xxxvii, c. 5. or 16 Hard.; fo that the emerald mentioned in this inftance- might truly be confidered as an eye-glass for a short sight. F. The whole chapter is so very express, that it is hard to conceive what is an emerald, if Pliny's is not: Scythicorum Ægyptiorumque tanta est duritia ut vulnerari nequeant. This feems to express that hardness which the jewellers try by the file.

106. Σμύςνα. Myrrh. D. P.

"The myrrh of the moderns is the fame as that deferibed by the ancients, but the tree from which it is obtained is fill doubtful. It is likewife fill brought from the fame countries, that is, Arabh, and the weflern coaft of the Red Sca. But the Trogloddis, or Abyfinian, is preferred to that of Arabia. Murray, Appear.

" Med. vol. vi. p. 213. See Bruce, vol. v. p. 27. Omnium prima est quæ Troglodytica appellatur, accepto cognomine a loco in qua

" provenit, splendens, subviridis ac mordens. Dioscorid. Matthioli,

" lib. i. c. 67. Plin. lib. xii. c. 15. It was procurable in Arabia,

" imported from the opposite coast of the Red Sea." F. F.

Διαφέρυσα της άλλης. Ρ.

Of a fuperior fort.

Еканту. Р.

Of the best fort.

107. Spadones. D. Ennuchs.

108. ETARTH. Gum. D. P.

Aδιερμινόια, read Σμυργάια, by Bochart, Geog. Sac. ii. 22. Salm. 520. Extract or diffillation from myrrh, of the finest fort. The reading is proved by Salmasius from a similar error in an inedited epigram. Minêan; Σμάρνης Αμμιντίας; Dioscor. lib. i. c. 78. Plinius habet Minæa, lib. xii. c. 16. and Hefych. 'Αμινδίαν σίνον. Stephan. in voce. F.

100, Στημι. Στίμμι. Ρ.

Stibium for tinging the cyclids black.

110. Στολαι 'Αρσινοητικάι. Ρ.

Women's robes manufactured at Arsinoè or Suez.

111. Στύραξ. Storan. P.

One of the most agreeable of the odoriferous refins. There are two forts, storax in the tear, supposed to answer to the ancient styrax 8 calamita. calamita, from its being brought in a hollow reed, or its diffillation from it; and common florax, answering to the flacke flyrax of the ancients. It now grows in the neighbourhood of Rome; but the drug was anciently brought thither from the islands in the Archipelago. See Salm. p. 1026. Chambers in voce. Most of these gums, refins, and halfams have in modern practice yielded to the American, as this seems to have given way to the balfam of Tolu.

#### 112. Σωματα, p. 15. P.

Slaves from Africa, an ancient trade! but the number was not great.

#### I.

## 113. Υώκινθος. D. P.

The hyacinth or jacinth, a gem which Salmafius fays is the ruby, p. 1107. See Solinus, c.xxx, p. 57, where it feems to be the amethyft. And Mr. Falconer concludes, that it is an anethyft, from the expredient of Pliny, emicans in amethyfto fulgor, violaccus dilutus eft in Hyacintho; but Hardouin reads, emicans in amethyfto fulgor violaccus, dilutus eft, &e., and violaccus fulgor is furely the peculiar property of the amethyft. Salmafius adds, that the Oriental name of the Ruby is Yacut from Hyacinthus; but Dutens fays the hyacinth is orange Autora, inclining to proppy, p. 53, 5 and makes the Jacinth a diffinct gem from the Ruby; but the Ruby, he observes,

<sup>6</sup> Strabo mentions flyrax in Pildia; a diffillation from a tree, caused by a worm breeding in it. Lib- xii. p. 570.

likewife, is of a poppy colour, and is called Hyacinth when it has the leaft tincture of yellow. Whether this diffinction applies to the ancients, I am not a judge to determine; but if the hyacinth is a diffinct species, I can find no claffical name for the ruby. See Pliny, xxxvii. 9. or 41. Hard, and sulgor violaceus seems appropriate to the amethyst.



