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## PERIPLUS

## OFTHE

## ERTTHREANSEA.

PART THE FIRST,

## 15818

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ANACCOUNT:QF

## THE NAVIGATIONOETEE:ANCIENTS,

 FROM GHE SEA OF sUEZ TO THE COAST OF ZANGUEDAR. WETH:DISSERTATIONS.
## By WILLIAM VINCENT, D.D.

 candum et ópoidts, nee tam poffuint Cic. ad Atricum, lib. ii. ep. o.
'LONDON:
Printed by A. Strahan; Printers street;
FOK T. CADELL JUN. AND'w. DAVIES IN THE STRAND.
1800.

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Zonden, Publishat May $2^{\prime t} 2 \theta 00$, by the RdDr Vincerit. Deans Fard. Westminstor
TO

## THE KING.

SI: $\mathrm{R}_{2}$
While we contemplate the maritime power of Great Britain, raifed under the aufices of Your Majefty to a preminence unexampled in the annals of mankind; we view. with equal pleafure thofe not lefs ufeful though lefs fplendid efforts, which, under Your Majefty's immediate patronage and direction, have advanced the limits of difcovery to that
boundary which Nature has fixed as a barrier to the enterprize of man.

It is due to the confummate abilities of the moft experienced commanders, exercifed under this patronage and direction, that a folution has been given to three of the greateft problems that concern the world which we inhabit; for it is now determined by a fucceffion of voyages commenced and profecuted by Your Majefty's command, that the Entrance. into the Pacifick Ocean by a paffage either on the North Weft or North Eaft is impracticable, and that the Exiftence of a great Southern Continent had nothing but theory for its fupport. It has likewife been afcertained that the longeft voyages are not detrimental to
life
life or health; and it has been proved by the execution of Your Majeft's commands, that diftant nations may be vifited, not for the purpofe of fubjugation, but for the interchange of mutual benefits, and for promoting the general intercourfe of mankind.

In the profecution of thefe great defigns, if we have feen fcience advancing to perfection, it is ftill an object of interefting curiofity to turn our view back from the refult to the origin, to trace navigation to its fource, and difcovery to its commencement.

This is the defign of the Work which I have now the honour to prefent to Your A 2

Majefty

Majefty for protection; its merits muft be left to future decifion; but it is at leaft a tribute of gratitude offered to the patron of every fcience, in which the interefts of navigation and geography are concerned. I have the honour to fubfcribe myfelf

> TOUR MAJESTY's

Moft faithfuil।
and moft devoted
Subjed and Servant,

WILLIAM VINCENT.

## PREFACE.

$\mathrm{M}_{\text {uch }}$ difquifition upon a brief narrative is the profeffed defign of the following work; a work which has encreafed under my hands far beyond my calculation or defign, and which I now publifh incomplete, becaufe, from the various interruptions of an active life, whatever may be my wiff and object, I cannot pledge myfelf to bring it to a conclufion.

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

To the cenfures which I incurred, I am not infenfible; but if cenfure be not illiberal it is the part of prudence to turn it rather to the purpofe of correction than offence. One charge only I fhall notice; and
that, not becaufe it was unjuft, but becaufe it originated in a mifapprehenfion of my defign. In the few inftances where I ventured upon etymology, I did not expect the feverity which I have experienced. I had difclaimed all pretenfions 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 fill I have had the mortification to find that all my precautions were ineffectual. I thought that in treating of oriental queftions, the conjectures of a claffical man, even if erroneous; might have been pardonable; but I was miftaken : I have feen my error; and I fhall avoid a repetition of the offence. Nothing etymological will occur in the following pages, but what will be propofed merely as matter of inquiry, or what can be referred to oriental authority for fupport.

In the Voyage of Nearchus 1 traced the intercourfe with India to its fource, a fubject, as it has been called, " barren, but important :" and I now profecute the fame inquiry down to its completion, by the difcoveries
of Gama, under difficulties fill more difcouraging to an Author, A work, relicved neither by the incidents of a voyage, or the occurrences of a journal, varied by no perfonal dangers or efcapes, animated by no perfonal exertion or ability, however it may abound in information, can prefume but little upon its powers of attraction. Fidelity, labour, and refearch, it is true, have their hare of merit; but the approbation which they claim muft be derived from thofe who can appreciate the value of talents which, though common to all, are exercifed only by the few.

Refearch, indeed, affords a pleafure peculiar to itfelf; it prefents an idea of difcovery to the imagination of the inquirer; an intellectual pleafure, in which he flatters himfelf others will be defirous to participate; and which, if he can communicate with fatisfaction proportionate to his own, publication is not merely the indulgence of a propenfity, but the exercife of a focial duty.

I have to return my thanks a fecond time to Mr. Dalrymple, for his kindnefs in fuffering me to copy two

of his charts; to Sir William Oufeley, for favouring me with the fheets of Ebn Haukel as they came from the prefs; to Dr. Charles Burney of Greenwich, 'and toCaptain Francklin of the Bengal Eftablifhment. I have likewife been again more particularly obliged te the Bifhop of Rochefter for his affiftance in correcting the pofition of Meroè; on which fubject, more probably will appear upon a future occafion.

## THE

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\text { PERIPLUS } \\
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BOOKI.

PRELIMINARY DISQUISITIONS.

1. Introduction. - II. Account of the Periplas. - III. Honter. IV. Heródoíss.-V. Ciȩías.,-VI. Iambílus. - VII. Agatharchiòes: - YIII.! Hrppalus. - IX. Age of the Periplis. - X. Intercourfe zoitb India.
2. 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 carly ages, perfonal intercourfe was impracticable: the communication by fea was unexplored, and travelling by land was precluded by infecurity. The native comm moditics of one climate pafled into another by intermediate agents, who were interefted in little beyond the profits of the tranfit; and nations in a diferent hemifphere were known refpectively, not by their hiftory, but their produce.

Such: was: the fituation of Europe in regard to lndia; the promduce of each twas coniveyed to the other by channels which were: unknowne to both ; and the communicator by land througl Thetary: or Perfia, was as litte underfood, as the intercourle by the thdian" Ocean. That both exitted in fome fenfe or other is undentable for the mof ancient of thithories mentions commodities which are the native profuce of Indias aded whiche they were krown, of teceffity muft have been conveyed. What the means of conveyance were py land, or on the north, is a fubject which does hot: enter into the plan of the following work; the the franfort by: fea is a conderation of all others the mof traporrant it is de pendent on a diforery common to all the nations of the world $\%$ : the dominion of the fea may pafs from one people to another, but the communcation itelf is opened once for" alf, the never be flut.
That the Arabans were the firt navigators of the fidian Ocean and the firt carriers of Thdian produce, is evident from alt hitony as tar as hiftory' goes back; "and antecedent to hiftory, from analogy, from neceffity and from local fituffon, out of their: Hands this conmerce was transferred to the Greeks of Egyph and to the Romans' when wafters of that country; wpon the decine of the Roman power it reverted to the Arabians, and, with them to would have remained, if no Gama had, arifen to effect a change in the whole commercial fytem of the world at large.

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

[^0]Ing work; the balis which I affume is the Periplus of the Erythrean Sea; and in commentirig on this work, an opportunity will be given to introduce all the particulars connceted with the general fubject.

## ACCOUNT OF THE PERIPEUS.

1I. The Periphus 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 coatt of Africa to the Eaft Indies, during the time that Egypt was a province of the Roman empire.

This work was firft edited from the prefs of Froben at Bafle, in 153.3, with a prefatory epifte by Gelenius; but from what manufcript I have never been able to difcover; neither is it knownd whether any manufcript of it is now in exitence. The edition of Stuckius at Zurich, in 1577 , and Fudfon in 1698 , at Oxford, are beth from the printed copy, which is notorioully incorrect, and their emendations remove few of the material difficulties ${ }^{2}$; befides thefe, there is a tranfation in the collection of Ramufio, faithful indeed, as all his tranflations are, but without any attempt to dmend the text, or any comment to explain it; he has prefixed a difcourfe however of confiderable merit and much learning, which I have made ufe of wherever it could be of fervice, as I have alfo of the commentaries of Stuckius, Hudfon, and Dodwell; but the author with whom I am noft in harmony upon the whole,

[^1]is Voffus, who th his edition of Pomponius Mela has touched upon forme of thefe boints, and I wifl we bad the oromed rif his onininn in detail.

The Erythrean Sea is an appellation given in the age ot the author to the whole expanfe of opean reaching from the cont of Africa, to the utmoft bounday of ancient knowledge on the eaft un, appelation, in appeanace deduced from their entrance into it by the Araits of the Red Sear Hyled Errtha by the Greelss, and not excluding ohe gulphof Perfa, which the fabulou hintory of aling Erythras is more peculiary appopitate

Who the author was, is by no means erident bur cemamy not Arran of Nicomedas who wrote the hitory of Aldadet, whote wrings have been the fubject of my meditatons for aapy year
 work; te was a nan of emmence by binth, rank, talents, and education, whiter the athor before us hane no the gatites, boats but veracity s a tecommendation mach milompenfate
 due, and to dirplay this on ats parts is the pothepal merit of the commentary I Tave uvdertaken.

[^2]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 contermplation was known; it is not impofible, therefore, if the Periplîs of the Erythrean Sea was found anonymove, that it was attributed to an author whofe name on fimilar fubjects was familiar. But if Arrian be the real name of the author now under contemplation, and not fictitious, he appears from internal cvidence to have been a Greck, a native of Egypt, or a refident in that country, and a merchant of Alesandria :' he manifeftly failed on board the fleet from Egypt, as far as the gulph of Cambay; if not farther; and, from circumftances that will appear hereakter, is prior to Arxian of Nicomêdia, by little lefs than a century. His. work has long been appreciated by geographers, and is worthy of . high eflimation as far as the author can be fuppofed perfonally to have wifited the countries he deferibes; fome featrered lights alio occur epen in regard to the moft diftant regions of the eaft, which are vafuable as exhibiting the firf dawn of information upon the fabject.

Of this work no adequate idea could be formes by a tranflation; but a compaxifon of its contents with the knowiedge of India, which we have obtained fince Gama burt the batrice of difcovery, cannot but be accoptable to triofe who value geography as a fcience, or delight in it as a piature of the world.
The Periplas iffcif is divided into two diftinct parts, one compretiending the coaft of Africa from Myos Hormas to Rhapta; the other, commencing from the fame point, includes the conff of Arabia, both within the Red Sea and on the ocean; and then pafing

कaffing over to Guzerat runs down the coaft of Malaban to Ceylon. Lt is the firlt part, containing the account of Africa, which I now prefent to the public; a werk which, perhapi, I ought never to have undertaken, but which I hope to complete, with the addition of the oriental part, (if blefed with a continitiance of life and health, by devoting to this purpofe the few inte vals which can be pared from the more important dutiss in which $I$ in engaged. The whole will be comprehended in four books; the frift confifing of preliminary matter, and the othe three alloted refpectively to Africa, Arabia, and India, the three different countries which form the fubject matter of the Periplûs itfelf. In the exectition of this (defign I fhall encroach but little on the ground tready occupied Wy Doctor Robettion; but to Harris, and his learnet editor Doidor 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 decifions: where I am indebted I Galll nor be fparing of mr acknowledgmeats; and where I diffent, fufficient reafons will be alligned. I could have wifhed for the company of fach able guides farther on my journey; but I foon diverge from their traick, and muft explore my way like an Arab in the defert, by a few flight marks which have efcaped the ravages of time and the defolation of war:

To a nation now mifrefs of thofe Indian territories which were known to Alexander only by report, and to the Greeks of Egypt only by the intervention of a commerce refricted to the coalt, it may be deemed an object of high curiolity at leafl:' if not of atility, to trace back the origin and progrefs of difcovery, and to
examine the minute and accidental caules which have led to all our: Enowledge of the eall; caufe, which have by flow and imperceptible degrees weakened all the great powers of Afia, which have dutolved the eompires of Perfia and findoftan, and have re"duced the Othmans: to a fecondary rank while, Europe has anfen paranount in arts and arms, and Britain is the ruling power in India, from Ceylon to the Gaines - - a fupremacy this; enved undoubtedy by our. enemies, and reprobated by the advocates of our enemies. Anquetil du xeron and Bernoult ${ }^{+}$, exclaim at the injuftice of our conquefts but who ever afferted that conqueft was founded upon juhte ? The Portugtefe, the Hollanders, and the French were all intrudersuon fie natives, to the extent of their ability, as well as: the Britifh. "India no age fince the irruptions of the Tartars:" and Mahomedans has known any power, but the power of the ford; and great as the ufurpation of the Etropeans may have, bechy it was originally founded in neceflyy, It is not my wifh to juinify the exeefs"; but there are nations, whom there can be no intercourfe twithout a pledge for the fecurity of the merchant. The Portuguefe, "upon their fret arrival at Calicut," could not trade but: by fore : it was in', coilequence of this necefty, that all the Europeans demanded or extoxted the liberty of erecting forts for their factories', and thas privilege, once granted, led the way to every encroachnient which enfued. IT notice this, becaufe the fame danger produced the fame eflects from the beginning. fo will appear fromthe Periplâs, that the Arabians in that age had fortified their factories on the caifl of Africa, and the Portuguefe hiftorians:

[^3]mention the faine precamon ufed in the rame country by Arabs in the age of Gana. From ohs Aender origin all the conguens ch the Europeans in Indathave taken their rife, till bey have grown gnto a confequence which it was imporme to forese, and which it is now tmpombe to control No naton cannabandon tsomquefs wiftout rum ifor it is not "only poitive fabtraction from" one fale, but preponderaticy accumathed the oher" Naporer can be withdrawn "from a Gngle province, but that it would be ocoupied by a ryal upan the infanto Noming temans but to moderate an evil which canot be rethoved, nd to regulate hé
 querore as much the onquered for is ma mam neyer to be *orgoten, that the portaguete lon by ther avarice the empire, they had acquired by their valour; but of this too much :-our prefent: bufinefs is not with the refift of difgevery, but trongin.

Voyages are now perrormed to the mon dinant rgions of the world without any interventige dificulties But heordhary hazard of the fea. 'In the ancient world the cafe was yery "different: a voyage from 'Thefaly to the Phafis nas an akbievenent which confecrated the fame of the adventurers by a memorial in the Heavens, awd the paffage frem the Nediterranean into the Atlantic Ocean was to the Phenicians a fecret of fate.

The reality of the Argonautic expedition has been queftoned; but if the pamordial hiftory of everry nation but one is tinctured with the fabulous, and if from among the reft a choice is hecefary to be made, it mun be allowed that the traditions of Creece are lefs inconlitent than thofe of the more diftant regions of the earth. Oricntal learning is now employed in una avelling the mythology of

## PRELIMINARY DISOUISITIONS.

India, and recommending it as containing the feeds of primeval, nifory buththeito we have feen nothing that flould induce us to telinquid the authorities we have been wed to refped, or to make us prefer the fables of the Hindoos or Cuebres to the fables of the Greeks. Whatever difficulties nay occur in the return of the Argonats, their paflage to Colchis is confiftent it contains more real geography than has yet been difcoyered in ang record of the Braitins oo the Zendavelta, and ts, tuth itfelf, both geographical and biloorical when compared with the portentous expedition of Ran's to Ceylon; it is from confiderations of this fort that we mut fitil refer our firl kowledge of India oo Grecian fources, rather than to any other; for whatever the contents of the Indian records may finally be found to tave preferyed, the firfic pention of India that we have is from Greece, and to the hitorians of Greece we nut till refer for the conmencemett of our thquities, their knowledge of the country was indeed imperfect, even in their, latef accounts, but ffill thetrery eatien lhew that hida had been heard of or fone country like Tadia in the eaft a glimmering towads day is dif coverable, Honer, Herodotus, and Cuêtias obfure indeed, as all kow wedge of tis for was, previous to Atexander, but yet fuffient to prove that India was always an daject of curiofity and andity

## HOMER.

Tir The father of poetry naturally the firt objec of our asegard, his writing contain the bitory, the manders, and antiquites

of his cotntry; and though his information apon the point prom pofed may be problematical, ftill nothing that he has towched is unworthy of attention. When he conducts Neptunc ${ }^{6}$ into Etniopia, he feems to place him in the centre between two nations both black; but both perfeety diftinguiged from each other; and he adds, that they lyed at the oppofite extremities of the world eaf and weft; Tet us then place the deity in Ethiopia dbove the Cataracts of Syênè, and let a line be drawn eaft and welt, at tight angles with the Nile; will it not immediately appear that this hine cuts the coaft of Nigritia on the wet, ath the peninfula of India on the caft? and though it naxy be decmed enthufafm to affert, that Homer confdered there as his two extremities, and placed his two Ethiopick nations in thefe tracts, which are their actual vefidence at prefent, fill if is not too much to fay, that the ceritre he has affumed is the mot proper of all others, that the diftant Ethiopians ${ }^{8}$ to the eaft of it, are lndians, and to the weft, Negroes. Thefe two fpecies are perfectly diftinguifhed by their make, by their features, and above ill by their hair ; whether. Homer knew this characterifick difference does not admit of proof, but that he







See the note upon this paffege in Pope's tranflation of the Odyfies, where he adduces with great propriety the teltimony of Strabo, to prove that a! thofe nations were accomnted Ethiopians by the early Greeks, who lived upon the Southern Ocean from eaft to welt; and the authority of Ptolemy to Mow, "that
"t under the modiack from eaft to weft, in"habic the Ethopians black of colour.". The whole pafiage in Strabo, and the yarious reading of Ariftarchus and Crates, are well worth confulting. Lib. i. p. jo.


 Lib. ii. p. se 3 . it is not probethe that Humer knew India at all, certainly not as India, but as Ethiopia.

[^4]knewr
knew they were of a fepate, race is undenable, and that he placed them eat and wettat the extent of his kowledge, is an "approximation to truth and conffent with thermactul pofticn at the prefent borm.

## HERODOTUS

If. Tredifinction which Homethas not marked is the fre chrumfance that occurged to Herodotus ; he mentions the eaftern Etfiopians confidered as Indians, prad differing from thofe of Axtica exprebly by the characterifick of long hair as oppofed to the woolly head of the Cafre. We may collect alfo, with the affitance of the manination, the diftinct notice of three forts of natives, which concefpond,"n fone degree wh the difterent rpecies whid have intabited thiscountry in alloges. The Pade on the nor , who are a fage people refembling the tribes which are Atil foupd in the northem mountains, mixed with Tortars perhaps land approaching to their maners; a fecond race living far to/the routh, not fubjec to the Perfan empire and who abotain from all animal fool y , under this defcription we olainlv

## o Iib. vii. p. 54 I.

$\therefore$ io the fituation of the Pader wepe afcertained we might inguire about the manners attributed to"them. by the hiforita, ${ }^{\prime}$ but he mentions only fome tribes that live upon the marfies formed by fly ryer (that is, pyobably the Indus), and then the laded to the caft of thefe; this places them, on the north of tuana; as to all appeaiance the marlhes noliced are thofe formed by the raps in the Panjeab, but how far eaft beyond this province we are to fix


#### Abstract

 Hergdotus had received any teport of the nations north of the Inmmaly Mountains, or clfe fould offer a conjecture to the Ori. entalifs; whether: Padë, 'cenverted into Pudei, might not allude to Budtan; for a and id are convertible, as is eviacent in Multan, which is oniy another form of readjeg Multan for Maltan or Mallitan, the country of the Malli. ${ }^{x 2}$ Lib, iii p: 243.'


difcover the real Hindoos; and a third inhabiting Pactyia and Cafpatyrus, whof tefemble the Bactrians in their mannets, drefs, and arms, who are fubject to Perfia; and pay their tribute in gold; thefe, whether we can difcover Calfatyrus or not, are evidently the fanne as thofe tribes which inkabit at the fources weft of the Indus; who never were Findoos; but poffefs a wilh mountainous country; where their fafteffes qualify them for a predatory life, and where they were equally femidable to Alexander, to Timour, and Nadir Shah ${ }^{7}$; they relemble to this day tye Bactrians, as much as in the time of Herodotis, or rather the Agwhans in their neighbourhbod; and are as lrave as the pne, and as ferocions"as the other. Thefe tribes it is inote neceflary to mark, becaufe it will prove that the Perfians neterfwere mafers of India propery fo called, but ef that country obly which is at the fource of the Indus. Whether they penetrated $b$ yond the main Atream, that is the Indus or the Attock itfelf, muft bu let in doubt; but Pactyia, according to major Rennell, is Penkelis and if Cafpatyrus be the fame as the Cafpita" of Ptolemy, there is fome ground for fuppofing that city correfondent to Maltan, Whould. thefe conjectures be confirmed by future inquiry, it wond prove that the Perfans did pals the Attock, anip were really maftirs of the Panjeab and Multan's and the tribute which they receivid, equal to half the revenues of the empire, affords fome reafon for fuppofing this to be the fact. Much depends upon the iffue of this inquiry, becaufe the Attock, or forbidden river, has been the reftern boundary of Hindoftan in all ages; if the Perfians paifed it, India

[^5]
## PRELIMINARY DISQUISITIONS: SG

was tributary to them; if they did not, the tribes weft of the Attock only were fubjected, and they were never Hindoos, however efteemed fo by the Perfians. Another circumfance dependent on this inquiry; is the royage of Scylax, faid to have commenced from Pactyía and Calpatýrus, and to have terminated in the Gulph of Arabia. There are two inconfiftencies in the report of this voyage by Herodotus; the firf, that he mentions the courfe of the Indus to the eaff ${ }^{3}$, which is in reality to the fouth-weft: the fecond, that he fuppofes Darius ${ }^{14}$ to have made ufe of the difcoveries of Scylax for the invafion of India. Now if Darius was matter 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 fucceflors ever availed themfelves of it; for any naval expedition." The Perfians were never a maritime people. Hiftory no where fpeaks of a Perfian fleet in the Indian ocean, or even in the Gulph's of Perfia; "and in the Mediterrandan, their fea forces always confifted of Phenicians, Cyprians, or Egyptans.