114. Fucus. D. Red Paint.



115. Χαλκός. Brass or Copper. P

116, Χαλαυργήματα. P.

Veilels of brass, or any fort of brazier's work.

, 117. Al-chelucia, which Ramulio reads Agallochum, Alocr. D. Matthioli coincides with Ramulio in the correction. Diofeor. p. 40. "Agallochum is the aloes wood, xylo aloes, lignum aloes, "the lign aloes of feripture. Numb. xxiv. 6. and not aloes the "drug. The best is heavy, compact, glotfly, of a chefaut colour, in"termixed with a blackish and sometimes purple shade. It is resi"nous and balsamic. Neuman's Chemistry, by Lewis." F. F. I was myself disposed to think Chelucia, xolunia, a corruption of Xolus, Chelys, the tortoise, i. e. tortoise-shell.

118. Χελάρη.

118, Χελώνη. D. P.

· Tortoile-shell seems to have formed a great article of commerce, for ornaments of furniture, as beds, tables, doors, &c. both in Italy, Greece, and Egypt. It was brought from the coasts of Δfrica near Moondus, from Socotra, Gadrosia, Malabar, and the Lackdive, and Maldive Ilanda, and from Malacca. The latter seems to be designed by the χρανισύργου of the Periplus.

119. XIT WVES. P.

Under garments, imported from Egypt into Africa.

120. Χρημα. Specie. P.

The Periplûs is very accurate in noting the ports where it was necessary to trade with specie; and in more instances than one, notes the advantage of exchange.

121. Χουσόλιθος. · Chryfolite. P.

Sometimes the fame as chryfites, the touchflone for gold, Salm.
p. 1103; but deferibed as a flone as it were fprinkled with frots of
gold, Salmafius, p. 407. who points out what it is not, but cannot
determine what it is. It may well be the topaz\*\*, as Dutens makes
it, p. 18.

122. Xeurgy. P.

Used with Enragon, as is apposen also, expressing gold and silver denarii.

123. Χρυσώματα. Gold Plate. P.

44 The Bohemian is yellow, with agreenish nut; the Oriental is very pale yellow. 13. Burgefe's Oriental topaz, deep yellow.

There is a corrupt pullage in the Digeff, which appears thus: Chelynic hopia Indica adierta.

Gothefied joins it to the preceding article Beryllus; and Ramutio reads it Beryllus Cylindrus. Salmafius figpofes it to be a feparate article, and reads it Chelone althiopa, as one species of the Chelonia of Pliny, (xxxvii. 56. Hard.) that is, the gent called the Æthiopian Tortoife Eye, and Chelone Indica, another species; and it may be added, that this is conformable to the order of the Digefl, when it mentions two species of the same article. The pallage, however, is much doubted, and is sometimes joined with adierra, and sometimes separated. Hopia Indica adierta, opera Indica adierta, omnia Indica adierta, and again opera Indica, tincta, adincha, &c. &c.; but if we accede to Salmafius in regard to the two species of Chelone, and place the period at Indica; adierta may be another general title like several in the Digeft, and easily converted into Serica, it would then shand thus:

Serica, - general title, filk.

Metaxa - 1ft species, - filk thread.

Vestis Serica - 2d species, - filk web.

. Nema Sericum, - 3d species, - sewing silk.

The only objection to this is, that Metaxa and Nema Serieum are ufually applied to the fame thing. Mr. Falconer fuppofes that tincha, if the reading can be fupported, may mean dyed or coloured filks. F.

Campbor.