Far is it from my wilh wantonly to difcredit any hiforical fact fupported on the teftimony of fuch a writer as Herodotus; but there

[^6]Bactria; but $I$ hare never been able to difcover, that the Perfian Darius of the Greeks, or his father Hytafpes, can be identifice with the Bactrian Gufhtafp of the Zende or Oriental. writers; and I fee Richardfon in the preface to his Perdian Dictionary afligns no real antiquity to the Zende of Anquetil da Perron.
${ }^{5}$ I fopeak of a nary, not hups for trade.
are infuperable diffeultise in adnutting this voynge of Scylas or that of the Phenicians round the continent of Affica; the greatet of all is, that no confequences acerted from either : That tierodotus received the accomt of both from Perians or Egyphans; is mixdeniable; that they wexe performed is a very different conderationi. 1 do not dwell upon the fabulous part of his account of hatays because even his fabide" have a foundaion fact but I caniot believe from the ftate of thavigation to that age, that Scylay could perform a voyage round Arabia, from which the bravef bficers of Alexander Hrunk; or "that men who had explored the defert coalt of Gadeofa, Gould be lefs daring than an unexperienced trative of Caryandan They renined with amazenent from the fight of Muffendon and Ras-alhad, while Scylax fucceeded without a diffenty upor record. But the obfacles to fuch a waye are numerous, frif, whether Pacy ya be Peukell, and Catpatyous, Mal tan: fecondlys if Darus were matter of Multan, whether be couta: fend athit, or a flee, down the Indus to the fea, thpough tribed

[^7]тatragecax, lib. Mir, "248"quod popalo"uns terfo pequaquam objicicadron eft, fedorigimen

 Heautontimoreumenis, "t cane tpon nitiat priaciphes" account for the greater paxt of the fables mputed to Megathenes, Dainachus; Onesicritas: Etch Wilford explains Ctefas's fable of the Martichora:
$\because$ Not all indeed, for his voyage of Therculestọ Scythia is mext mythology. 1 do not ufe this to difored the woyage of , Scylax , my obiget,its to riark-fable as fablo, and to felect the truths mixed with it for obicration, Sce: Herod, librivy p. as-ed. WefR
where Alexander fought his way at eyery fiep: thirdly, whether Scylay ${ }^{\text {t3 }}$ had any knowledge of the Indian Ocean, the coaft, or the monfoon: fourthly, if the coaft of Gadrofia were friendly; which is doubtul, whether he could proceed along the coaf of Arabia, which muft be hoftile from port to porte Thefe and a variety of other difficulties 's, which Nearchus experienced, from famine; from want of water, from the build of his veffels, and from the: manners of the natives, mut induce an incredulity in regard to the Perfian account whatever refpect whe may have to the fidelify of Herodotas.

## CTESENS.

V. Next to Herodotus, at the difance of little more than fixty year, qucceeds Cteflass. Hé refded a confderable time in the court of Perfia, and was phyfician to Artaxerxes Maemon. What oppor tunities he had of obtaining a knowledge of India nut have been accidental, as his tables are almof proverbial' and his traths very few; his abbeviator Photius, from whofe extractso only we have

- "tys That there was fuclura perfon as Scylaxs that he was it Indiás gnd that his acciount of that, country, was extatat, appiears frora Arif-
 tion', booln iv. pi 2to $_{4}$, Yelearn likewife fröm Lat. cherr; that the Baroh de Sainte Croix defends the wort which now bears the name of Scylax as' genuine, in' a differtation read befyre the Acadeny of Furcripticns; butt Ekiow not whe ther that didertation be pubililhed. Sece Lar--
 jection- its authenticity, which is bis mentign Africa, Sec idib. d...p. $32 \ldots$
p. 35 : for there is great doubt whether Rher teum was in exitence in the time of the reat
Scylax.; and of India, he fars nothing in the treatife now extant...
: 29 Strabo fays, Pondonius dibolieved this whole hiftory of Scylax, though he bclieved the yoyage of Endoxus, lib. in: P. reo., The fact is, there were fo many of the ve voyages protended, and fo fow performed, that the beft judges did not know what to belicve; ityabo.
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 tnarvellous. The editor ${ }^{20}$, 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 eftimation he affigns it; but we are not bound to adrit his fable of the martichora, his pygmies, his men with the heads of dogs and feet reverfed, his griffins and his fourfooted bitds as big' as wolves. - Thefe fictions of imagination indeed are fill reprefented on the walls of the Pagodas; they are fymbols of mythology, which the Bramins pointed out to the carly vifitors of India, and became hiftory by tranfinifion.

The few particulars appropriate, to India, and confitent with truth, obtained by Cteflias ${ }^{22}$, are almoft confined tol fomething refembling a defcription of the cochineal plant, the fly, and the beautiful tint obtained from it, with a genuine picqure of the
 of fixing fwords ia the ground for this pur.
monkey and the parrot; the two animals he had doubtlefs fren in Perfia, and flowered cottons emblazoned with the glowing colours of the modern chintz, were probably as much coveted by the fair Perfians in the Harams of Sufa and Ecbatana, as they fill are by the ladies of our own country.

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

The Macedonians, as it lhas been thewn in former work; obtained a knowledge both of the Indus and the Ganges; they heard that the feat of empire was, where it always has been, on the Ganges; or the Jumna. They acquired intelligence of all. the grand and leading features of Indian manners, policy; and religion: they difcovered all this by penetrating through countries where polfibly no Greek had previoully fet his foot; and they explored the paffage by fea, which firf opened the commercial intercourfe 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 Flope.

It matters not that the title of fabulifts is conferred upon Megaf"thenes, Nearchus, and Onesícritus, by the ancients; they publiflied more truths than falfehoods, and many of their imputed falfehoods are daily becoming truths, as our knowledge of the country is improved. The progrefs of information from this origin is materi-
ally connected with the object we have propoied, and it cannot be deemed faperntuous to purfue it through the chatu of authors who maintain the connegtion till the difcovery of the paflage acrofs, we ocean by means of the monfoon.

Megafthenes and Daimachusz' had been fent as embaftadors fromi the king of Sria to Sandrocottus and his fuccefor Allitrochades the capital of Inda was in that age at Palibothra, the fituation of which so tong difuted is funally fixed, by Six Whath Jones, at the junction of the Saone and the Ganges., Thefe embaffadors, therefore, were refident at a court in the very heart of India, and it is to Megaftenes in particular that the Greeks are indebted for the beft account of that country. "But what is mof peculiarly remarkable is; that the fables of Ctefas wre till retained in his work, the Cynocéphali, the Tigmies, and fimilar fables were Ailt afferted as truths " It is for this reafoth that Strabo prefers the tefung of Evatothenes and Patióles; though Eratofhenes was refident at Alexandria, and nevey vifred India' at all; and though Patrocles never faw any part of that country beyond the panjeab, fill their intelligence the thinks preferable, becaufe Eratonthencs: had the command of all the information treafured athe Horaxy of Alexandria; and Patiocles was pofilfed of the materials whith wore collected by Alenander himpelf, and which had been communitated to him by Xeno the keeper of the archiyes.
It in inconceivable how men could live and negotiate on a camp on the Ganges, and bring home mporibities as truth how

[^8]Megalthenes

Megathenes could report that the Hindoos had no ufe of letters ${ }^{24}$. when Nearchus had previoufly noticed the beautiful appearance of their writing, and the elegance of character, which we fill difcover in the Shanlkreet ${ }^{23}$; but the fabulous accounts of Cteflas were repeated by Megafthenes, profeffedly from the authorty of the Bramins; and whatever reafon we have to complain of his judgment or difcretion, we ought to acknowledge our obligations to him as the firt author who fooke with precifon of Indian manners, or gave a true idea of the people.

It is not poffible to enter into the particulars of all that we derive from this atthor, but the whole account of India, collected in the fifteenth book of Strabo, and the introduction to the eighth book of Arrian, may jutly be attributed to him as the principal fource of information. His picture is, in fact, a faithful reprefentation of the Indian character and Indian manners; and modern obfervation contributes to eftablifh the extent of his inteligence, and the fidelity of his report.

This frupce 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 infpection of travellers and embaffadors, or by the voyage down the Indus, the Macedonians feem to have

[^9][^10]D 2
attained
attained, with fingulax attention, and, noturithftanding particular errors, to have conveyed into Europe with much greater accuracy than might have been expected:
$\because$ The voyage of Nearchus opened the pafage into India by fea, and obviated ehe difhcalties of penetrating into the eat by land, which had previouny been an infurmountable barrier to knowledge and communication." But it is to Onesicritus as we trace the fint mention of "Tapróbana, or Ceylon, "and what is extraordinärys the dimenfons he has affigned to ity are more conformable to truth. ${ }^{27}$; than Prolemy had acquired four hundred years later, and at a time when it was vifited annually by the fleets from Egypt; but on this fubject more will beraid in its nroper place.

## IAMBULUS.

V1. The nention of Cetlon vaturall intraduces us' to the voyage of Lambălus, ", becaufe, fabulous' as hisoccount is, it is nall moft


#### Abstract

${ }^{26}$ To Onesícritus only, if we follow Strab ${ }^{\circ}$ or Pliny, vi. 24, who, he fays, mentions ele phanits there larger andinore fit for war than elfewhere, a truth to this day: Megathenes notices a river, "gold and pitarls, and that the" people are called. Paleogoun. Eratolthenes. feems to hate entarged upon the fize given it by Gnesicritus, for mintend of 625 nules, he fays, de is 875 miles long, 62 5 broad : In Pliny's age the noth câtera frode was grown to $t 250$ miles, and the error was always on the increafe till the time of Ptolemy", Pliny adds; that Rachia [Rajah] was the head of the embaffy to Rome, and" that Rachà"s fas ther had vifited the Seres. One indidental circumftance Leems to mark Arabian irtercomrle previous to the vegage of Annius. Plocanus's freed mañ. Regi, cultum Liberi Pa-


[^11]probably
probably founded on fact, and becaufe Diodôrus has ranked ir as , hiftory.

Lucian ${ }^{2 p}$, perhaps, formed a better judgment when he clafed him with the writers of fiction; for his account of the Fortunate Iflands and of Ceylon ftand almoft on the fame ground; the circumference of the Inand he feems to give at five thoufand ftadia from Onesícritus, and the navigation acrofs the ocean from Ethiopia he derived from the general knowledge that this voyage had beenperformed, or imputed, from a very early age; his departure from Ceylon to the Ganges, his arrival at Palibothra, and his intercourfe with the king, who was an admirer ${ }^{30}$ of the Greeks, may be referred to Megafthenes and Daimachus, while his fictions of impofibilities are all his own. Notwithfianding all this there are fome allufions to characteriftick truths, which though they do not befpeak the teflimony of an eye-witnefs, prove that fome knowledge of the ifland bad reached Egypt, and this at a time previous to the difcovery of the monfoon; for lambúlus muft be antecedent to Diodôrus, and Diodôrus is contemporary with Auguftus. It is this

[^12]fungle circumfance that makes it requifite to notice fuch an author. The truths' alluded to are, I. The ftature of the natives, and the Aexibility of their joints.: Th. The length of their ears, bored and pendent. . III. 'The perpetual verdure of the trees. IV. The attachment of the natives to altonomy: V. Their worthip of the elements, and particularly the fun and moon. VI. Their coton garments. VII. The cuftom of many nam laying one wife in common, and the children being entitled to the protection of the partnerfip. (This practice is faid by Paolino ${ }^{31}$, to exift fill on the coaft of Ceylon, and is apparently conformable to the mannerg of the Nayres on the continent.) VIII. Equality of day and night. IX. 'The Calamus or Maiz.' And it is fubinitted to future inquiry; whether: 'the particulars of the alphabet may not have fome allufion to truth; for he fays; the charaeters are originally only feven, but by four warying forms or combinations they become twenty-eight.

The chief reafon to induce a belief, that Iambulus never really vifted Ceylon, is, that be thould affert he was there feven years', and yet that he fhould not mention the production of cinnamon. There is no one circumftance that a Greek would have noticed with more oftentation than a difoovery of the colat where this fpice "grew; but lambulus, like the reft of his countrymen, if be knew the produce, adjudged it to Arabia, and never thought of this leading truth, as a fanction to the contruction of his fable; he is defcribed by Diodorus as the fon of a merchant, and a merchant himfelf, but poffefed of a liberal education. In trading to Atabia

[^13]miftaken on claffical queftions, but fill it is a
learned and infructive work, $p$. 37 '...
for
for fpices, the was taken prifoner and reduced to flavery; he was cayried 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 cafe his reaching Ceylon would be the leaft improbable ${ }^{32}$ part. of his narrative. 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. Thefe truths could have been obtained only from report in the age of Dicdôrus ${ }^{33}$, and the wonder is, that it contains a circumftance dependent on the monfoon, of which Diodorrus 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 feene is laid in Arabia, and the paffage is made from the coaft 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 Auguftus cannot be a fiction, and the embaffadors muft have failed from India, either on board Arabian fhips, which frequented their harbours, or in Indian vefels which followed the fame courfe. All this is previous to Hippalus, and the whole taken together is a

[^14]fhe will be caught by the monfoon, and carried. over to the oppofite contiment. To accidents of this fort we mar impute a bery early difcovery of the monfoons by Arabians or Ethiopians, long before itippalus imparted it to the Greeks and Romans.
${ }^{93}$ Harris or Dr. Campbell are my precurfors in this examination of Iambúlus and Aghtharchides. They gave credit to Iambalus. I here give the reafons for my differt.
confirmation
confrmation of an Arabian navigation previous to that frem Egypt. That a novel flould contain hiftorical facts and truthe is natural, and will not be denied by thofe who are acquainted with Helion dorus. Many Ethopick cuftoms are noticed in that work, which are true to this day: After all, the novel of Iambitus is not To furprizing in itfelf, as its exiftence the the page of Diodorrus.:

## AGATHABCHDES

VII. Agatanarchidess the next objeat of pur confderation, is an author of far diferent eftimation ;" He was prefident of the Alexandrian library; and is always mentioned with refpect by Strabo; Pliny, and Diodôrus ${ }^{36}$. His work on the Erythréan or Red Sea, is preferved in an extract of Photius, and, copied almontin the fame terms, but not without intermixture ${ }^{37}$, by : Diodọnus. " Diodorns. indeed profefles to derive his information from the royal commentaties, and original vifitors of the countries he defcribes; buif that he copies Agatharchides is evidentr, by a compatifon of thits part of his work with the extract of Photius; ors perhaps, con-

[^15]fidering Agatharchides as librarian, he conceived that his work was founded on the commentaries or archives of the Alexandrian depofitory. Strabo ${ }^{35}$ likewife follows Agatharchides in almolt all that relates to Ethiopia, the countries fouth of Egypt, and the weftern coaft of Arabia ${ }^{39}$, or rather, as Weffeling has obferved, with his ufual accuracy, both copy Artemidorus ${ }^{49}$ of Ephefus ${ }^{42}$, who is the copyint of Agatharcides..

It is neceflary to pay more attention to this author, as he is apparently the original fource from whence all the hiftorians drew, previous to the difcovery of the monfoon; his work forms an epoch in the fcience, and when Pliny comes to fpeak of the difcoveries on the coalt of Malabar in his own age, and adds, that, the names he mentions are new, and not to be found in previous writers; we ought to confider him as fpeaking of all thofe, who had followed the authority of the Macedonians, or the fchool of Alexandria, of which, in this branch of fcience, Eratofthenes 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 altronomer and mathematician than a geographer, and is honoured with the title of furveyor of the earth ${ }^{42}$, as the firf aftronomer who mealured a degree of a great circle ${ }^{43}$, and drew the firlt parallel of latitude, the fublime attempt on which all the accuracy of the fcience depends.

[^16]It appears from Strabo and Pliny; that Eratofthenes fyeaks or 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 leaft as drfant as the godeni Cherfonele of Malacca, ) found its way into charts more early than Eratonthenes, will be confidered in its proper place ; but his knowledge of Meroe or Abyyfinia is derived from Dalion, Arifocreon, and Bion, who had Been fent by Philadelphus, or his fucceffors, into that "country, or from Timofthenes ${ }^{44}$, who fatled down the coaft of Africa as low as Cerne ${ }^{45}$. This information concerning India muft be deduced from the Macedonians, bur his information is confined on the fubject of Oriental commerce; the fpherical figure of the earth feems to be the grand truth he was defirous to eftablifog, and his geographical inquiries were perthaps rather the bafis of a fytem, that a delineation of the habitable world.

Agatharchides, according to Blair, maft, though younger, have been contemporary with Eratofhenes; he was a mative of Cnidus in. Caria, and flourihed 177, A. C. But Dodwell ${ }^{46}$ brings him down much lower, to 104, A. C. which canthardly be true, if Artemidorus ${ }^{47}$ copied his work, for the date of Atemidorus is attributed to ro4s, A. C. alfo, the fame year which Dodwell gives to Agatharchides.

[^17]Thefe dates are of importance, if we aflume the work of Agatharchides as an epoch, which in fact eremis to be, and the principal duthority for the fubfequent hiftorians prepious to the difcovery of Hippalus, has worl it is by me means neceffary, to vindicate in all its patts, bat it contains miany peculiar traths ${ }^{48}$ confirmed by modern experience, and the firf genuine clataperificks of AbyfAnia that ocecur it biftory.

Some of theie circumftances though not connected with the purpofe before us, cannot be fuperflyous, as they contribute to eftablift the crodit of the worl: thefe are, T. The gold mines worked by the Ptolemies on the coaft of the Red Sea; the procels; the fufferings of the miners; the tools ${ }^{49}$ of copper found in them; fuppofed to have been wed by the native Egyptians, pricr to the Perfian conqueft In In Merge, or Abyflipia, the hunting of clephants, and hamftringing thems the fefh cut out of the animat alive ${ }^{20}$. III. The fly', defcribed as the fcourge of the country in

[^18]По
 aivтаро́artac

49 A very extraordinary fact, and fusilar to what has happened in our own age. A ccordaivig to Col: Vallancy;' fourd in the mines; in 1rcland whicla he fuppoles to be Phenician; and others haye beea found in the mines in Wales, which are cerw tainly Roman.
jo Strabo allo mentions the Kgerepspons which perhaps intimates caterg of razu gefh, and the excifio fueminarun, in a paJage where be feems to be conying A gatharchides or Artemidorus. The original here does not fpecify the feff froin liviogoxen, but clephants, See Strabo, tike xphe pot.
the fame manner as by Bruce. IV. Something like the enfete tree of Bruce. V. Locuits defcribed as food. VI. Troglodytes. ": VII. The rhinoceros, the camelopard, apes ${ }^{\text {s }}$ frangely called fphinxes"; the crocotta" or hyena; feveral other minute paniculars might be chumerated, but not wirhout a tincture of the fabulous.

His account of the coaft is,our more immediate concern ; this commences at Arsínoè, or Suez, and goes down the weftern coafis of the Red Sea to Ptolemáis Thêronn ${ }^{3}$, it mentions Myos Hormus, but takes no notice of Berenícè. The particulars of this navigation are very fcanty, but fill one fact is fubftantiated, that the ordinary courfe of trade carried on, went no lower than Ptolemáis, and was confined more efpecially to the importation of elephants.

Ptolemáis is the Ras Ahehaz of d'Anville, the Ras Ageeg of Bruce, in latitude $18^{\circ}: 10^{\circ} .^{33}$ and full three hundred and fifty miles fhort of the ftraits of Bab-el-Mandeb. A proof that whatever Ptolemy Philadelphus had difcovered of the coaft of Africa, it was now little wifited by the fleets from Egypt, but that there was fome fort of commerce is certain; Strabo cites Eratoithenes ${ }^{54}$ to prove that the paftage of the ftraits was open, and Artemidorus, to fhew the extenfion of this commerce to the Southern Horn; of this there weill be

[^19]
#### Abstract

and without hair. Ad Plin. lib. vi. See. the Krokotas on the Paleftrine marble, which I am not naturalift fufficient to appropriate. ${ }^{52}$ So called from $\Theta_{n \xi} \alpha$, becaufe the elephants were here hunted and taken; they are fo ftill according to Bruce, and belory this cape, de la Röchette places the commence. ment of a vaft foreft, feen by all veffels whick. keep this" coaft. ${ }^{53} 18^{\prime} .7^{\prime}$. de la Rochette. ${ }^{34}$ Lib. xvi: p. 769.


frequent occafion to fpeak hereafter, neither ought it to be omitted, that perhaps Agatharchides knew the inclination of the African coaft beyond the ftraits, for he notices its curvature ss to the eaft, [which terminates at Gardefan,] and which is apparently the boundary of Kis knowledge in this quarter; but our immediate bufinefs is with the coan between Myos Hormus and Ptolemáis, and here the firf place mentioned is the Sinus Impurus ${ }^{56}$, which admits of identification with the Foul Bay of our modern charts, from the circumftances mentioned by Strabo, who fays, it is full of thoals and breakers, and expofed to violent winds, and that Berenice lies in the interior of the bay ${ }^{57}$.

Below this, Agatharchides, or his abbreviator, afford little information, for we are carried almoft at once to two mountains, called the Bulls and Ptolemáis Thêrôn, without any intervening circumftance but the danger of thoals, to which the elephant thips from Ptolemáis are expofed: of thefe thoals there are many about. Suakem in de la Rochette, though Bruce denies the exiftence of a. fingle one on the whole weitern coait of the Red Sea. The geo. grapher, however, is more to be depended on than the traveller, as is proved by the misfortunes to which fome of our Englifh veffels have been expofed, which verify the affertions of Era-. tofthenes, Artemidorus, and Agatharchides.

At Ptolemais the account clofes, as if there were no regular: commerce below that point; but its exiftence has been evinced by: what is here faid, and will be farther confirmed from the Adulitick.

[^20]marble in its proper place; but the total fitence of Agatharchides ${ }_{3}$ in regard to Berenice, unlefs it be an omiffion of his abbreviator, is ftill 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 goverament than under the Ptolemies. The accounts extant are all Roman; from Fliny, from the Itinerary, and from the Peutingerian tables; but the Greek authorities may have perifhed, and Strabo mentions two different flates of thefe roads; one from Coptus to Berenícè as it was' firt opened by Philadelphus, and another from Coptus to Myos Hormus, after it was furnifhed with wells and refervoirs, and protected by a guard. Are we then to think that this, sfter being opened, ras negleated again, when Agatharchides wrote? or are wee to fuppote that Berenícè is comprehended in the mention of Myos Hormus ${ }^{\text {s? }}$ ? for Berenícè is no harbour", but an open bay, and the fhips which lade there, lie at Myos Hormus till their cargo is ready. However this may be, the account of Agatharchides returnis agrain from Ptolemáis to Myos Hormus, and then, after paffing the gulph of Arsínoè, or Suez, croffes over to Phenícôn ${ }^{60}$ in the Elanitick Gulph, and runs down the coaft of Arabia to Sabêa. In this courfe of great oblcurity, there is no occafion at prefent to purfue 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

[^21]

 різи,

* De la Rochette places Phenicón at Tor, But thia will be confidered hereafter.

Ee colleded from other geographers will ise adduced, in order to ducidate the narrative, which is the fref genuine account of Arabia that is extant Neither is it unworthy of notice, that the Periplus تrfelf is confucied upon the plan of Agatharchides; it goes down the weftern coat of the gulph in the fame manner, then returns Back to Myos Hormus and croftes over to the eatern fide, and purfues that line to its conclufion; the difference between the two confifts in the difference of knowledge in the refpective ages. Agatharchides defcribes the trade as it ftood in the age of Philow métor. "The Periplûs carries it to the extent it had obtained under the protection of the Roman emperors; but both fet out from thefame point for both voyages and it is only the extenfon of the line: which confitutes the difinction.

But it is our immediate bulinefs to proceed to the country of the Gabeans, called Arabay the Happy, from its wealth, its commerce, and its produce, either native or imputed. This province anfwers generally to the modern Yemen, and the Sabeans of our author's age pofeted the key to the Indian commerce, and food as the intermediate agents between Egypt and the Eaft. This is a moft valuable fact, which we obtain from this work, and clouded as it. may be with nuch that is dark and marvellous, the truth appears upon: the whole inconteftably; Certain it is that the wrealth affigned to this. wation is a proof of the exiftence of a commerce, whicb has enriched: all who have ftood in this fituation, and equally certain is it that: the information of the author ceafes at the fucceeding ftep.

Sabêa, fays Agatharchides, abounds with every prodaction to make life happy in the extreme; its very air is fo perfumed with wdours, that the nativesi are obliged to mitigate the fragrance by
fcents that have a oppofite tendericy; as frattire could not rupport cven pleafure in the extreme Myrr, frankincene, balfan, cinna mon, and cafa are here produced fron trees of extroodinary magnitude. The king, as he is on the one hand entiled" to fupreme: honow, on the other is obliged to fubmit to confinement in his palace, but the people are robuft , warlike, and able maniners, they fall in very large veffels to the country: where the odoriferous commodities are produced, they plant colonies there, and mport from thence the larimna , an odour whe we elfe to found; in fact there is no nation upon earth fo wealthy as the Gerrhêt and Sabêt, as being in the centre of atl the commerce which pafes ${ }^{\times 3}$ between Afia and Europe. Thefe are the nations which hate enricked the Syria ${ }^{64}$ of Ptolern'; there are the nations that furnif the mof profitable agencies to the induftry of the Phenicians, and a variety. of adrantages which are incalculable. They poffefs themfelves every profufion of luxury; in articles of plate and fculpture, in furniture of beds, tripods, and other houfehold embellifhments; far faperior in degree to any thing that is feen in Europe. Their expence of

[^22]the richce of Sabee, and does not go to the White Sen, and the particulars of the fun mentioned by Diodorus and Photius. In the former part Diodorus is more expanfive and intelligible than Photius,
 c. 2. where mention is made by Harris of Ptolemy's building Philadelphia on the fite of Ratiab of the Ammonites, which might liave fome relation to Syria. But I cannot belp: fuppofing that vepiat is here a falfe readingIt ought to be the kingdom of Ptoleny, and not the Syria of Peolemy.
living rivals the magnificence of princes ${ }^{\text {ss }}$. Their houfes are decorated with pillars gliftening with gold and filver. Their doors are crowned with vales and befet with jewels; the interior of their houfes correfponds in the beauty of their outward appearance, and all the riches of other countries are here exhibited in a variety of profufion ${ }^{66}$. Such a nation, and fo abounding in fuperfluity, owes its independence to its diflance 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 conqueft, and who, if they could find the means of invafion, would foon reduce the Sabêans to the condition of their agents and factors, whereas they are now obliged to deal with them as principals.
'From this narrative, reported almoft in the words of the author, a variety of confiderations arife, all worthy of attention. It is, as far as I can difcover, the firft contemporary account of the commerce opened between Egypt and India, by the mediun of Arabia; it proves that in the reign of Ptolemy Philométor, in the year 177, A. C. and $x 46$ years after the death of Alexander, the Greek Sovereignk 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 Berenicè was not ufed for this commerce, but that.

[^23][^24]Myos Hormus, or Arsínoè, was ftill the emporium. It proves that there was no trade down the coalt of Africa (an intercourfe afterwards of great importance) except for elephants, and that no lower than Ptolemáis Thêrôn. It fhews that the voyage down the Arabian coant of the Red Sea was fill very obfcure, and above all it demonftrates inconteftably by the wealth conftantly attendant on all who bave monopolifed the Indian commerce, that the monopoly in the author's age was in Sabêa. The Sabêans of Yemen appear connetted with the Gerrhêans on the Gulph of Perfia; and both appear connected with the Phenicians by mears of the Elanitick Gulph, and with the Grecks in Egypt, by Arsinoè and Myos Hormus.

I am not ignorant that the eftablifhment of a trade with India is attributed to Ptolemy Philadelphus ${ }^{57}$, that the immenfe revenue and wealth of Egypt is imputed to this caufe, and that a number of Indian captives are mentioned by Athenêus, as compofing one part of the fpectacle and proceffion, with which he entertained the citizens of Alexandria. But this laft evidence, which is deemed conclufive, admits of an eafy folution; for Indian was a word of almoft as extenfive fignification in that age, as the prefent ; it compreheided the Cafres of Africa, as well as the handfome Afiatick 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 proceffion, they were obtained in Sabêa: The Arabians dealt in flaves, and the Greeks

[^25]
## PRELIMINARY DISQUISITIONS. 35

might find Indian flaves in their market as well as any other. Huet, Robertfon, and Harris are all very defirous 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 difcovery of Hippalus, fully acknowledge, that all proofs of a more early exiftence of it are wanting; no contemporary author afferts it: and the teftimony 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 itfelf carries all the appearance of genuine truth, and copied as it is by Strabo and Diodôrus it obtains additional authority ${ }^{68}$. 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 circumftance of his work which Photius has preferved, that flips 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 ditinct from the communication between Egypt and that country.'

In regard to the infux 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 Sabêans were poffeffed of the monopoly between India and Egypt, fo Egypt would enjoy the fame monopoly between Sabêa and Europe.

[^26]The confumers, indeed, muft bear the burden of this double monopoly, but the interniediate agents in both inftances would be gainers, and the profits, while the trade was a monopoly, would be, as they always have been, enormous. The fovereigns of Egypt were well apprized of this, and fo jealous were they of this. prerogative of their capital, that no goods could pafs through Alexandria either to India or Europe, without the intervening. agency of an Alexandrian factor.

In the defcription which Agatharchides gives of Sabêa there is nothing inconffitent with probability; but this is the boundary of his knowledge towards the Eaft, and the marvellous commences at the fucceeding ftep, for he adds, that as foon as you are paft Sabêa, the fea appears white like a river; that the Fortunate Inands flsirt the coaft, and that the flocks' and herds are all white, and the females without horns ${ }^{69}$. If this has any foundation in truth, the inlands are thofe at the mouth of the gulph, if we ought not rather to underftand the ports of Aden and Cana; and the mention of veffels arriving lrere from the Indus; Patala, Perfis; and Karmenia is agreeable to the fyftem of the commerce in that age. A night notice of the different appearance of the conftellations next fucceeds, and then an illuffrious truth, that in this climate there is no twilight in the morning. Other circumftances are joined to this, which miflead; as the rifing of the fun not like a difk but a column; and that no fhadow is caft till it is an hour above the horizon. A more extraorctinary effect is.added, that the evening;

[^27]twilight lafts thret hours after fun-fet. Thefe circumftances are introduced to excite the attention of the modern navigator; for notwithftanding they may be falfe, fill there may be certain phênomena that give an origin to the fetion.

If it thould now be inquired how the commerce with India could be in this flate fo late as the reign of Ptolemy. Philometor, or why the difcoveries of Nearchus had not in all this time been profecuted? the anfwer is not difficult. The fleets from Egypt found the commodicies of India in Arabia, and the merchants contented themfelves: with buying in that market, without entering upon new adventures. to an unknowin coali.. There is every reafon to fuppofe that Sabêa had been the centre of this commerce long prior to the difcoveries of Nearchus, and the age of Alexander ; and it is highly probable: that the Arabians had even previous ${ }^{\circ}$, to that period ventured acrofs 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 fo obvious as by means of Arabia and the Red Sea. The track of Arabian narigators, is undoubtedly marked along: the coaft cf Gadrofia, before Nearchus ventured to explore it, for the names he found there are many of them Aiabick; and if conjecture in fuch a cafe be allowable, I thould fuppofe that they kept along the coaft of Gadroila to Guadel or Poffem, and then flood out to fea for the coaft of Malabar. My reafon for fuppofing this, is, that Nearchus found a pilot at Poffem, which implies previous:

[^28]cident, he mould readily find the means of returning by an Arabian velfel, he would like-' wife learn the nature of the monfoont. Sce Bruce, voL i. 369.
navigation, and adds. that from, that cape to the Gulph of: Perfia the coalt was not fo, obfcure as from the Indus to the cape: ${ }^{\prime}$

But "f Nearchus reported this, or if the commentaries in the Alexandriad library contained any correfpondent information, how could Agatharchides be ignorant of the navigation beyond Sabêa? ; He was not ignorant of Neatchus's expedition, for he mentions the ICthyophagi: of Gadrofia; with many circumftances .evidently derived from.. Nearchus, and others added, partly fabulous perhaps; and partly true, from other fources. of intelligence, fuch as the hitories, journals, or commentaries in the library:

He mentions exprefsy the manner of catching fifh, as delcribed by Nearchus, within netsextended along the fhoals upon the coalt ${ }^{2 x}$, 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, andmodes of life; and one circumm Aance he records, which he codld not haye extracted from Nearchus, which is that beyond the fraits, which feparate Arabia from the oppolite coal, (meaning, perhaps, the entrance to the Gulph of Perfia, ) there are an infinite number of fattered intads vety finall, and very low, and extended along the fea which wafles India and Gadrofia, ${ }^{72}$, where the natives have no other means of fupporting: life but by the turtles which are found there in great abundance.

[^29]and of a prodigious fize. I have thought it neceffary not to omit this circumftance, becaufe it appears to me as the firt notice, however obfcure, of the Lackdives and Maldives ${ }^{73}$, called the iflands of Limýticè in the Periplûs, and difinguihed particularly as producting the fineft tortoife-fhell in \%the world. The mention of them by Agatharchides appears to be the earlieft intimation of their exiftence. In that fenfe the fact is curious, and confiftent with the purpofe of the work, which is at prefent to thew the progrefs of difcovery, as recorded by contempozary authors.

The extravagances or improbabilities which contaminate feveral parts of this account in Agatharchides, have been difregarded by den fign; where linowledge ends fable commences, and much lenity of judgment is due to all writers whofpeak of diftant countries for the firt time, or by report. This author does not difinctly mark his Ịthyóphagi." They are not merely thofe of Gadrofia, but others alfo apparently on the coaf of Arabia or Africa ${ }^{74}$. Regions; it is true, where fill rather than bread has ever been the ftaff of life, and where it continues fo at the prefent hour. Let any reader 'adyert to the manner in which he fpeaks of the paffage out of the Red Sea into the ocean', and he cannot fail to oblerve, that by giving the African coaft an eafterly direction, without notice of its falling down to the fouth, the commerce of that day had not yet paffed cape Guardafui,

[^30]Single fhips ${ }^{75}$, or a few in company, might have doubled that promontory and ftood to the fouth, and others of the fame defription might even have reached India. Some obfcure accounts from thefe were poffibly conveyed to Alexandria, and from that fource might have been recorded by Agatharchides, but thefe are all very different from his defcription of Sabêa, and comparatively vague or obfcure. Of the trade to Sabêa he fpeaks diftinctly, as a regular eftablifhed commerce; fo far his knowledge was genuine, beyond that it is precarious. This is an opinion collected from a full confideration of the work itfelf, and to which no one, perhaps, after a fimilar attention would refufe to fubcribe.
It has been thought of importance to detail thefe particulars from Agatharchides, becaufe he is the genuine fource from which Diodôrus, Strabo, Pliny ${ }^{\text {ro }}$, Pomponius Mela, and Ptolemy have derived their information. Diodôrus lived in the beginning of the reign of Auguttus. He has copied the whole of Agatharchides, fo far as relates to the Iethyóphagi, Troglodytes, Ethiopians, and Arabians, in his third book. Strabo who lived to the end of Auguftus's

[^31][^32]Hignthas followed Agathathdes in regard to the hame countries, aninsifucenth book, and has added lixte to our knowledge of Arabia. but the expedtion of Eilus Gallus ineo that country. He has little more exprefs concerning the pavigation down the coaft of Africa, and eativard he, fops at Sabea with his author, On the coat of Gadrofia he has follored Tvearchus more faithfully than Agatharchides, but has no mentioni of the Lackdive Mands and the little he fays of Taprobina, is a proo that it was known By report, but not yet vifted. Pliny and Pomponius Mers in thany decanlue pats tread the frae ground, and copy the fame author:

But if Agatharchides lived under Prolemy uhilometor, it is matural so ank, had nothing becri done during ryo years, towards further difovery by the Reers that faided annaliy from E.gyt? The miver that whatever was done is not reconded, the courte wo difcovery was donblefs in progreffion; but there is a great diffareme betwen effecting the difcovery, and bringige it into gencral Enowledge, or making it a part of hifory: It is poffible, alfo, that the foverfigns of Egypt were more jealous of the trade than am-

TT The Rorinads do"not eppear à commer-. enal propie, isecaufe their great offecers and uteir biftorias aret tov pauch attached to war, and the acquition" of pater, to notice it. All, "therfories that we hear of comerce is DWiguely, but the weatdi of merchants was
 Sce Cicero,' who Fayss 'in contempe indeed, is lich q maio vhb ras a merchant atill neighboity of Scinio, syrater than Scints, becanic he is
 whe fothoved the armips, whe fact in whe

homines, who were agents, traders, and monopoiifs, fuct as fugurtha took in Zama, or the ropo00 that Mathridates flaughesed in Aha Miror, or the merchants killed at Ged wami [Orleana InCefar Bclt. Gall. and you tre the iphit of adyenturc; and the extent of commerce at a fange glancen. (See allo the Letters of Ciew er whle proconfol of Cilicia) Dn . Camptell, ia his Polticat Survey, has proved their nonduch an this matior in remand io. Bitain, and the pretert work will givea musemmordinaty sucemen of it in Egypt.
bitious of the honour; and the later prince were move likely to cramp commerce by extortion, than to farour if by protection The Phenicians had manifelly a hare in the profits from its commencement, and it was not unlikely that the Remans mishat have felt this as an additional incentive for the fubugation of Egypt, if they lad been fully informed of the means it aforded for addine to the wealth and aggrandifement of the republic.

It is not meant, therefore, to deny the extenfon of the moyages progrefively, either to the eaf on the fouth; for as long as there wras any vigour in the government of Alexandria, the trade on the Red Sea was a favoured object: We leari from Strabo and Diow dôros, ä circumftance not mentroned in Agatharchides, and probably later than his age, that the Nabathêans at the head of tbe gulplz had molefted the Heet fron Egypt by their piracies, and bad been tupperfed by a naval force fited out for that purpofe. This, at the fame time it proves the attention of the Egyptian government to this trade, proves dikewife that the fleets ftill croffed the guph froin Myos Hormus or Bereníce, and did not ftrike downat once to Mûfa or Ocelis, as they did in the age of the Periplus.

This mark of attention alfo adds highly to the probability, that fome progref had been made to the fouth, down the coalf of Africa for there, from the firf mention of it, there feems always to have been a mart for Indian commodities; and the port of Mofylloti, as appears atterwards by the Peripluss was a rival to Sabêa or Hadramant. Mofyllon was under the power of the Arabian king of Mapliartis, in the fame mantier as the Portuguefe found that nation mafters of the coaft of Africa, fiffeen centuries later, and the convenience of thefe poffelfons to the Arabs is felf-evident;

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for as veffels coming with the monfoon, for the Guipt of Perfa make Mafkat, fo thole bound for Hadramant or Aden run down their longitude to the coafe of Africa; bere, therefore, from the earlical pertod that the monfoons were known to the Arabians, perhaps much prior to Alexander, there would be rarts for Indtan commodities; and here it is fighly probable the fleets frome应gypt found them, when the Sabeans were too high in their demands.