Camphor. Cafur, al Kafur, of the Orientals. I had expected to find this article in the Digeft, but as it comes particularly from Java, Sumatra, and Borneo, this may account for its being unnoticed. The hiflory of it occurs in Schikard's Tarik, p. 185, who commends Marco Polo for his veracity, (was he not the first who brought the knowledge of it to Europe?) and he adds, that Al Edriffi Speaks of Lanchialos, and then Kalan, where Camphor is obtained, and Kalan he supposes to be Borneo. This is a proof that the drug was known to the Arabians in the twelfth century; but the Lanchialos of Al Edriffi is very dubious; he certainly makes it a different island from Ceylon, and yet Lanca llam is one of the Hindoo names of Ceylon-See Al Edriff. p. 35.

Capilli Indici. D.

THE END.

#### ERRATA.

Page 257. note 75. line 5. for Appendix, No. I. read Appendix, No. 111.

171. line 3. for "Years word, read Years appel.

cluded with p. 481.

372. - 10. infert a full flop after place, and a comma after Pliny.

380. note 114. line 8. for fetivere, read fertivere. 480. the running title of Sequel to the Periplin of the Krythreim Sea, thould have con-

494. line 7. dele the comma at Macs, and place it at Ptolemy.

בתַאשֻׁרִים rod בתַאשֻׁרִים fine 13. ∫or בַתַאשֻׁרָים, rod בתַאשֻׂרָים

552. - penult. dele by any one. Appendix, p. 45. note 51. line 3. for Plantagin, read Plantagini.

# CORRECTIONS.

Page 16. Part I. nate 20. Why does Welfeling tell me to believe this? This ought not to have been imputed to Welfeling, but to Stevens in Welfeling's edition of Ctefas.

 Part I. line 8. The position of Palibothra, fixed by Sir W. Jones, is again rendered dubions by Lieut. Wilford. Asiatic Researches, vol. v. p. 272. Lond. et.

27. Part I. note 48. Plutarch does not fay what is imputed to him, but the contrary: it neser has happened, and never will, except in that country. This error is acknowledged with found degree of most iffication.

74. Part I. note 14. Beled figuifies a country, not a caffle.

#### ADDITIONS.

Page 275. Part II. The Negra of Cedreius is Najeran.

323. Part II. Sanuto's Map is noticed by d'Auville, Antiq. de l'Inde, Supplement, p. 187. but not its claim to antiquity.

Strahan and Prefton, Printers-Street.

#### 11807

#### Periplus of the Erythrean Sea Part I &II

- pX Preface o1 Book I: Preliminary Disquisitions
- p3 Account of the Periplus
- p9 Homer
- p11 Herodotus p20 Jambulus
- p24 Agatharchides
- p44 Hippalus
- p57 Intercourse with India Antecedent to History
- p68 Chart of the Red Sea
- p69 Book II
- p71 Myos Hormus p71 Bernice
- p/1 Bernice
- n96 Adouli
- p110a Chart of Coast of Africa
- p111 Deire
- p118 Malao
- p131 Tabai p139 Azania
- p190 Discoveries of the Portuguese
- p204 Thamudemi and Canraites p207 Voyages of Bartholomew Diaz
- and Vasco da Gama
- p230 Book III: Arabia
- p256 Compass p270 Expedition of Elius Gallus
- p289 Straits of Bab-el-Mandeb,
  - Navigation of Sesostrais p312 Description of Few Islands
  - p325 Gerrha
- p328 Antiquity of Oriental Commerce
- p335 Book IV: India
- p341 Omana in Gadrosia p356a Map of Scindi and Gulph of
- Cambay p364 Kingdom of Bactria, Tagara, Plithana, Ozene, Dekan
- p377 Ariake, Oopara and Bombay

- p404 Naoora, Tundis and Mooziris of the Periolus
- p423 Hippalus and the Monsoon p440 Balita, Comarei, Kolkhi, Pearl
- Fishery p448 Ceylon
- p471 Sequel to the Periplus of the
- Erythrean Sea p481 Dissertation I on the Sinae, Seres
- and the Termination of ancient Geography on the East
- p522 Dissertation II on Ezekiel
- p556 Dissertation III on the Navigation and Compass of the Chinese
- nB1 Appendices