That this commerce had taken place foon after the bine of Agatharchides may be collected from Strabo, who cites Artemidorus to prove that there was a trade on the coat of Africa as low as the Southern Horn. He mentions, indeed, that at the fraits of the Sed Sea the cargo was transfrred from thips to bôats or rafts, Which, though it manifefts that the mavigation was only at its commencencont, fill proves it' exiftence. He does not name Mofyllon, but the Peripûs, by noticing that feveral articles were called Mofyllitick, demonftrates, that a commerce had been carried on at that port previous to its own age, and that Indian commodities were foubht bn that coaft before they were brought iminediately from India., "It there were fuch a mart, this mult be a neceffay event, for in the firf inftance the trade of Sabêa was a monopolys. and if the fovereigns of Aden or Maphartis had opened the comm merce, either in their own country or Africa, it would draw a reforr thicher as foon as the port could be known; or the voyage to it be effected. The date of this tranfaction it is imponble to afcertain, but a variety of circumftances concur to fhew that it had raken place previous to the difcovery of the monfoon by Hipe palus.

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62
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## HIPPALUS.

VIII. The difcovery of Hippalus opens a feene entirely new to out contemplation; and if it has appeared that hitherto there are only two fources of information, the Macedonians and Agas tharchides; if it has been fhewn hat all the authoxs between Agatharchides and the difcovery, fpeak the fame language; it will now be fill more evident, that new era commences at this point, and that the Periplus, Pliny, and Ptolemy are as uniform in one fyftem as theif predecefors were in another, previous to the difcovery.

Dodwell has oblerved, with his ufual acutenefs, that it is no proof that the Periplus is contemporary with the age of Pliny, becaufe he mentions the fame fovereigns, in the different countrics of which it treats; for he adde, Ptoleny notices the very fame, Ceprobotas in Limýrice and Pandion in Malabar. He fuppofes, therefore, that the Periplus copied Pliny or Pliny"s authorities, and that the fame princes might be reigning from the time of Vefpalian' to the reign of Adrian. But would not this correfpondence of the three be equally confifent, if we fuppofe them all to have but one fource of information? Dodwell would fubfribe to this in regard to Pliny and Ptolemy; whofe age is known, but he refufes this folution to that of the Periplus, the date of which he choofes 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 difcovery of Hippalus with precifion. It is certainly fubfequent to Strabo whofe
death is placed ${ }^{78}$, anno 23 . P. C. for Strabo who was in Egypt with Elius Galius muft have heard of ir , and to all appearance it muft have been later than the accident, which happened to the freedman of. Annius Plocamus, who, while he was collecting the tribute on. the coalt of Arabia, was caught by the monfoon and caried over to the illand of Ceylon. This happened in the reign of Claudiuss. under whom Plocamus was farmer of the revenue in the Red Sea, The reign of Claudius commences in the year 4 T of our êr, and ends in $54^{-}$. Let us affume the middle of his reign, or, the year 47, for this tranfaction, and as Pliny dedicates his work to Titus. the fon of Vefpafian, if we take the middle of Velpafian's reign it coincides with the year $73^{7}$. This reduces the face for inquiry within the limits of twenty-fix years. From thefe we may detrace: the firf years of Vefafian, which were too turbulent for attention to commerce, with the twro. Years of Galba, Otho, and Vitellius; Nero reigned fourteen, and in the early part of his reign, or the: fix laft of Claudius, the date might be fixed with the greateft probability, becaufe, if we fuppofe the return of the freedman of Plocanus, the embafy that accompanied him, or the knowledge he acquired to be a caufe; or in any degree connected with the difcovery, this, pace confined to about ten years is the mof confitent of all others, to allot to this purpore ${ }^{80} \therefore$ Another fast connected: - with this is, the profufion of Nero in cinnamon and aromaticks,

[^33]- at the Tuneral of Poppea*. An extavagane, wapton as it is which befpealos fomething like a diree mportation of the material. And we are filewife informed by hiny, that he fent two centurions from Egypt up into Efilopia to obuin a Enowledge of the interiop; an faquiry naturally athached to the diecoveries on whe coaft.

The uriat date fatroned to the difovery of Thppales is the reign of Claudias i Dodwell arid Harris are beth of this opinion', and the later, or rather Dr. Camploll his editors has treated this fubject for ably, that if it were not receffary: for the diluftration of the work before ms, would hawe been fuffecent to refer to This inquines, rather tham to tread the ground again which he has oceupied: Let us affume then the feventhyear of Claudish ${ }^{32}$ antwering the therty-feventh of the Chintian era, for the difoyery of: Bippalus, and the next object of inquiry will naturally be the dat: of the wrotk which we are to examine.

## AGE OF THE AUTHOR CF:THE PERELUS.

IX: Tex learned Dodwd and Salmafius affix two very different' dates to the Periplus, and between two fuch able difputants it is. eafier to chufe than decide. My own obfervations lead me to prefer the opinion of Salmafiss but not: fo peremptorily as to

[^34]${ }^{82}$ Dodwell fays, in primis annis Cladii; and fuppeles that Pliny takes his account of Hippalis froin a work which Claudius hinfext wrote gettain it is,', that the memory of Claudius was revered by the Alexandrians, and: not improbably by reafon of this difcovery and. the profecution of it.

Suppofe the queftion cleaned of all its difficulties, and there is a hint dropt by Dodwell, that I fhould wifh to adopt, if I were nor conwinced that the author of the Feriplûs really vifited feveral of the countrics he defrribes.

Dodwell fuppofes that the work was compiled by fome Alexandrian ${ }^{83}$ from the journal of Hippalus; and fo far it is juft to. allow, that the parallel information in Plinty and the Periplus does not appear to properly to be copied by either from the other, as from fome authority common to both. But that the author, what-ever he copied, was a navigator or a merchant himfelf, cannot be denied, when we find him fpeaking in the fret perfon upon fome occafions, and when we read his account of the tides in the gulph of Catubay, which is too graphical to come from any pen but that: of an eye-witnefs.

This author and Pliny agree in the defcription of Hadramant ${ }^{84}$ 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 leets from Occlis and Cana, and a variety of other circumftances; but their moft xemarkable correfpondence is in their hiftory of the Spikenard and Coftus ${ }^{\text {s }}$; both mention the Ganges

[^35]
Tus collectum Sabota camelis convehitur porta ad id unâ patente, digredi vià capital. Plin. Salmal. 492.
ss Pliny, lib. wit. c. 12. Ed. Hard. De folio Nardi plura dici par eft ut principale in Unguentis. ...alterum cjus genns apud Gangem nafcens; damnatur in totum, Ozranitidis nomine, virus redolens.-The firft is the Gangitica of the Periphos, written allo Gapanica. The latter

## PRELTNINARY:DISQUISITIONS.

Ganges and Ozene as the mars ror me former, and the Fattane for the latter. The thelligence is udoubtedly the fame in both, and yet there is no abolute prof that either copied from the other. But thofe who are acquated with minys method of abbeviation wonld much rather conchude, if one mutbe copyol, that his title to this office is the clearet, Wherever tre can trace him to the authorities he follows, we find that nanatives are contracted into ar fugle fentence, and delcripticns into an epilhet. This appears to me fully fuertane in the prefent intance, but conchans of this fort are oot hatily to be adopted.

Pliny perified in the eruption of Vefuvius the fane year that Vefpafian died, which is the reventyninth of our era; and we wace The difovery of Hippolus in forty-fern a mace of thinty yeary is fufficit for the orcumfance of the woyage, and the trate to Te known in Egypts fom thence to Rome the propagation of tntelligence s more naturathan the reverfe Eut we hould be difpofed, with Dodwelf, to carrythe date of the Perplas down to the reign of Marcus and Lucios Verus ; that commencedin 6 ;


#### Abstract

qatterisifrom the Ozenc of the Periplits ; whech Jarduin ts fo far from under thinding, that ike Writés.Ozanitidis ob os orapa, quod odore focdo Thares feriat; The Collus Plimy mentions as obtained at Patala, Primo . Atatim introitu damis Indi in Patale Infula," wherctice Pexpluts  Trich $p$. 32. . If thefe paffages of the Poriplùs Thad food contiguous, ais they do th Pliay; the proof would have beencompletes fcatered as they gre, it is neanty fo. "86, The pafage on the Perphus rims thus:   \$ing of Saphara is upon friendly terme with: the Roman emperors; ăd receses pretenta andembaffes from them: The word catperor's, in the plinal, induces Dodivell to cany down the date till he ineers with two pont ennotors regriug togethen That a pitar dee not Hequre hin we may tearn from: Don phais: Pe:   that Dobrighes Hyed inder the $x$ itanimes but Timy writes, Diouvfom, quen worman  proof that Dionyus Dived wher Augutus.  Dhonlame


and "at the difance of almof a century, its sormpondene with Pung is by no mean equaly confifent.

The frength: of Dodurells argument hes in the report of the Periplus, concerming the detruction of Arabia Felix, or Adens, by the Romans; and the menton of the coalt of Astica berng fubject to the fovereign of Maphattis, ling of the furt ${ }^{5}$. Arabia The the of figf or fecond amexed to a province, is a divfion which eertainy fecins of later date under the emperors, than any period that would fut the ryaem of Santafixs ; But there is reaton to fuipect the text, or the rendering of it; and no authonty which appears fufficient to prove that the territory of Maphartis ever twas a Roman province in any ases or even if it might be fo called, as being tributary, no yeafon can be given why it mould be ditinguifhed as the firlf:

In regard, to the detruction" of Aden by Cefar, the author of the Periplus fays in happened not long before : his time. But What Cefar this Gould be is a great diffculty. Dodwell, who fuppoles that it muft be by fome Cefar who deftroyed it in perfon, can find to emperor to whom it can be attribited prior to Trajan. But Trajan never was on the fouthern coaf of Arabia; he entered the country from the Gulph of Perfia, but never penetrated so. the fouthern coaft by land, ard never approached it from the Gulph of Arabia. Ir is much more juft, therefore, to conclude that Aden ${ }^{\text {ga was deftroyed By the command of Cefar, than by }}$
 d'Anville, from its fituation, which is cer-
 other cheumances mayde damed. Many robabities compte


FTe Roman, frome the they fint ented stablander


 extend then gower down the ghpa, ont to the portsof the
 mus was in treactof collempe the moterate whene was parried out to foa frowe add this the dacomato Hypug in the fame reigns we find a better rearon for the deftration of oden at this time thatat any other, Aden had ben one of bta great mart Gor the Indan commerce, and yf chachis, our the: prefect of Egrp, was now difpode approprate this trade to hhe Romans, this was arficienteaxe far mang Aden, on oxerto fuppers rivals or interlopets The jealonfy ox oppofton of Aurpa to the new difcover would outurat y ifola ground for gutre, and ifnothe Romatsmew how toporokeone whenever at med theirinctef.

Theeronfiderations are offered as a probable anfwer to the

 detemped that the age of the Pexplus mut be thatof Macus and Lucius Vers, he is oblige to fuppofe that the author cold not have feen the work of Polemy, whonivedth the reign of Adrian Now the realons for eftablifing the prionity on he


OTarner Talp:?



 where" "at a ftooger, follows, the Perpitus" tyles Ceylory Pale fruntur atd ades tet the froe inand as the ancients called Tapobanan But in the the of Polemy it badacqued atho

 Who whes alehmadas mun te prior to the athtre who wites Gate Dodweh, order obote this ferfendentrith, in the true fint of fytem, necentute to arbuct that the nuthor of the

 who was a Roman and then to fopote the frange hyotheris; he is compelled"to mantant, that the Patemundus of Ploy is not Ceylon, or the Taprobana the ancents, but the mapocura of Wheny on the cort on whabat tow the alfertons could be

 Dut we nownow that Satice is derwed fron Salablas the Shan-
 coumty of Patherion or the than Bachus Both are bative mans, and yoyager but derent wees acquad both fron the

[^36]natyes. When the inand of Ceylon comes under contidenation Th the courfe of the natative, more will be faid on the fubjec, a prefent this "is" awple proof, that the merchants in the age of the Guthor called Ceylon Ralefmüuduy, and that he Ptolemy's age it was: Ayled Satice ; if Ptolemy then allows the former to be frat in ufes the Periplass muf of neceffly be prior to his publicathone:

Dodwell fays ${ }^{\text {th }}$, that none of Ptolery's aftronomical obfervations are carlier than the ninth year of Altan, andeering to $13.3 \mathrm{~A} . \mathrm{D}$. If then the firt yeir of Marcus and Lucius Verus Is $16 \mathrm{~m}, \mathrm{~A} D$. We ada neary forty years to the antiquity of the Periphos a one "fep, it coud not be later than 123 , and how muck earlier mutt be the next object of our inguiry:- On this head probability and conjecture mun fupply the place of proof. The autkor spaks of the difcovery of Hppalus, without pecifying its. date, or its diftance from his own time. Sone confiderable iuterval is manfef from his exprefion, when he ajas, aftom the tme of Hippalus to this day fome fail ftaight from Kane, 8co but but what pace to allot to this tnterval is by no meato evidenty From The feventh of Clatidis, the affurned epoch of the difcovery, to the nith of Adrano, is ferentyelght years, a pace in which we majx fit the publication of the Periplas, fo as belt to fuit with other circumances, and there is one reafon to fix it conlderably previous


[^37]
information
information from the merchants of Egyp, and the Periplus feems to be the yery work he would have confulted, if he had known it, and yet one circumftance is fufficient to prove, that it never came under his contemplation. His error of extending the coaft of Malabar welt, and eaft, inftead of north and fouth, is notorious this he could not have dome if he had confulted the Periplus, for there it is laid down in its proper direction. "This induces a bellef," That it was not publifhed in, or near the age of Ptolemy, but fo much prior as to be neglected, or from its compafs and contents not to have obtainedi much notice at the time of its publication. It is not eafy to account for Prolemy's difregard of it on any other ground, unlers he knowingly flighted it, and preferred the accounts of later voyagers.

But in order to fee the fate of things faitable to the internal evidence of the Periptus, we muft take a wieve of the Roman government in Egypr Egypt became a Roman province in the Year thirty before our era, and from the moment it was fubdued, Auguftus planned the extenfion of the Roman power into Arabia and Ethiopia, fuppofing that Arabia produced fpices, and Erhopia, gold, bechufe thefe were the articles brought out of thole countries into Egypt: The avidity with which this plan was alopted may: be conceived by oblerving that, within ten years after the reduction of Egypt, Gallus had penetrated into the heart of Arabia; and Petronius had advanced eight hundred and feventy miles above Wyenc into Ethiopia, and reduced Candácè the queen of that country to the condition of a tributary.

The expedition of Petronius is fxsed to a certainty in 25 , A. Cecaufe the embaffadoss of Candácè found Augufus at Samos

Samos, where he ras that yeat; and that of Gallus s\% won temporaty, becaufe his abfence thth apt of the toops of the pronne was the inducement for Gandace to mult the ofemment. And it mult have been but a very few yeats aftet this, that Strabo went up to: Syetie whth Elits Gallus wor whe the becone prefect. Upoz this oneafon he oberres, that he fras infomed an hurdred and twenty fhips how fanled from Myos Homus annaly for India, whereas, under the Polentes, acy few onk hat dared to nomertake that royage

The enbafies froti Poras and Dandion to Augufus mentioned with fo much oftentation by the hiforians, afford confiderable proof of the progrefs of Roman difcovery in the eaftand the veffels Which conveyed the embaffadors from the coalt of Malabar mun have landed then either in Arabia, or in the Gulph: of Perfajor the Red Sea; the conveyance alfo of the fredman of Plocamus back agair from Ceylot to Egypts proves that the voyage was performed previous to the difcovery of Hippaluse Agreably, therefore, to the aflertion the Periphes we ought to fuppofe that none of thefe conveyances were performed by means of the thonfon, uilefs we flould allow the vefrels to be Indan or A abian, for both thele rations appear vifibly to have known the Dature the te wind long before the Rotrans were acquanted with them: From the cercantances we may colleg the extreme defire of Augufte to exterid his koowledge and his powe towards the eatt, and though the anert refo of Tiberigs, or the wid tyanny of Cadiguta, furnifh no docunants of a further progreds,

[^38]we naf" conclude, that the prefets of Egypt were fan intent on promoting a difcovery once commenced, and with which the emoluments of their ow governimene were to immedately connected. We muf fuppofe, that the Roman fleet was fuperior In the Red Sea, and on the fouthern coalt of Arabia, before any of the powers oin that coaft could become tributary, and tributary they indubitably were before the reigh of Claydius, or Plocamus conid not hate been farmer of the revenue.

When the freednan of Plocamus returned from Geylon, if he came in a Roman veffel he mult have cóated his whole yoyage; but as the king of Ceylon fent four embafadors with hin to Claudius; and a rajah ${ }^{\text {cos to ta take charge of the whole, we muty conclude that }}$ they came in an Indian veffel to Arabia, and that the freedman learned the nature of the monfon in the courfe of his navigations: this is to near in point of time, that we cannet be wiftaken in fuppofing it, connected with the attempt of Hippalins, and in confequence of the revolution the whote courfe of Oriztal: commerce.

The adpantage which Claudino mane of the dicovery, and the profecution of it fo beneficial to Fogpt, rendered les name dear to the Alexandaans; his writugs were reheafed th the mutcum, ard the account he gave of this conmerce is jullyy belleved by: Dodwell to be the fource of Pliny's saformation ${ }^{\text {sci }}$.

It is this circumfance whiol above all others numes ine to fix the deftruction of Aden under Claudius, or at latef uader Nero, whofe:

[^39]mind was equally fixed on Ethopia, Arabia; and India, as the fountains of all the treafures of the eaft. The more important ever $y$ ftep grew in purfuing this commerce to the fource, the greater emptation there was to fupprefs every power which could come in competition: One thing is evident, Aden was not deftroyed by any Cefar in perfon; for we cannot find in all hiftory a Cefar that ever vifted the fouthern coaft of Arabia. If it was by the command of Cefar, it fuits no one fo well as Claudius or Nero, or if they are too early, there' is no other but the reign of Adran to Which it can be attributed Adrian was in Egrpt himfelf; his fyftem was all direted to regalation and improvement of the provinces, this might be a part of his plan. But there is nothing in the Periplus itfelf to make us adopt this period"and much to contradiat it,

It has been neceflary to inveftigate this fact with accuracy, becaufe the date of the work depends upon it $;$ for at whatever point we fix the defruction of Aden, very near to that we muf fix the Periplûs; as the author intimates that it was not long before the period which he wites. It is not fatisfactory to leave chis queftion reftig upor probabilities only. But where hifory is filent, probability is our only guide, and correfondent circunfances are the bef foundation of probability.

From thefe premifes the reign of Nero appears moft accordant to the internal evidence of the work indelf or if the reign of Adrian hionld be preferred, it muft be the year he was in Egypt; which is the tenth of his reign, and anfwers to the year 126 , A. D. The objection to this is its concidence with the age of Ptolemy, which for the reafons already fpecified can liardly be

## PRELIMINARY DISQUYSITIONS.

reconciled to confiftence. I affune, therefore, the reign of Claudius for the difcovery of Hippalus, and the tenth year of Nero for the date of the Periplôs, leaving the queftion fill open for the invefigation of thofe who have better opportunities tos deciding upon its precifion.

## INTERCOURSE WITF INDIA ANTECEDENT TO HISTORY.

: X. In entering upon this fubject two confiderations prefent themfelves to our view, which muft be kept perfectly feparate and dintinct : the fret is, that the intercourfe itfelf is hiforical; , the fecond, that the means of intercourfe can only be collected from circumflances: the former adnuits of proof; the latter is at beft hypothetical. I can prove that fipices were brought into Egypt, (which implies their introduction into all. the countries on the Medicerranean, and I argue from analogy, that Thebes and Memplis in their refpective ages were the centre of this intercourfe, as Alexandria was afterwards, and as Cairo is, in fome degree, even at the prefent hour.

That fome Oriental spices came into Egypt has been frequently afferted, from the nature of the aromatics which were employed in embalming the mummies "*; and in the thirtisth chapter of Exodus we find an enumeration of cinnamon, callia, nyyrrh; frankincenfe, flace, onycha, and galbanum; which are all the produce either of India or Arabia. Mofes feaks of thefe as precious, and appropriate to religious ufes; but at the fame time in fuch

[^40]"quantities ${ }^{\text {ces }}$, as to thew they wexe neither very rare, or yery diffcult. to be obtained. Now, it happenis that cinnamon aud callia are two fpecies of the fame Tpice ${ }^{108}$, and that fpice is not to be found nearer Egypt or Paleftine, than Ceyion ${ }^{106}$, or the conit of Malabar, If then they were found in Egypt, they mut have been imported: there mult baye been intermediate carriers, and a communcation of fome kind or other, even in that age, mult have been open between India and Egypt. That the Egyptians themifelves might be ignorant of this, is poffible; for that the Greeks and Romang, as late as the time of Auguftus ${ }^{10}$, thought cinnamon the produce of Arabia, is manifeft from their writings. But it has been proyed from Agatharchides, that the merchants of Sabê traded to India, and that at the tinie. when. Egypt poffeffed the monopoly of this trade in regard to Europe ${ }^{\text {we }}$, the Sabèns enjoyed a fimilar advantage in tegard to Egypt. Of thefe circunftances Europe wast ighorant, or only imperfectly informed; and if fueh was' the cafe in fo late a periọd as 200 years before the Chriftian êra, the fame circumitances may be fuppofell in any given age where it may be neceflaxy to place them.
There are but two poflole means of conveying the comnodities. of India to the weff, one by land through Perfia or the provinces ton the north, the ofher by fea; and if by fea, Arabia muft in all

[^41]
## PRELIMINART DISQUISITIONS

ages have been the medium throrgh which this commerce paffed, whether the Arabians went to Malabar iffelf, or obtained thefe atticles in Carmania, or at the mouths of the Indus:

In order to fet this in its proper light, it is neceffiry to fuppore, that the fices an the mof Fouthem provinces of India were known in the moft nothern, and from the north, they might pass by land; from the fouth; they would certainly pafs by fea, if the fea were navigated. But in no age were the Perfians ${ }^{\text {sog }}$, Indians, or Egyptian's, navigators; and if we exclude thefe, we have no other "cloce but to fix upon the Arabians, as the only nation which could furnifh mariners, carriers, or merchants, in the Indian oceán.

But let us trace the communication by landon the north: it is onty in this one inftance that 1 hall touch upon it and that only becaule it relates to an account prior to Mofes. Semiramis ${ }^{\text {to }}$ is faid to have erected a coltimn, on which the immenfity of her conquelts was defcribed, as extending from Ninus or Ninive, to the Itámenes (Jomanes or Jumna,) eatiward ; and fouthward, to the country whith produced myrrh and frankincenfe; that is, eaftward to the interion of India, and fouthward to Arabia. Now, fabulous' as this pilit may be, and fabulous as the whole hiftory of Semiramis may be, there is till a degree of conffency in the fable; for the traditlon is general, that the Allyrians of Ninive did make

[^42][^43]an irruption into India; and the return of Semiramis ${ }^{\prime \prime}$ through: Gadrofia, by the route which Alexander afterwards purfued, is noticed by all the hiftorians of the Macedonian. If, therefore, there is any truth concealed under this hiftory of Semiramis, the field $l$ is open for conceiving a conftant incercourfe eftabliched between India and the Affrian empire, and a ready communication between that empire and the countrics bordering on the Mediterranean. This intercourfe would account for the introduction of the gums, drugs, and fices of India into Egrpt, as early as the 21 ft. century before the Chiqaan era and 476 crars antecedent to the age. of Mofes.

But this is not the leating character in the accounts left us by the Greek hiftorians ${ }^{243}$; they all tend to Phenicia and Arabia, The Arabians have a fea coaft round three fides of their vaft penin-. fula; they had no prejudices againt navigation either from habit or religion.. There is no hiffory which treats of them, which doas: not notice them as pirates or merchants by fea, as robbers or traders by land: We fcarcely touch upon them accidentally in any:


#### Abstract

23. When two fables of twa different count tries agree, there is always, reaion to fuppofe that they are founded on truth; the MahaWhat is perthaps as fabulons as the hiftory of Semiramis; but this work (in Col. Dow's. account of it, ). Specifies, upon a variety of eccafions, the great attertipn of the Indian forercigas to pay their tribute to their weffern conquerors. I cannot trace this to ats caules. or confequences, but it alyays feems to juftify the idea, that there had been fome cońqueft of India, by the nations which whabited thate


provinces: which afterwards compofed the Perfian empire. It is this conquef intwhich the Grecian accounts of Semiramis and the Maxhabhárat agree.

122 Semiramis, A. C. $20070^{\circ}$ Mofes in Midian Is 3 I: Blair.
${ }^{2} 13$ Herôditus, lib. tii, p. 250. reckons up fankincenfe, myth, caffa, cinnamion, Tadanum, (a gum,) and foras as the produce of Arabia : thefe commodities were brought into Girece by the Phenicians.: See allo p. 252 .
author, withour findiug that they were the carriers of the Indian ocean:

Sabêa ${ }^{\text {244 }} ;$ 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 reafon to inxagine that they were equally $\mathrm{fo}_{\mathrm{o}}$. before the hiftorians acquired a knowledge of them $\mathrm{a}_{2}$ as they have: fince continued dowin to the prefent age:

It is furely not too much to admit that a nation with thefe difpoftions, in' the very earlieft ages crofled the Gulph of 'Perfia from Omain ta Carmania: the tranfit in fome places is not forty miles; the oppolite coaft is vifible from their own fhore ${ }^{115}$; and if you once land them in Carmania, you open a paffage to the Indus, and to the weftern ceaft of India, as a conclufion which follows. of courfe,

I grant that this is wholly hypothetical ; but.where hiffory ftops;tsis is all that rational inquiry car demand. The firft hiftory to: be depended on, is that of Agatharchides. He found Sabềa, or Yemen, in poffeflion of all the fplendour that a monopoly of the Indian trade mult, ever produce, and either here or at Hadramant or Oman jit muf ever have been: thefe provinces all lie within the region of the monfons, and there is every reafon to imagine that they had ayailed themfelves of thefe in the earlief ages, as well! as in the lateft. I conclude that their knowledge in this refpect is. prior to the building ef. Thebes; and that if the monopoly or the:

[^44]seaftern fude of the Red Sea was in their hands, thate on the weftern fide was fixed at Thebes. The fiplendour of that city . fill wifible in its yery ruins, in no other way to be accounted for in is exacty parallel to the cafe of Alexandria in a later period; for Alexandra did hot trade to India the monopoly wis fill in Sabêa when 'Agatharchides wrote,' and the monopoly' at Alexandria was as perfect in regard to the Meditetranean,' as that: ©f:Sabè was mix regard to the Indian ocean. The wealth of the Ptolenties was as pre-eminent as that of the Theback Dymaties, and the power and conquets of a Philadelphus or Euergetes ${ }^{2 y} \%$ ed s abulous than Thoré of Sefonchofis.

That the Grecian Dynaty in Egypt tried every experiment to evade the monopoly at Sabê, is manifet from hiftory. The ftraits ${ }^{327}$ of the Red Sea were pafled, the ports of Arabia on the ocean were explored, the mats on the coats of Africa were vilited, Indian commodities were found in all of them. "A proof direct, that the monfoon was at that time known to the Arabans.", though hifory knew nothing of it thl the difcovery of tripalus, that is, till 200 years later: this is the more extraordinarys as the fact had been afcertained in part by the voyage of Nearchus, and as all th conifequences would have been explored, if Alexánder had lived another year "I arwy wih to be underfood as never aflerting

[^45]that the voyage between. Egypt and India was utterly unpractifed by the Greess; the evidence is clear, that fome few veffels performed it, but they coated the whole way ${ }^{2 r}$ a the greatell number is that mentioned by Strabo of an hundred and twenty finps. The expence of: fuch a navigation did not anfwer; is was found cheaper to purchafe Indian goods in the old markets: the pallage by the monfoon was never attempted; and the folitary fact, of all hifory; which I can difcover; previous to Hippalus, is, that in the fabulous account of Iambutus. 1 believe that tact, not as. peyformed by Mambulus, but as an: evidence that fome fuch pafage had been heard of, that an obfcure notion prevailed that it was made from the coaft 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 itts rife from Arabian; and it is one proof among others, that the Arabians did reach India. prior to hitory; and a fafficient reafon why the Greeks found it: cheaper to purchafe their cargoes in the Arabian markets, rather: than to go to India themelves. "A truth certainly, if the Arabians failed with, the monfoon, and the Greeks coafted the whole: poyage.

There confiderations taken in the mafs, induce a belief that in the very. earlieft ages, even prior to Mofes, the communication. with India was open, that the intercoure with that continent was: in the hands of the Arabians, that Thebes had owed its fplendour:

[^46]to that commerce, and that Memphis rofe from the fane cafe to the fame preminence. Cairo fucceeded to both in wealth, grandeur, and magnificence; all which- it mult have maintained to The prefent hour, if the difoveries of the Portaguefe had not changed the commerce of the world; and which it does in fome proportion itill maintain, as. a centre between the eaft and the Mediterranean. 'The effential difference between thefe three capitals: and Alexandria, proves paft contradiation, the diffent foint and fuperion fytem of the Greeks Thefe three cantals were inland for the fake of fecurity a proof that the natives never were navigators or fovereigns of the Cea. The Greeks were both; and the capital of the Ptolemies was therefore Alexandria, $\therefore$ Theirfleets wore fupexior to all that had ever appeared on the Mediterranean: and the power or heir kingdom fuch, that nothing but a fuccefion of weak and wicked princes could have deftroyed it. While Egypt was under the power of its native foycreigns, Tyre, Sidon, Aradus, Cyprus, Greece, Sicily, and Carthage were all enriched by the wade carried on s its ports; and the articles of commerce which could be obtained there and there only; the Egyptians themfelves were hardly known in the Mediterranean as the exporters of their own commodities; they were the Chinefe of the ancient world, and the hips of all nations, except their own, laded 'in' their harbours

The fyftem of the Ptolemies pras exacty the reverfe: Alexandria grew up to be the firft mart of the worid, and the Greeks of Egypt were the carriers of the Mediterranean, as well as the agents, factors, and importers of Oriental produce. The cities which had sifen under the former fyftem, funk fllently into infiguificance; and
fo wile was the new policy, and fo deep had it taken root, that the Romans, upor the fubjection of Egypt, found it more expedient to leave Alexandria in poffefon of its privileges, than to alter the courfe of trade, or occupy it themfelves. Egypt, in frict propriety, was never a Roman province, but a prefecure, governed, not by the fenate but the emperor himfelf. No pretor or proconfill cree had the command; no man above the equettian order was ever piefect; no Roman ${ }^{20}$ ever ertered the country without the exprels licence of the emperor. The fe circumftances are particularized to hew the wifdom of the Greeks in their cfablifment of the fytem, and the wiflom of the Romans in contening themfelves with the revenue, rather than the property of the conntuy ${ }^{23}$. This revenue, amounting to more than three millions ferling, they enjoyed for more than fix hundred years ${ }^{122}$; and till the moment of the Arabian conquet, Alexandria continued the fecond city of the empire in rank, and the firf, perhaps, in wealih, commerce, and profperity.

Thefe connderations are by no means foreign to our purpofe: ir is the defgn of this work to exhibit the trade with India under

[^47] than that of any native or foreign dymaly not mythological; and this Sovereignty, wotwithitanding particular intervals of tyranay, does feem upon the whole to lave been exercifed for the good of the people, which is the end of all government. When Egypt fell, its profperity, though impaired, was probably fuperior to that of any other province of the empire. The revenue I take at a mochion from the calculation of Station, who fays, that under Aulctes, the word of the Fulemies, it: was $2,4^{21}, 875 \mathrm{l}$; but he adils, that the Romans macaged it to numert geatier adyantage, and even doubled it. Stab. H6, xüa, p. 908.
every point of wiew in which it was regarded by the ancients; but if it were not my determination to clole my refearches with the voyage of Gama, I could now hew how a contrary policy Thas brought the richeft country in the wrorld to its prefent fate of, mifery. Policy, I fay, becaufes though the difcovery of Gama mult have injured Egypt, it could not have reduced it to defolation. It is the conqueft of Selin, and a divided power between the Porte and the Mameluks, which has funk a revente of three millions to a cypher ${ }^{\text {a3 }}$ a policy, in fact which has cut dowry the tree to come at the fruit, which is nor content with the golden egg but has killed the bird that laid it ${ }^{124}$

133 There 16 a tribute paia by the Mame power. The exprefion is meart to apply to huks to the Pacha of Egypt, But it neser. that cointy only while under its native fove reaches Confantinople, as there are always reigngs. "As! fubjoct to the Pergana, Macedocharges to fet of againit it.
$\therefore s \rightarrow$ Exception, perhaps, may be taken to what has been faid in regard to the Egyptians neverappeanug in the deditemnean abo naval
nuins, and Romans it furnifhed large feets. This reftriction, onitted in its proper place the racancy of the prefent page allows ne to infert:
$\vdots$

The names of places will be difinguibed 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 appeatance of fingularity.

Marks of tones.

- The accent, as Azănia.

The note when e final is pronounced long or fhort, as Calpe

- The note of a long wowel or diphthong in the Greek, as Oponc, Nêfa, Niloptolemèon, Kuenion.


## THE

## PERITLUS

## OFTHE

## $E R Y T H R E A N S E A$

## BOOK: II.

Iutroduction - I. Myos Hormus m- II Berenicè - IT: Zulund Nasia gation to Copius - IV. Piolemáas Therön. - V. Aduh, Abjfinia. - VI. Dirre, Syraits of Bab̈ci-Manded - VIN Abalites: VIII. Malco - IX. Mîndû. - X. Mofollon: XI. Niloptale mêon, + XIX Mants, Tapatégè, Daphonna Micront, Mlephas Prom. Rivers, Eilephas, Dapbonana Megan; or Mcannai-XIM Tabai, XIV. Opone-XX Apócopa - XVI. Little Coaf, Grat Coafo-XVIL Seriation Nicón, Seven Rivers. - XVIL, The Neqo Canal or Mombacar-XIX. Rbota, or eutloa. - XX. Menithéfas, or Zanguebar Iflainds. - XXI. Profuin of Polcmy, - XXIK. Menutbias
 dotus. - XXV.Ptolemy - XXVI Difcoveries, of the Portesefey Covilbam, Mürco"Polo - XXVIL. Vorages of Diaz and Gama:xxVII. Arabian Setlers Ancien ond Modern on the Coaf of Zanguebar.

[^48]THE object propoled for confideration in the fecond book is the navigation of the ancients from Myos Hormus in the Gulph of Arabia, to the Promontory of Rhaptum :on the coaft of Africa. " Myos Hormus lies in the twenty-feventh degree of northern latitude, and Rhaptum will be fixed near ten degrees to the fouthward of the equator; confequently we have a fpace of above two thonfand five hundred miles to examine, involved in fuch obfcurity that without recourfe to modern difcovery, the navigaton of the ancients is inexplicable.

The Periplus; which has been aflumed as the bafis of our difquifition, has a clatm to this preference, not only as the mof ancient but the mof fpecific account extant for notwithfanding particular places may have been noticed in treatifes of a prior date, the line of coaft which it embraces is to be found no where previouly in detail; and the circumitances which it particularizes bear fuch a famp of veracity, as to aflure us, that if the voyage was not performed by the writer, it is at leaf delineated from authentic documents.

[^49]I. The

1. The furvey comimences from Myos Hormus, a port chofen by Ptolemy Philadelphus for the convenience of commerce, in prem ference to Arsinoe or Sucz, on account of the dificulty of navigatthg the weftern extremity of the gulph.

The name of this port fhews its origin to be Greek: it fignifies the harbour of the Moule; an appellation which it aftervards changed for the harbour of $\mathrm{Jen}_{\text {ens. }}$ But the former is the more prevaleet, and the latter is reconded by Agatharchides only and his copyifts. Its fituation is determined by three inands, which Agatharchides mentions know to modera naxigators by the name of the Jaffateens, and its latitude ${ }^{3}$ is fixed with litle fluctuation ${ }^{\text {a }}$ $27^{\circ} 0^{\prime} 0^{\prime \prime}$, by d'Anville, Bruce; and de la Rochette. The prefumpo tion in favour of de la Rochette's accuracy is natural, as he had the charts and journals of feveral Englifh navigators before him, and the pofition of the illands ${ }^{4}$ with the indenture of the coaft, is fuch as would fufficienty correfpond with what the ancients called a port Strabo defcrbes the entrance ab obliques, which was perliaps effeced by the fite of the illand at the entrance; and he notices that the mips which failed from Berenice lay at this port nill their cargoes were prepared.
II. The fame reafon which induced Philadelphus to form the port of Myos Hormus, led him aftorwards to the eftablionont of Berenec,

[^50]Myos Hormof.
$\qquad$

with this additional motive; that being in a lower part of the gulph. it facilitated the communication with the ocean, of the coalt of Africa, and lay more convenient for taking advantage of the regular winds within the trats, or the monfoons in the Indian ocean. The plans of Philadelphus, indeed, feen to have been larger than either he or his fuccelfors caried into execution : he had evidently fent travellers to penetrate into the interiorby land, while his Heet was exploring the coaft. Pliny mentions the names of Dation, Arifócreon, Bion and Bafiles ${ }^{\text {s }}$, as vifitors of Ethiopia; and Simonides as refiding five years at. Meroè ; while Tmofheres ${ }^{7}$ went down the coaft as. far; perhaps, as Madagafcar, but certainly lower than the fleets of the Ptolemics traded ${ }^{8}$, or the Roman fleets in the age of the Periplus, The account of Agatharchides, who lived in the reign of Philométor, goes no lower on the weftern fide of the gulph than Ptolemais Therồ; and in his time the commetce feems fo generally to bave fettled at Myos Hormus, that nomention of Uerenice ocens - in the whole work? Under the fuccefors of Plilometor, this


#### Abstract

${ }^{6}$ Plinitib vic co $3 j^{\prime \prime}$. 7 There is fome reafon to heftitem giving credit to Timodthenes, ins the says the Red Sea "xs two days fail acrofs and four days fail in length. Plim. Wh. vi. Hour days (if it be not an error of Pliny's), cannot by:any means fusfice for a courfe of nine lundred miles, See Fragm. Arten. Hudfon, vol. 3. p.' 88 ,

8 This is fimbar to what has happered relative to our owin ditcoverisi Se: F. Drake sinploued the wetern ount of America, to the naith of Cabiforia, whicre no, navigator folYowed bim till almot 2 co. gears afier, when the Taglig, Runims and Spanards, have initerfered with ench' other in Nootka 'Somes. In the farme maniter allo the Corthagian


commerce on the coatt of Africa fettled at Cerne", though Hanno had gone mach farther to the foulh.

- Neither, does Modoms notice it, who wrote, pertapo, andy in the reign of Auguftus, and. followed Agatharchides.' But Strabo is diffale; and be adds one partientiar which may account for the filence of Agratharchides. which is, as we have jult noticed, that Berenizee, though a flation, was no, port. The havour was at Myos Hormus; and the hips lay thete till they came to Berenice for their bading. - The Periphis alfo reens almof to join the two tosether, at the conmancement. of the Arabiaa yoyge.
trade languifhed rather than increaled, nor was it reinvigorated till the conqueft of Egypt by Auguftus.

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

Berenícè, according to the Periplûs, was diftant eighteen hundred ftadia from Myos Hormus, which, if the author reckons ten ftadia to the Roman mile, (as d'Anville fuppofes) 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 eftimates are too fhort, as the diftance from the northern Jaffateen to Ras-el-anf ${ }^{10}$ is little lefs than two hundred and fixty miles Roman. Without infifting upon this, Ras-el-anf is the leading point to fix Bereníce, for this is the Leptè Promontory of Ptolemy, on which Berenícè depends. "The land here," fays Bruce, " after running " in a direction nearly N. W. and S. E. rurns round in fhape of a " large promontory, and changes its direction to N. E. and S. W. " and ends in a fmall bay or inlet." Now this agrees exactly with the pofition affigned to Berenicè by Strabo, in the very inmoft recefs of his Sinus Impurus. It may feem extraordinary', that the name. of Foul Bay ${ }^{2}$ thould appear in our modern charts in this very fpot,
:0 Cape Nole.
${ }^{11}$ From the appearance of Foul Bay, on
de la Rochette's chart, I conclude it to be a
modern nautical name Its correfpondence
with the ancient Sinus impurus is confirmed
by d'Anville as well as de la Rochette. See
his Golfe immonde. And if this is ettablifhed,
recefs of the bay, ought, in my opinion, to de-
termine the queition.

12 Axá9ecgros is rendered improperly by impurus and immuntur. It is literally both here and in the Periphe, p. 12. what we fhould call in Englifh Foul Bay, from the fualnefs of the coatt, fhoals, and breakers. Axásagroy


 xо́дту. Strabo, lib. xvi. p. 7 бg.
and marked with the fhoals and breakers which entitled it to the fame appellation in the time of Strabo. But fuch is the fact, and de la Rochette's chart ${ }^{\text {'3 }}$ gives us a fmall anchorage or inlet in the very bottom of the bay, which he ftyles Minè, or Belled el-Haberh ${ }^{14}$, the port of Abyflinia. Thefe circumftances are farther corroborated by the chart which Mercator extracts from Ptolemy, and by Prolemy's own diftances in longitude and latitude from Leptè. Col. Capper's has fuppofed that the fite of Berenícè cannot be determined, and d'Anville has placed it nearer to Lepte; but in this, it is probable he was determined by the latitude of Syênè, for both are fuppofed to be tropical, and Col. Capper has poffibly not applied his fuperior information to this object. I fix it at the port of Habefh, not from latitude, but local relation. For Syênè is in latitude $24^{\circ} 0^{\prime} 45^{\prime \prime}$, and this port is in $23^{\circ} 28^{\prime} 0^{\prime \prime}$, according to de la Rochette. If then we were to be determined by the tropick, the port of Habefh is more tropical than Syênè. But the ancients were by no means accurate in thefe coincidences. Meroe and Ptolemáis are ftill lefs reconcileable than Berenícè and Syênè ; and yet the refpective correfpondence of the four places was admitted. I am much more led by exifting circumftances than thefe eftimates: a coaft falling in, as defcribed by the original voyagers, and a port found at the termination where it ought to be, tend more to afcertain a pofition when ancient accounts are to be confidered, than aftronomical calculation. But I do not affert the identity, I know the difficulties, I know that the Topaz inland of Strabo is

[^51]dubious ${ }^{\text {is }}$; but as a choice is neceffary, I felect the port of Habefh for Berenícè, and I truft the folution of the problem to further inquiry.
$\therefore$ Both from Myos Hormus and Berenicè, the fleets failed for Africa and Arabia in the month of September; and for India in July ${ }^{17}$; dates which agree adminably with the regular winds, as ftated by Bruce. For, in the firft inftance, if they cleared the gulph before November, they in that month fell in with the wind, which carried them down the coaft of Africa, and which ferved them to-return in May. And in their yoyage to India, failing in July, if they cleared the gulph before the ift of September ${ }^{\text {r }}$, they had the monfoon for nearly three months to perform the voyage to the coaft of Malabar, which was generally completed in forty days.
III. But before we enter upon our navigation we muft examine the previous preparations in Egypt, commencing our inquiries from Alexandria, the head and centre of all the commerce between India and Europe for feventeen centuries ${ }^{19}$.

16 There was a Sapphire, an Emerald, and a Topaz ifland in the Red Sca; all three give rife to much fable and much uncertainty. Strabo's Topaz ifland is the fame as this Serpentine. Whether both names ought to relate to the ifland at Ras-el-anf, I cannot fay. That ifland is the Macouar of Bruce; the Emil or Emerald ifland of de la Rochette, the Infula -Veneris of Ptolemy. Strabo's Topaz inland is lower than Berenice. It may be the modern Zemorgete, the Agathonis Inf. of Ptolemy, but the confufion is endlefs.
${ }^{77}$ See Peripluss 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.
is This is fixed to a certainty by Pliny, who fays, they lailed at the rifing of the DogStar, July 26, and reached Okelis in thirty days, from whence to Muriris the voyage is whally performed in forty days. Lib: vi.
${ }^{29}$ 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 l'tolemies, for their own intereft, might allow others to employ their capital in this trade, and the Romans certainly would not fuffer themfelves to be wholly excluded, ftill the fanding law of the country was, that every merchant muft employ an Alexandrian factor for the tranfaction of his bufinefs; and this privilege alone, with the profits of the tranfport, is fufficient to account for the immenfe weath of thè metropolis ${ }^{20}$, exclufive of all other advantages.

In the latter end of July the annual or Etefian wind commences, the influence of which extends from the Euxine Sea to Syênè in Upper Egypt. Blowing from the north it is directly oppofite to the courfe of the Nile, and prevailing for forty days while the river is at the height of its fwell, it affords an opportunity of advancing againft the ftream, with more convenience than other rivers are navigated in their defcent. With the affiftance of this wind, the paffage from Alexandria up to Coptus was performed in twelve days, which, as the diftance is above four hundred milea ${ }^{22}$, fufficiently' proves the efficacy of the wind that carried them.

Two miles from Alexandria, fays Pliny, is Juliopolis, where the navigation to Coptus commences; an expreffion 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 Alex-

[^52]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 ${ }^{22}$ in its courfe almoft touches Nicopolis ${ }^{23}$, (a city fo called from the vidtory obtained here by Auguftus over the forces of Antony,) and which, by its diftance of thirty ftadia ${ }^{24}$, muft be the Juliopolis of Pliny. It is probable, therefore, that before the time of Pliny, the Cultom-houfe had been removed from Schédia to this place.

It is then by the Canôpic branch, now almof neglected, that veffels paffed up to Memphis, and thence to Coptus: Coptas was a city in the age of Strabo who vifited it, common to the Arabs ${ }^{2 s}$, 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 Bereníce. Upon reference to the map the reafon of this is evident. The river bends here towards the eaft, and in proportion to its inclination fhortens the diftance of land carriage. Coptus is feated almoft in the centre between Ghinnè and Kous. Ghinnè is the ancient Kxnè ${ }^{28}$, and is the modern point of

[^53][^54]communication with Cofeir ${ }^{27}$; the port on the Red Sea, where the fittle commerce which remains is carried on between Upper Egypt and Arabia. Kous arofe in the middle ages from the fame caufe, and became the principal mart of the Said ${ }^{28}$. Thefe three places all Hie on the fame curvature of the river, and all grew into importance at different periods, from the fame caufe; the neceffity of conducting land carriage by the fhortef road.

It has been already noticed, that notwithftanding Berenícè was built by Philadelphus, the route of the caravan thither, and the port itfelf were little frequented, as long as the Ptolemies reigned in Egypt. The firft mention I can find of it is in Strabo, and he vifited 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 firf entrance into the country, to reap the advantages which his. fucceffors had neglected. In the courfe of fix or feven years an hundred and twenty hips failed from this port for lndia ${ }^{28}$; thefe, indeed, were but a fmall part of the whole.

27 Irwin reckons one hundred and fifteen miles from Cofeir to the Nile, vol i. p. 234. Frown rode it on dromedaries in three days.
28 D'Anville, Geog. Anc. vol. iii. p. 33.
29 It has everywhere been fuppoled, that fingle hips did fail both to India and Africa by coafting, previous to the difcovery of Hippalos; it has everywhere been allowed that the Arabians traded to India, and the lndians to Arabia, and probably with a knowledge of the monfoon. But this paffage of Strabo's flands alone as an evidence, that a fleet failed from Egypt directly to India. If it did lail, it mult ftill have contted the. whole way. But might not Strabo, from knowing they brought home Indian conmodities, have fuppofed that they falled to ludia, when in reality they went no farther than Hadramant in Arabia; or Mofyllon on the coalt of Africa; where they found the produce of India?-

I do not approve of contradicting the affertion of any intelligent author, fuch as Strabo; but I recommend it to the contideration of better judges, whether a circumtance of this magnitude ought to be eflablifhed on a fingle paffage. It is alfo to be noticed, that Arabia was fometimes called lndia by the ancients, not from error, but becaufe it was on the other fide of the Red Sca, and becaufe the commoditics 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 wocat Relthiopas, Troglodytas. Hardouin, not. ad Plin, vi. 34. but Hardouin is miltaken, and probably Juba. It is the Iudian Cape and Port, fo called from the Indian trade at Berenice. In what fenfe the flets failed from Egypt to India, will be confidered at large in the fourth book.

The bulk of the trade ftill paffed by Coptus ${ }^{30}$ 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 firf that fpecifies the ftages of the caravan, or gives us reafon to believe that Berenice was the grand centre of commerce. That it was not fo when the author of the Periplûs wrote is evident, becaufe he commences his route from Myos Hormus ${ }^{3 x}$, a proof that he confidered it as the firft port of departure.

Pliny on the contrary never mentions Myos Hormus in the paffage where he details the voyage to India ${ }^{3 i}$, nor does he notice it at all, except once incidentally, where he is defcribing the weftern coaft of the Red Sea ${ }^{33}$. A proof that it was as fubordinate 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 Rayenna ${ }^{34}$. There is no Greek account of it extant but Strabo's, and he vifited the country after the Romans were in poffeffion. His information, therefore, is Roman ${ }^{35}$; it fpecifies particulars of which other Greeks were ignorant; but it falls fhort of what the Romans relate themfelves. He mentions only that

[^55]26
{ } _ { 3 3 } ^ { 3 3 } Lib.vi. c. 33.
34 Lib, ii. p. 755. in ed. Var.' Pomp.
Mcla.
35 Lib. xvii. p. 815.

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Philadelphus
}

Philadelphus opened this route with an army \({ }^{3 s}\), and that as it was without water, he eftablifhed pofts \({ }^{36}\), both for the convenience of thofe who travelled this way on bufinefs, and thofe who conveyed their goods on camels.

If it fhould be thought that this is faid from any defire of amplifying the induftry or penetration of the Romans, let it be obferved, that Auguftus reduced Egypt into a province, in the year 30 before the Chriftian era, and that in lefs than fix years Petronius had penetrated into Ethiopia, and reduced Candácè queen of Neroè 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 Berenícè inftead of Myos Hormus. Thefe tranfactions Strabo relates as an eye-witnefs, for he accompanicd Elius Gallus to Syéne. And in the interval between the conqueft of E.gypt and the reign of Claudius, a period of 71 years, there is every reafon to fuppofe, that a province fo productive, and a commerce fo advantageous, had never been neglected. But it was not till the difoovery of the monfoon, which we place in his reign, that all the advantages of Berenícè would become obvions. This wuld by degrees draw the concourle 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.

\footnotetext{
\({ }^{35}\) The road between Coptus and Myos Hormus he defcribes more particula ly. A proof that it washetter known. It was feven of eight days journey, formerly performed on camels in the night by obfervation of the flars, and carrying water with them. Latterly very
deep wells had been funk, and cifterns formed for holding water, as it fometimes, though rarely, rains in that tract. Lib. xvii. 815 .
 rais.
}

GENERAL MAP of the WORLD acooding to POMPONIUS MELA bVP. BERTIES.


Fublithad acarding to Act of Par-Fiament May 1!'isoo by Dr Finaant.

The andenced table, conthared with the map, will now herw all
 obvious that the names are Greek, we mod fupcie thit tecy are
 lems, howeve unoticed by the Gaek wrikers; or that the Greeks af Egypt wera employed by the Romans tia forming the eftabliam nent. The mention of the Troglodytes agrees with their hifooy, as it has been adminably illufrated by Bruce ; they are the Shepherds fo much noticed in the estly hiffory of Egype who eyery year conduct their flock and herds from the plains of Ethopia, acrofs she mountains of the Red Sea, to avoid the fly, that focurge of their profeflion. They liare done this in all ages; they do it to the prefent hour; their habization is confequently reinporary, and if they found caves \({ }^{3 /}\) or hollows in the rocks, thefe they would occupy, as theit name implies. Tribes of this kind allo arenaturally plunderers, and the guard neceffary to defend the caravan in paffing their country, is correfpondent to the circumftances of their profeflion and fituation. If we add to this the paffage of the mpuntains, evidently marked in Pliny, we have all the particulars that Bruce enumerates; and an evidence of that range, which he has depigted as extending parallel to the conf, fromi the fea of Suez to the main of Africa. Below this range there feems to be a level towards the fea like the Thama of Arabia, and the Ghermefir on the Gulph of Perfia; and I conjecture that

\footnotetext{
\({ }^{37}\) Bruce found Troglodytes aftually hiving Opper Egyet, and the herds paffing at Senin caves in Gojam: be faw thete caveo in narr.
}

Tifetrike, the name which the Periphs give to the tratin the fighbenthod of Berenice, expreffesthis very level, and cowefronds with the Tehana of Arabia:

I have alfeady noticed that Berenice hes nemly in latituder \(24^{2}\). and have now only to add, that by the concurrent cetimony: of the Teriplus and Strabo, the unchorage was a bay and a road, bus tiot an harbour.

dow country on this coatt Mr. Jones interprets Baxee in the fane manner on the coalt of Perfio, as Gezrital Barelk, the Low Tland.






TROM EETMACE TO PTOEMASS THERON OR EPITHERAS.
My: South of Berenice, in the tract of low country between the hountains and the fea, called Tifebarike, is the habitation of the Troglodytes, efteemed as IAliyophagi or Fin Eaters, who live in the clefts and caverns of the mountains; difperfed and independent. They are inclofed by more inland tribes, who are diftinguifhed as Alridóphagi \({ }^{39}\) and Mofkhophagi, titles which imply that their food is locuris and veal. A ftrange peculiarity! but as locufts are no uncommon food either on the coaft of Africa or Arabia, fo, perhaps, the latter difinction intimates a tribe that fed on the brinde \({ }^{t 0}\), orfleff cht out of the living. animal, fo graphically defcribed by Bruce \({ }^{4 x}\). Thefe tribes are under the regular government of a ling,
Below the Mofkhophagi lies the little town of Ptolemáis Thêron, fó called from Ptolemy Philadelphus; who fent his hunters here to prom, cure elephants for his arroy. Were the true fhell of the land tortoife is to be precured. It is white \({ }^{42}\), with a fmall fhell, and in no great quantity, The elephants aifo are imall, like thofe obtained at Adêli.

39 By a comparative view of thede in Agatharchides, the juse we frould allot to then would be in Wyabia or Sennar, or between thofe places and the mountains which line the coalt.
\(5^{\circ}\) P Perhaps the title of \(\mathrm{K}_{\rho}\) sotrons, which Strabo confers on this or fome neighbouring tribe, in equivalent. Sce, Agatharichides, p. 40 . Fiudion.

42 A paffage follows which is imperfect. It feems to defribe another tribe till, more inland, and weft of the Mondophagi-, Compare with Agatharchides, p. 36 , ti Eqq.
 Eudfon, Candidam minoribus teltis praditam. See allo Perip. p. 17, where this interpretation ie confirmed.

This place has no port, and is approachable only by boats. It lies about four thoufand ftadia from [the harbour which is eftablinged for] the reception of fuch: articles of commerce as are brought from beyond the ftwaits \({ }^{43}\), that is from Berenicè. 'This difance agrees with Fas Ahehaz; or Ageeb, where d'Anville places it, if we reckon the fadia, as he does, ten to a mile. The cape is laid down in latitude 18 \(8^{\prime}: 20^{\prime}\), by d'Anville; i \(8^{\circ} .3 \mathrm{r}^{\prime}\), by de la Rochette; \(18^{\circ} \mathrm{ro}^{\prime}\), by Bruce.

If this be true, the ancient geographers mut be greatly miftaken, who place it under the fame paralle with Meroc, to which they: aflign \(16^{\circ} \cdot 25^{\prime}\) : This parallel is of great importance: it was traced by Eratofthenes to whom we owe the doctrine of parallels. And it is aftmed by Ptolemy as a diftinguifhed line both in regard to: Syénè, and to the paralle of Prafum, which was the boundary of his knowledge, and which he lays down as many degrees to the fouth, as Meroe is to the north of the equator.

If then we could fix the pofition of Ptolemáis by reference to the paralle of Meroc, it would give conflency to the Reriplus; in a paffage whene the meafures are more difficult to reconcile tham a . any uther part of the work, for according to de la Rochette
\[
\begin{aligned}
& \text { Mineh-Beled-el-Hbefh, or Berenice, is in lat. } 23^{0^{\circ}} 16^{\prime \prime} 30^{\prime 4} \text {. } \\
& \text { Ras Abeliaz, or Ptolemáis } \\
& \text { Mafua, or Adnhi }
\end{aligned}
\]
\&c. which intimates gencrally any commodi ties brought from beyond the fraits', but in the Periplus confantly the commoditits of the Mofyllitick coaft, or kingriom of Adels and the port ellablihed for the importation or reception (avaropism') of thele cenmodities. can be only Bercnici, the port immedialely before mentioued.
which gives the ditanec from Berentice to Potemás three hundred and fifty-four Roman males, and frota Polemáis to Adalti two kutidedand twenty fiver making a defiency mpon the meafires of the Periplûs of one fundred and tiventy-one out of five hundred and feventy-nine, if we xeckon ten facila the mile Roman!. The diftances are, four thouland fadia from Berenice to Prolemais, and three thoufand front Ptolenaiap" to Aduth as is thiss deficiency which has induced Mr Goffellin to carry the Adur of the Periplis to Affab, or Saba; contray the cpinon of all former geograplicrs, and contrary to the local citicumatances of Aduth, fo froongly marked by our author,

The trexoval of Adalit from Mafua to Saba, and of Ptolemáis Erom Ras Ahehaz in \(x 8^{\circ} 3^{\prime \prime}\) o \(^{\prime \prime}\) to \(16^{\circ} 58^{\circ} 0^{\prime \prime}\), are therefore mutually conaedet.tin Mr. Goflelin's rytem; and as this brings Peolenais within thitty-two minutes of the parallel of Meroe, the whole would be reconcileable if we could make the meafures of the Periplus "accots, but this is impolfible is ; and here Min. Gofflin is led into a great error, thecaufe of which I do not readif difcoter ; for he fays; that the Pefliplas: reckons from Adelil tot the Straits, of Bab-el-Mandeb eight lutadred fadia. This is another miftake; for the Periplás marks. the ftrmination of thefe ftadia, at a very doep bay where the Opfiat

\footnotetext{
\(\therefore 4+\) It wast at the moment that tbir fouet was returned from the prefs for correaion that I re-
 - Sclin's"worki, Rectiocchas' fur la Grographie des Athiens, yubllibed in two vorimess, at Paris, in 1708; and of whicbionly a every fowo copples bad
 differ on tise woble of the Periphts; I'wucs bappy to find he "grreal"upon fon fuyeq" of the circum-

}

fonde is found \({ }^{6}\), and from that bay mentions exprefsly the commencenient of the inclination which the coalt takes to the eaft \({ }^{47}\), and which it continues till it joins the frats: all this is trie, if Adali is fixed at Mafta, and felfe, if it is carried to Saba, or Aflab. The Periples, therefore, is conftentwin itedefription, and inconffent in its mealures; and so which of the two the preference oughto be given, will hardly be difputed by thole who krow the litte certainty of all numbers a Greek manuript, and how moch aht printed texts are correded by circumitnaces before they can be maue coninent.

The real pofition, therefore, of Ptclemais The eron cannot be deternined from thefe data; but if we celinquint the meafures of the Periples, and fearch for is by the parallel of Meroe, we mect whe many curious particulars so compenfate for the digrefion, aid furnif means for the reader to determine for himfelf.

Meroè, as the frrf parallel of Eratonthenes, became an object of the greateft importance to all the geograpers and aftonomers who fucceded; and if there is any one point more than another nipon which we can duppofe them to have fenched for accuraction aequired it; it is this. Ptolemy places it in \(16^{\circ}, 24^{\prime \prime} 0^{\prime \prime}\); or, as it 2ppears in his tables, \({ }^{43}, 16^{\circ} 25^{\prime} 0^{\prime \prime}\); but in his cighth book; he fays, the

4 TPcripl p. iii.
at Thid, p. v.
48 The text thands \(\bar{s}\) s. 9. ax. which the Latin reads \(x^{\circ} 26^{\circ} 0^{\prime \prime}\); but it is \(16^{\circ} \frac{5}{y}=20^{\circ}+\frac{x}{2}=5\); that is, \(16^{\circ} 25^{\circ} 0^{\prime \prime}\). The zucient tengraphers thought, if they approached preciion within. one twelfih of a degree, or five minures, it was finficest; they have therefore no mere minute.
divifion dito feconds; bür if Meroe were in latitude y \(\mathrm{a}^{\circ} 24^{\prime} 0^{\prime \prime}\), the line would be drawn thraugh \(10^{\circ} 25^{\circ} 0^{\prime \prime}\) : "This tewelfh is expieffed. in the different copics of Ptolemy so or:ce, ar. 16; and is in fuppoffd to be ien and invo, that is, stelof, or one twelfoth: But the cominetn" tatörs and editors are not agreed apoin the form of wating os minaier of explication, though
the longef day at Meroe is thirteen hours, (which makes the latitude " \(6^{\circ} 24^{\prime}\) ) and the fun is vertical twice a yeur, when he is diftant (both upon his approacle to the tropic and his return) \(45^{\circ} 20^{\prime \prime} 0^{\prime \prime}\), from the folftial point. This ftatenent of forty-five degreas muif be older than Ptolemy; for Pliny mentions that the fun is vertical at Meroe forty-five days before, and forty-five days after the follace, in which he feems to follow Philo \({ }^{49}\), and then adds, that ou thefe wo days the fun is in the sigheenth degree of Taurus, and the fourfeenth of Leo.

Now in this paffage there axe two errois; for firf, fortyine degree are not the fame as forty-five day, as there are three hundred and Exty-five days in a, year, inftead of three hundred, and hixty, which there ought to be, to make the two agrees and fecondy, the nlace of the fur is mifated, both upon his approach and his retm, for by a calculation of Mr. Walss's with which he favouredme a fovdays before his death, it appears,
- That the fun at this time is in the cighteenth degree of "Tanms, forty-four days before the foltice; which would give or \(x 7^{\circ}-3 / \mathrm{N}\). for the latitnde of Merecs. And in the faurteenth

Though they all interpret it one twelfth, or
 ir. \%i. 6 the thme which is written in the tables, \(65 \cdot y^{-1}\) B. . ydidered by Muntanus, diftat partibus zquahbus folecimet tertia cum duodecima.

4q. See Bruce; vol. iv. p:. 540 , and Strabo, sil. ii. p. 7 y + where mention is made of Phil. who wrote am account of the navigation into Erhiopia, [by the Nile,] and who mentions the verical fun at Meroc foriy-five days bet. fose the nomer follices. Fe is noticed as

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remarking the thadows of the tinompor and agreeng with Eratulthencs. Sonc antiurity of this fort Pliny muft lave followed, as PtoLemy was poferior.
Pliny is reproached ungully by Salmalius.
 tical for xinety dify at Mewe lt will appear fufficiontly from this fatement that he makes po fuch affution; and the mitake of baliantus is raprehended by Vones and har-, denin. . See Vofius ad klam. ed. Vom:

}
"of lieo, forty-fix days after the folfice, which gives \(16^{\circ}\) \({ }^{\prime} 30^{\prime} \mathrm{N}\).
 " days before the folfice, the fun is in the feventecnth degree of " Tauns, which makes the latitude \(16^{\circ} \cdot 57^{\prime} N\) and forty. five days " after the follite, the fun is in the thirteenth of Leo, whele "gives \(16^{\circ} 53^{\prime} \mathrm{N}\)."

Since the communication of this flatement, calculatel only for the place of the fun at the prefent day, the bifhop of Rochetter has adied to the many former kindneffes I have experienced from his friendhip, and derived from his comprehenfive view of the fcience, the following particulars :
" Nothing is affuned by Ptoleny but what is frictly true, that at " equal diftances from the folntitial point, on one fide and the other, " the fun bas equal declination. He gives us in this pallage-two " diftinct principles for determining the latitule of Meroe; the ". length of the longeft day, and the diflance of the fun from the "foltitial point, when he culminates in the zenith of the place"The two principles agree fufficiently in the refult, and the latitude " which they give agrees with the latitude of Meroe, as deduced "from other principles, and ftated in other parts of Ptoleny"s "s works.
"The diftance of the fun from the folftivial point, when he cul" minated in the zenith of Meroè, he tells us was \(45^{\circ} 20^{\prime}\). The

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30 To Mr. Walea I was known only by the and not without a rribute of gatitude to the comtefy of literature; but fuch was his love - memony of a man, who' was as everlinet in of feicnce, that I never confulted him vithout primie life, as an houband and a father, as he receiving every aflitance that it was in his waseminent in the fience he profefor, the power to give. I infert this as his lat favour fricud and cimpaniun of the Huftricus Couk.
}
* oblignixy of the ectiptick at that feafon of the year, in the year of "our Lord one bundred, was \(23^{\circ} 40^{\prime} 50^{\prime \prime}\); the fun's declination, there. "fore, at the dinanco of \(45^{\circ} 20^{\prime}\) from the fummer foltitial peint "c woula be \(16^{\circ} 24^{\prime} 3^{\prime \prime} \mathrm{N}\). and fo much was the latitude of Meroe; "for when the fun is verrical at any place, the declination of the " fun and the latitude of the place muit be exactly equal.
" But he tells us alfo, that the length of the longef day at Meroe " was thirteen hours; and I find by calculation, that in this latitude " of \(16^{\circ} 24^{\prime} 3^{\prime \prime}\), the longeft day muft be exadly twelve hours fiftyw " nine minutes and twenty feconds, wanting only forty feconds of "thirteen hours.
""Again, alluming thirteen hours for the length of the longeft " day, I find the latitude exactly correfponding to be \(16^{\circ} 34^{\prime} 27^{\prime \prime}\). " But this confirms the conclution from the former principles, " notwithftanding the excefs of \(10^{\prime} 24^{\prime \prime}\); becaufe the phæno" menon of a longeft day of thisteea hours would certainly take "place in a formewhat lower latitude, the day being lengthened, " in all latitudes, feveral minutes, by the double effect of the hori"zontal refraction."

Waving thus eftablifhed the latitude of Meroè upon Ptolemy's principles, it will not be foreign to our purpofe if we examine the mealures in Strabo, according to the efimate of Eratonthenes; for notwithftanding all meafures of this fort are precarious, fill, when they come within a few minutes of coincidence, the approximation is more iatisfactory than the difagreement offenlive. The account fande thus :
\begin{tabular}{|c|c|c|c|c|c|}
\hline The parallel through the Cimamon coun the urly geurrarhers, is norti of the & & & c & & Stadia. 8800 \\
\hline The furnc paraliel is fouth of Meros & - & - & * & & 3000 \\
\hline Thexcfore Atroes is north of the equator & - & & & & 11,800 \\
\hline
\end{tabular}

Now Eratofthenes s. "reckoned feven humared ftadia to a degree; and if we divide eleven thoufand eight hundred by feven hundred, it gives for the latitude of Meroc" \(66^{\circ}, 51^{\prime} 34^{\prime \prime}\), difering from Prolemy. only \(27^{\prime} \cdot 34^{\prime \prime}\), which is an approximation the more remarkable as Ptolemy reckors five hundred ftadia to a degree, and Eratorthenes feven hundred; and this circtimtance may give rife to a conjecture, That Strabo had a nap of Eratofthenes before him, and meafured off thefe degrees from the parallels of that geographer, by the compaffes, as we fhould do at the prefent hotur \({ }^{\text {sh }}\).

But we have anotier coincidence between the meafures of Pliny and the obfervations, which is equally remarkable', for Pliny has preferved the report of two Roman centurions fent into Ethiopia by' Nero, who teckoned eights hundred and feventy-three miles from Syênè̀ to the confluence of the Nile and, Aftabioras, and feventy fron the confluence to Meroe \({ }^{54}\) : , The former number we mult exiaun by fuppofing that the centurions followed the winding of the river, which Pliny fpecifies; and upon the latter, where the diftance is fo fmall, there can be no material etror, feventy Roman

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\({ }^{37}\) It is remukalule that this monfuement ty itaitia, cairien on to Syche, and reckoning 4 k rat place five thoufand fadia north of Meroe places it in latitude \(24^{2} 0^{\prime} 0^{\prime \prime}\), which Bruce fikes by reperted oblertacions in \(24^{\circ} 0^{\prime} 45^{\prime \prime}\).
.1 ? ' Fbele numbers ary in the eopies to eighe hundted and ninety-two, and nine hundred and iventy eiglit. fiut with this diterence we are not genesmed at prefent. Truce reclaims atainft them as curying ducroe, io Gojam; but if numatrad by the rives, phel ia remorkably. tortuous in this part of its courle, the nmbers are not too high.
}

54 Miny mentions the places which ocenr on each fide the river in their progreis to Mewe ; and he adds, that the fe are very difereat from the names given by the Greeks, whom Trolemy philadelphus fent into the fane country, and much fever ; this defotasion, he adienves, was not caufed by the Romans, but, by the previous wars between the Egypians and Wthiopians.' But as he mentione likevife, Th. fi. c. 34, 35, that the inhabitints on the Nite, from Syónè to Mereè; were, moit Ethiopians but, A tabs, may we not cemelude, that the chafe of defolation was imputabie to them in that areasit is at prclent? See Entec, is, 330, et feq.
miles the approach within free of a degre, which, we wave no arcient map to guide is, we may tryby he fole of Bruce. Bruce had"good infruments, aind, had been long practifed ian oblerration; but he was fruggitg for his he, and his obfervations"muf have been haft, fill as we have no better, and no travelley is foon hizely on correct be errors if he is mitaken, we are entiled to ufe his natement cill a beter can be obraned. TIe fises
\begin{tabular}{|c|c|c|}
\hline Eerambic & , \({ }^{4}\) & \\
\hline Hinfaia & 45 \(45^{\circ} 54^{\prime \prime}\) &  \\
\hline Gerre & '360 \(35{ }^{\circ}{ }^{\circ}\) & \\
\hline chata & 404 3 3 35 &  \\
\hline
\end{tabular}

Fifeen miles N." or the junction at Goom,

Tn contequence of the oblervations Bruce places Meroè at Gerri, or very near it, as correfonding beft with Ptolemy. And for the fane reafon he might have prefored Chendin minh difers but fuve mintes more. A queen reighig there, and the tite of Fendaques fuggefted to him the name of Candácè, and the queen of Meroé. But he had reaton afternards to conjecture that he found the remains of Meroc̀ at a village called Gibbainy, for here he difcovered ruitss which were evidently Fgyptian or Ethopick, and fuch as he had fee no wherefrom the time he left Axum. : He likewife found an illapd in the Nile called Turgos by the natives a and fuch an fland, whith lerved for a port to Mero, piny mertions by the name of Tadu si. Thefe cranntances are fo conneded, that if it were

\footnotetext{



 fonce for the tatue of the durg owers of ras; abefe LXX milla prifum. Juxtaque N:
}
were not carrying the latitude too far north, we' might prefer his conjecture to his poftion of Meroc." There is yet anther fact Rhe. more appropriate; for if his obfervations are accurate, and he hats placed the confluence of the two rivers exact; the diftatice from the confluence to Gibbainy meafures upon his map as prectifly fifty minutes as polible ; an aproach fo near to the feverty Roman miles of Miny ss that no geater accuracy can be required: Th is trae that this correfpondence will depend on the correctnefs of Bruces ofrervations; but if they are faulty, who mall be the traveller to conrect them? It is true alfo, that Bruce's latitude of Cibbainy is \(17^{\circ} 4^{\prime} 0^{\prime \prime}\), which is forty minutes to the north of Ptolemy's pofition, a differense, perhaps, not too great to counteract the evidence derived from the illand in the Nile, if there be none in a higher part of the river to correfpond. And now, if it fhould ever be the lot of a future traveller to tread this arid foil again, at this point his fearch, for Meroe fhould commence; and if no ruins were foond farther to the

\begin{abstract}
adiam infulant Tadu dextro fubeuntibuas alveo [i. e. Nixo] qua pormin faceret. '1. . (Edificia oppidi panca.' 'II. Regnare freminam Candacem quod nomen multis jam annis'ad scginas tranfit. Delubrum Hammonis et ibi facrum.


Befides thio evidence this paffage gives for an illanił at Meroè, it contains fome features common to Ethiopia, Nubia, and Abyfinia. ' I, Stuicia oppidi pauca, is'a circumflance as applicable to Gondar and Semaar now, as to Me:roè formerlya. II. Candácè is the mame of the quean fubducd by Pctroniusn. And a Candáce's eunuch was baptized by Philip. Bruce found the mame of Elendaque fill syiting. III. Toto tractu facella. In Abysioua the churches Aond fo thick, that the fervice would Be
\end{abstract}
heard from one to the other, as is noticed by the Jefuits and confurmed by Bruce. In thefe refpects; therefore, the manners of all thele nations appear fimiar. Pliny notices, in axother paffage, that they hat forty fige kings: a firong chatacterifick of Abyfinia, perhapq, rather than Meroè.: The temple of Hammon. Strato ioforme ts, had been sieglected by the. Romans, and the fuperdition defpifd. In his age, therefore, the Oafs itfelf of Hapmeat had fallen to decay. It might fill, howerer, peferve ite rephation amoong the Mergites. See Strato, lib. xui. p. 8 r 5 . Meroe is calla Naulababe, the mother of yorts, by the Egyptians; Neube, by the bative; ; and Sabay by the Abyllinans. Marmol, wol. i. D . 45 : "ss Seventy-fice to a degree.

Couth, he might greet Bruce as the difcoverer of Meroe, an honour which; perhaps, would be lefs difputed than his pretenfions to the frif difeovery of che fources of the Nile. We ought not to be ungrateful to thofe who explore the defort for pur information: Bruce may have offended from the warmth of his temper, hemay have been thided by afpiring to knowledge and to fience which he had net fuficiently examined; but his work throughout bears, the internal evidence of veracity, in all inftances where he was n, not deceived fimfelf, and his obfervations were the beit that a' man furnilhed with fuch inftuments as he had, and ftruggling for iffe, could obtain; they therefore deferve refpect; and if we fhould be dipoled to adopt, his conjecture, rarher than his pofition, from the circumfances before us, the exteme difference between him and the ancient"aftromers is \(16^{\circ} 24^{\prime \prime} 0^{\prime \prime}\), and \(17^{\circ} 4^{\prime} 0^{\prime \prime}\), a difagreement, perhaps, lefs allowable im this inftance than moft others, but fill excufable, from the inperfection of all ancient obfervations dem pending on the fhadow, \(\therefore\) he Gomon, and the length of the day, and thofe of Ptolemy more efpecially:

If by fating there particulars xelative to the latitude of Naroe, We could have obtance the pofition of Polemais; we fhould not hove to afk the reader's pardon for the digreflion; but all that we pretend to deduce from it is, that Prolemats camot be fixed at Ras Aliekazz, of Agecg; where it is placed by d'Anwille and Bruce. The Shumeta, or Nubian Foref, which was the refor of the elephants, when Prolemy buit the city, and continues fo the prefent hour, is fappofed to commence in the netighouhood of that Cape, in latitude i8 \(8^{\circ} 3^{\prime} 0^{\prime \prime}\), which difagres more than two degrees with Ptoleny. and neary one and an lalf with the conjecure of Byce to we defend
the coat a degree and a half, we arre at a bay in the middle of the Nobian foreft the lower point of which is nearly in latitude . \(77^{\circ} . \sigma^{\prime}\); a correfpondence with Bruce's conjectual patallel of Rheroe, to near as to be factractory. On a projedtig point of thin fort Polemais was built by Rumedes s? and fecured from the natives by a fofs caried round the angle from lea to fea; axd if this Aruation fould appear reafonable, from the deductions we have been fo defrous to fate, a bether for for procuring elephants cannot be chorer.

There is not a wifh to conceal the uncertainty of this conclufion: the coaft is litile vifited by any European veffels, and the charts of our beft Hydrographers are therefore lefs to be depended on : Strabo's account agrees better with the meafures of the Periplus, and the allumption of dinyille at Ras Abebay. If the difance in the - Periplus from thence to Adêli had been equally confiftent, it would have been conclufye; but the whole is now determined by the parallel of Meroe, which the ancients carry through Ptolemais, and we canot weil attribute to them an cror of two degrees, on a point bettex efablifhed than almol any other whatfoever.

Mr. Coffetia carries it fill lewer, but without a cape; or any circumfance to matk the fot. And it is to be remaked, that he is fo atached to his onn eftimates, for correcting the latitudes of Ptolemy and the othen ancient geographers, that he pays little xfpedt to local circumfances and the characterifick features of the coaf. As I canaot dipate this mater on every pront where we difer, I hall obferve bere, that has wat of atention to the text apperacs no where more confenous that Adale and Aomana, two places

\footnotetext{
swabo, dib. yy, \%o.
}
which
which the Periplas marks with difinctions that cannot be miftaken, ant which Mr. Goffelin transforms or difilaces with great violence. The confequence is, that he is obliged to have two Adelis, for which there can be no warrant either in hiftory or geography.

With whatever etrors" my arrangement of the coaf may be chargeable, I truf it will only affect individual potiions: the general outline I am perfuaded is true: I fubmit "the indeed, with lefs" confidence to the public fince " 1 have perufed the Refearches of Mr; Gofflini. But I fhall not relinquilh the ground I have taken in a fingle inflance. I truf to the in veltigation which I have patiently purfaed under every dificulty, and leave the iflae to the judgment of thofe whe are competent to decide.
It is neceflaty now to obferve, that the hunting of elephants eftab-: Lifhed at Ptolemás is confirned by Agatharchides, Diodórus, Strabo, and other authors.' The manier' of 'hamfinging thefe animals was an art as perfectly underfood by the ancient barbarians \({ }_{2}{ }_{2}\) as by Bruce's "Agageers'; and the nelif \({ }^{62}\) for the flefh of the elephant is an indelble characteriftick of the nation, "Ptolemy would have redeencd the life of the animal at any price; as be wanted elephants. for his ariny'; but he met with a refufal from the native hunters, who dectared they would not forego the haxury of their repaf for all the weath of Egypt \({ }^{62}\) ?

\footnotetext{
'60'Sce Straba, lib. xvi p: 'inz, Diodor: 7iち. iii. p. 161.
os They buccan it, according to Bruce; that is, cut it jatn thin fripes, and dy it ji the fin. - They cut is from the, hiving unimaly
}
\[
A D O U L I
\]
V. From Ptolemáis, the next port we are conducted to by the 'eriptus is Aduli, at the diftance of about three thoufand fadia; fpace by no means agreeable to the difference between Ras Ageeg ind this place \({ }^{63}\); as little more than two degrees of latitade ntervene, which produce fhort of "an hundred and forty miles, where we ought to find three hundred. .This we are informed was \(a\) regular and eftablined port \({ }^{64}\), and it can be no other than the aclebrated harbour and bay of Mafuah, fo well known by the ace counts of the Jeluits and of Brace, as the only proper entrance into Abyffinia.

It is not my intention to entet farther into the detail of this country, fo extraordinary land: now fo well known, than I am led by the claflical authorities before me; but they are fo numerous, and fo confifteat with modern accounts, that to neglect them altogether would be reprehenfible.
\(\therefore\) The Bay of Mafuah or Adûl has an extent of firs miles, and is \({ }^{65}\) open to the hortk eaft \({ }^{66}\). It contains two iflands, upon one of which the town of Mafuals ftands; and which, from its vicinity to the main, muft be that of Diodorns, as it is called in the Periphus; fo ncar, fays the

\footnotetext{
\(6315^{\circ} 35^{\prime} 5^{\prime \prime}\). Bruce, 这. p. \(3^{1 \%}\)
 In contradifincion to Ptolemáis and Berenícè', which were not ports bue roads.
"s Bruec. iii. 1. 63 .
 "of receffity we rulat render fecindum Nofum, as
 afage is juftifrable, but other inftances will
}
occur in the Periplate and it is impoffibe that a fouth-uveft coalt should lie open to the fouthwelt, perhaps, xes' aution, toे Nóró, "as you fail or direet zour cowife to the fouth." This. illand is fo called fiom Diodorus a fermer na* vigator, as we may fippofe, and perhaps the Diodorrus Samius mentioned by Ptolemy, lib. \&; c. 7.
authot, that the fea was fordable \({ }^{67}\). And the natives took advantage of this to attack the fhips at their moorings. For this reafon the merchants had aftervards preferred anchorage, at another. ifland, called Orine , or the Rock, at twenty miles diftance from the coaf \({ }^{\text {of }}\), which anfwers to the Dahalac of Brice, or one of its dependencies \({ }^{{ }^{\circ}}\). The two illands in the bay are called Sheik Sede and Toualhour, and for the former, which is a title manifeftly derived from a Sheik's tomb, De la Rochette has found the rame of Dúli \({ }^{20}\), fill bearing a refemblance to the ancient Aduli.'

At twenty fladia from the fhore, and oppofite to Orinè lay Adilif; "which was a village of nio great extent; and three days" journey inland twas Koloè", the firft market where ivory could be procured \({ }^{72}\). Five days' journey from Koloè lay Axunna, where all the
6. The two illands of Sheik Sede and Touaihout are nearly one at low-water, they may have been joined formerly. Brace, iii. p. 56 .
.o8 Two hundred ladias. Dahahac itelf is about thity miles diftant, but many of the iflands dipendent.onit are willinitwenty.
a. Dahalac, according to Brtee, vol. i. p. 3.50 , is a low flat rocky ifland, without water, but furnifhed with tauks of extraordinary magnitude and Aructure, for the prefervation of the rain water, which falls abiundantly at ecrtain feafons. Thefe works are now in ruins, but Brace fuppofes them to be the works of the Ptotymics, in the vigour of the Egyptian trade: They may be Sabean, for Dalial, or Jocl, Bruce informs us, fignifies an illand, in Arabick and both this Dalal ace and another Theligua ia the Bay of Zeth, may have been ifes where the Sabians procered water. I tefer this to the ingury of Orientalits.
- In fixirg upon Dahiac for Orime, tiam
guided by the two hundred fadia of the Peri: plifs, and fupported by d'Anville. But Orínè fignifies mountainous rather than rooky. And, Cofmas mentions d̀nó \(\mu\) matar dúo. Cofmas is high authority, he was at Adali himelf; and. the mention of the iflands Alalaiou in the Periphes, evidently the dependencies of Dahalac, if not Dabalac itfelf, leaves little doubt on the allotment of Orine. See d'Anvile, Geog. Anc. tom. iii. p. 60.

7o Bruce met wih a Mahomet Adalot at Mafuah; voli iij. P. 11. which feems to imply that the memorial of Acit: is not loft.
; In Tigrex, the province of which Sire is a part, the market is flitr on the fame footing. The bed flaves, the purelt gold, the largent teeth of ivory inult all pafs through the hands of the govenour of this provinse. Brace, iii. p. 35 t .

12 The elephanes track was firit feen by Brace, on the third tay, iti. p 7 t. " we:
ivory was collected which was brought from the other fude of the Nile, through the province called Kuenton, and thence by Axuma to Aduli. Thefe difances anfwer exactly to place Koloe on the mountains \({ }^{73}\), which commence at the back of the fands, and eight. days' jountey to Ax unna is a juft allowance for about an hundred and tonty miles \({ }^{7 \%}\). which is its difance from the fear The proyince: of Kuenton is manifenly Sire, which receives its name from theOog Star, under the influence of which the xains prevail that are toinundate Egypt, and Siris \({ }^{7 s}\) is fynonimous to Kuenion in the language of the cotintry: Few elephants or rhinocerofes are feen. on the coaft or in the neighbourhood of Adulla. The mafs of them. which fupply the trade are all killed in the interior:

The Covereign of this coaft, from above Berenice \({ }^{7 n}\) down the whole tract of Barbaria, is Zofkales, he is very fuperior to the other: "rinces in the neighbourfood. Civilized in his manners, refpectable in his conduct; liberal and honowrable in his dealings, and inftructed in the knowledge of the Greek language.
'The province affigned to this fovereign correfonds precifely witl. the territory affigned to the Bahr-nagafh, or king of the coaft, under:

\footnotetext{
\({ }^{3}\). Turanta is the ridge that divides thie fenCloss, on the eaft rainy from October to April, on the weit cloudy, rainy, and cold from May to Oftober. Bruce, iii. p. 65 ..
\({ }^{24}\) Fifteen miles a day is not flow travelling in fuch a country as Brace defribes. Nónnofus makes it fifieen from Addile. See Photits, in Nonnos.
\({ }^{-5} \mathrm{~K} \mathrm{c}_{\mathrm{s}, \mathrm{J}, \mathrm{C}}\) Canicula Seit, a dog in the language of the Troglodytes. Bruce, i.. p. 379 . Sce Dionyfus Perieg. where it appears that this accoum of the Dog Stai is as old, at leaft, as Dionyfuis, or his commentators. 耳in 222 .
}
and EuRathiùs.
\({ }^{76}\) Htiving above vent:ued to fix Berenicè at Belled-el-Habelh, the port of Abyflinia; it is fome fort of confirmation to find; that Berenicè is actually included in the govern-. ment of Z, Zoflales, who is, to itl appearance \({ }_{2 n}\) the Babrnagaft of his age, that \% whe king: or governour of the coall, a, title the theferved: notwithtandiag the Tarks arc matters of the: ports. See Brace, palfim, Mahr=Seaz. Nan gafa=king or governour, Wherice the vul. garim of the negus for governour, the great: negus, for the king of Abyffinia.
the empire of Abyflivia; and the manners atterbuted to hin are confinent with that pre-exinence which the Abyfinians in all ages ficem to have preferved over the batbarous tribes by which they are fursounded.

How it bas happened that a nation neither Nigxitian or Ethiopick frould be fetted in this part of Africa, diftinguified from all around theng, as much formenty by their manters, as they now are by their religion, is a problem that has divided tie opinion of all who have wifited the country.

That they are not of Hebrew origin appears evident, notwith ftanding their own pretenfion and the arguments of Bruce; becaule, in the firt place, the Jews among theni continued a diftinct tribe; and in the next, their language is written from the left hand to the right \({ }^{27}\). Paolino, a miffionary on the coaft of Malabar, aferts, that though the character is different, the principle, genius, and conftitution of their language is Shankreet \({ }^{\text {is }}\). A queftion well worthy of examination by thofe who are qualifed to purfue it. But as far as a private judgment is of: weight, I muft conifers, that the acceunt of Herodotus has always appeared to, me the moft rational ; that they are a nation of fugitives from Egypt: Strabo, in copying this opinion, has added, that the appellation \({ }^{\prime 78}\) they

> give


Sabai is both by d'Anvile and Druce fuppofed to be Ras Afrab-Cape Aftab, in lat. \(13^{\circ} 3^{\prime \prime}\). If this be allowed, it accords intimately with Abyflimia: becaule as Strabo goes ipland he reverts to Meroe, which proves that his detail on the coaft, and in the interior, do not quite keep pace together. A line drawn from Affab. to Meroe would jalmoft fouch Axûma, and,
give themelves is Sebrix \({ }^{\text {Bo }}\); a term which fignifies \(A d v e n \dot{e}^{\text {Bf }}\), the 'more remarkable;' as Bruce obferves, that the original title by whici they are diftinguified in their own hifory and larguage, is that of Habefh \({ }^{82}\), or Convenax. It is impoffible to fuppofe, that the affinity of thefe two words is accidental.

The fight of thefe exiles is fixed by Herodotus in the reign of Pfammetichus: \({ }^{\text {an }} 630\) years before Chrint, and only 18 years before the date of hisomin hitory; he mentons that they went to as great a difance \({ }^{54}\) beyond Meroe \({ }^{\text {ss }}\), as Meroe is from Elephantine, to the number of two hundred and forty thoufand; and that the name by: which they were diftinguifhed as a nation was Aimack, or Ancliam; an appellation which Reifk and other Orientalifts have fuppoled wollude to Axum, the Axuma or Axp̂ma firt mentioned exprefsly
cut Abyfinia in the centre.. I wifl a reference to be made to tlie whole paffage in' Strabo. lib. xyi. ip. 770 , where among much obfcurity, much twith may be difcovered. And where I Thould think that Sukho is Suakem, but that Strabo fays it is inland, It is in reality a town on ar illand in a bay, the approach to which is by a narrow channel like a river. See de la Rochette's map of the Red Sea. :See alfo the learned Larcher's notes cighty and eighty-three, on this panfage of Hemdotus, with his citations. From Plutarch de Exilio; p. 601. and from Diodorus, lib. i. p. 77. A paflage occurs here ju Diodurus, wisich Iought not to have onitted. at the conclufion of the firlt book, to prove the commerce of the Greeks in the ports of

 ibid.
to. Ile adds, that thefe Sebrite are under the government of the queen of Weroe, p. p .7ns. which though, perhaps not true, difcovers the
connexion; or the fimilarity of government.
\({ }^{85}\) Ptolemy has the name of Sibrida, perhaps the fame; in the Greels text Sebarda.
\({ }^{82}\) Bruce, vol. i. p. 379 .
83. Pfanmetichus died in 616. Blair: Herodotus read his hillory ak the Olympick. Games, 445, ante Chrifurn. I allow to the middle of Pfammetichus's rcign.
os The diftance alfigned by Heródotus is fify-two days to Meroè, and ffty-two beyond, which do not correfpond, if the termination is at Axû̀ma. See lib. ii. p. ry6. But beyond Egypt all mult be report. Axriftides; Orat. Egyp. contradicts Heródotus as to the dife. tance, as I leatn from Larcher, tom. if. p: 213 :
ss Bruce, yol. i. p. 25 8 , quotes Fieródotua. in this paflage, for what be docs not fay. "
\({ }^{85}\) It figuifies the left land. Herod. hecaufe they had been guards on the kiag's left hand: perhaps the left wing of tis army. Sec Diod.
\({ }^{8}\) : See Weffing, not. 7 j . Herod. Lib. ition p. 116:
iny the Periplûs ：a fuppofition which there is very fitcle reator to difcredit．In addition to this teftimony of Herodotus，we have a varisty of evidence from bther autiors，that Adaif \({ }^{53}\) ，was built by exiles from Egypt；and if Bruce had not had fuck a predilection for his Shepherds，he muft have difcovered，that the monuments he found at Axuma himfelf，the obelifk \({ }^{\text {sin }}\) ，the tof，the table of hiero－ Syphics；and the fphinxes，are perfectly Egyptian；and not paftoral， Troglodytic，Meroite，or Geeck：
－That the Greeks fromr Egypt landed at Adulf，and fubdied the country as far as Axuma，or farther，is cridenit．Ptolemy Phila－ delphus＇puflied his difcoveries beyond Mèroè by land；and by fea， pethaps：as far as Madagafear；and the fanous intription preferved by Cofmis Indicopleuftes，is，a probf that Euergetes fubdued a： conifderable part of Abyfiniza：

This inforition is reported by Cofinas to haye 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 Chrift－ ian eral It is not without its difficulties s，but Cofinace，from inter－ nal evidence，was certainly at Adûli \({ }^{\circ 0}\) hitinifelf，and acquainted with Abyffina．Ptolemy appears；by the infription，to have pafed the T＇a－ cazze，which he calls the Nile，and to have penetrated into Gojam；

\footnotetext{
\({ }^{88}\) Eliny，Mib．vitc． 24 Adaliton oppidura Egypiorum＇huc fervi a dominis profugi condiderat．
si All thefe are noticed by Bruce，and the form of the ohelik delacated：they are men－ tioned allo by Lobo，p：201：Fr．ed：Obe－ link alfo and pyramids appcar in the pifture of Adoli，draiva by Cofmas on the fpot，anno Chriti \(5 \mathrm{~s}^{2}\) ．See Chiftull Antice Afatice；in
}

Marmore Adilitano．Ece Differtation，No．ii． 54．Though hie is ：called Indicopleuttes，I can bardy giwe him credit for having ever Gailed on the Indian ncean．His defription of Ceylon has obtained this tille for him．© But． he lays himfelf，he had it from Sopater．＂And his account of the fea beyond the fraits of Bab－el－mandeb may well make wa think he never pafficd them．：
the very province where the fountain of the Nile are found t the Agows are mentioned by name, and otherappelations feem, to imply the kingdoms of Tigre \({ }^{\text {oo, }}\), Bizamo, and, Beremder, the country of Geez, with the montains Samen and Lamamon. The frow menm tioned on thole tracts is difclamed by Bruep? But what phenomena were nitural to the country in fo difant anges it hayd to detern mine. What is added, that Ptolcmy. EneFgetes made roads of opened a communication by land between this country and Egypt, is the mof remarkable particular of the whole, becaufe this method of intercuarfe feems wholly obliterated, as fax may be judged by, fublequent writers And Agatharchides does not appear to be, acquainted, either with the expedition of a fovereign of his own country, not fifyryears deceafed, nor with the country, or its port Adulli". His account goess no farther down the coat than Ptolemáis; and even there is not without a mixture of the maryellous.

This, however, is but a negative proof, and not fufficient to invalidate an exifting infcription, if Cofmas is worthy of belief; and to his credit be it mentioned that Bruce \({ }^{93}\) found the name EUE, RGETES, fill vifble on a ftone at Axím, which ferves as a foottool to the throne on which the kings of Abyfinia are crowned at this day.

\footnotetext{
so See Difertation 7.
9x Vol. if p. :06. 'Bume fays, there is no word in the language to exprefs; fitow or ice. But Horace fays; SaraEte Itat nive candidas a circomfance whieh now never ascuns as \(I\) thime', Addifori, fays.
- 92. See Appendir, Adelitic marble Wh. in,
sf Brace writes, "The Diforption though \(\qquad\)
}
much defäced, may. fafcly bé reflored." mronemator eymriefoc basthenc. How much more authentic would à fac fixite of the infcription have been, than the reftort:-
tion? in thich, by an turor of the author, of the infcription have been, than the rettortw
tion? in which, by an weror of the author; ou" the prefo, eveareTorg is readfor erenceror;" yol. iii. piszx. 1. . \(\because\)

On this evidence there is little reafon to doubt the expedition of Peclemy to this country; and howéver the port of Aduli might be forgotten or abandoned in the time of Agatharchides, it became. agaiir confiticuous, as the , trade increafed in the Red Sea; or at leait as it was conduited under the protection of the Roman power in Egypt:

This intereourfe will fufficiently account for the characker which the Periplûs gives to Zôfkales \({ }^{54}\), the civilized flate of his manners, and his knowledge of the Greek language. And it is plain that this country was juft begiming to be Known again, as Pliny mentions: Aduli only without any notice of Axûma; and Strabo, who preceded him, makes no mention of either. The manners of there tribes he derives chiefly from Agatharchides, with the addition of fome pecuilanities \({ }^{\text {os }}\); but with the commerce of the coaft, and the kingdom of Abyfinia", he was unacquainted, though he accompanied Elius Gallus to Syêně.. That journey of Gallus was preparatory to the opening of the trade meditated by the Ronans, from their firfe entrance into the country; the author of the Perifûs \({ }^{26}\). writes as if it had been, opened previous to his own tine, and with every apparent evidence, that he had traded to Aduli Himfelf. The aflortment of his cargo is as fpecific as a modern invoice:

\footnotetext{
94,So and Suah, acoording to Bruce; are roote, implying the Stepherd tribes on this coat. Thus Ma-fuah is the port of the Sheplierds. Could he not have found So in Zôakales the king of the Shepherds?

}
\({ }^{95}\) If the Adulitic infeription is verifud, it is the firt authemic account of Abrmian: But the knowlecge of it was lofy and the Periplis is the firt work cxtant, which expreflyy notices Adali, Axuma, and the comimerce of the country:

\author{
EXPORTS. \\  \\  \\ Ivory. \\ Horns of the Rhinoceyos.
}

IM.ORTS.



STo入ài 'Agowontixès.
"AGc入or vódor yo ownétives,

Ápıtųcio.
\(\Delta i n e o ́ \sigma \sigma x\).

 than mannfacture, for the Barbarian market.
Robes made up, the manutacture of Arsinoè or Suez:
Single cloths dyed, in imitation of thofe of a fuperior quality.
Ginnen, happofed to be from the Latin Linteum.
Cloth, ftriped or fringed.
Glais or Chryital.
Porcelaine, made up at Diopolis in Egypt, in imitation of Oriental.
fenfe it paded to the Grecke, and from them to the Romans.

98: Salmafnus everywhere ' reads Moffry, which he fuppofes to be Oncenal poreclains if "fo, the manifacturets of Bofpuls, are the Prototype of the European imitators: But there is much controverfy upon this fubject, what the Morrhina really was.


\(M \in \lambda \bar{\epsilon} \varphi \theta z . \chi \alpha \lambda \mu \dot{\alpha}_{0}\)

工idypos．

Пелúrsa．
「 \(\Sigma x^{\prime} \epsilon \tau \alpha \rho \nu \alpha\) 。

 －round．

\section*{Aquágós．}

White Copper，for ornaments and for coin．
Brafs，for culinary veffels，for bracelets，and ornaments of the legs，fill worn in Abyffinia． See Bruce，iii．54．
Iron，for fear heads to hunt the ．elephants，\＆c．and for weapons of all forts．

\section*{Hatchets．}

Adzes．
Knives，daggers，or kanjars．

Denarii，rpecie for the ufe of ftrangers，Roman coin：If Greek，it would have been \(\Delta \rho \alpha^{\prime} \chi \dot{\mu} \dot{\alpha}\) ，drachms．
 and Italian．

\author{

}

X \(x_{\rho} \quad \sigma^{\prime} \mu \mu \tau \alpha\) ．

\author{

}

Oil，but in ino great quantity． According to the Gold plate．\(\left\{\begin{array}{l}\text { fathion of the } \\ \text { country，and as }\end{array}\right.\) Silver plate，\(\left\{\begin{array}{l}\text { prefents，or for the } \\ \text { ufe of the king．}\end{array}\right.\)

106 PERIPLUS OF THE ERYTHREAN'SEA:.
"A \({ }^{\prime}{ }^{\prime} \lambda \lambda \alpha \alpha\).
Kauna'scas \(\alpha \dot{\alpha} \pi \lambda \dot{0} \tilde{o}_{;} ;\)
ơ ทั่ \(\lambda \lambda \hat{\text { ® }}\).
Bu \(\pi 0 \lambda \lambda \alpha\).
гióngos Iudreóq..

Watch coats, camp cloaks.
Goverlids, plain. of no great value: not many.
Iron, of Indian temper or manus. facture.

 perhaps blue Surat cottons; filli common in Abyfinia. Bruce; vol. iii. p. 62.




Cotton, of the colour of the mal:lows flower.



Mulins, in ne great quantity.
Gum lack, but Salmafus thinks it: the colour of a cloth or cotton. Plin. Ex. 816.

Thefe are the principal articles.imported from Egypt into Adûli, The voyage may be made any time from January to September \({ }^{\text {s8 }}\);

\footnotetext{
\(2^{8}\) The author exprefles himfelf both in. regular wind blows up the gulph from NoLatin terms and Egyptian. From January to vember to April: Perhaps there are means September, that is, from Tybi to Thothy, of coming down from Berenice or Ptolemáis, otherwife one mult have fuppofed an error; with land breezes?: for according to Bruce and the charts, the.
}

Wut the beft feafon is September, and this is confiltent with the modern account of the winds in this fea.

Oppofite to the Bay of Adûlis lie many low and fandy illands called Alalaiou \({ }^{100}\), anfwering precifely to the appendages of Dahalac as defcribed by Bruce, and exhibiting, feemingly, the elements of the modern name; for Dahal fignifies an ifland, in the language of Geez. Hither, according to the Periplûs, Tortoife-fhell was brought by the ICthyóphagi; and it is very remarkable that Bruce fhould obferve the beauty of the tortoife-fhell here \({ }^{101}\), to be fo exquifite that it is a very profitable article of trade with China and the Indies. Thofe who know the Roman tafte for ornamenting doors, tables, couches, beds, \&x. with this fhell, will not wonder, at its value in the commerce of the ancients.

Below Adûli, about eight hundred Atadia, or eighty miles, there is a deep bay with a valt accumulation of fand, in which is found the Opfian fone, that is no where elfe to be met with. Salmafius Thas proved that the title of Opfidian or Obfidian, given to this foffil from qa unknown Obfidius, is an error. He deferibes it as a dark green/which will take a very high polifh, and for which reafon it is faid to have been felected by Domitian to vaneer a portico at an enormous expence, that it might by reflection fhew if any one was approaching behind his back, and preferve him from the attack of an affaffin. There are fpecimens in England of what the modern Italian artifts call Opfian fone; its texture is clofe enough to admit

\footnotetext{
99 On the right, according to the text, but to make this true you mult fuppofe the writer at Aduli, fronting the fea, with his face to the cath.
.oo Pliny reads Alken, lib. vi. c. 34.
}

\footnotetext{
101 Caught between Dainalac and Suakem, but he adds, on low fandy illes laid down between is \(8^{\circ}\) and \(20^{\circ}\), where, on his map, he hardly has a fingle ifle.
}
of any polifh \({ }^{\text {roz }}\), but it is fo dark that the green tinge can only be: difcovered in a particular light.

The bay where it is found is much harder to difcover than the fone itfelf \({ }^{\text {ws. }}\). There is nothing like a bay till we come to Beilul, much too diftant, and there are no data to guide us but the diftance. It is here that the authority of Zoikales feems to terminate; and if. Bruce had been able to give us the exact limit between the province. of the Bahrnagafh and the kingdom of Adel, it is poffible that this. might have determined the queftion.

From this bay the coaft of the gulph, we are informed, has a: more eafterly direction to the fraits: a circumftance agrecing with. the maps of Ptolemy, the report of Agatharchides, and the opinion: of the age. This gives the fituation of the Bay, both in regard to Aduli and the ftraits.

The fraits 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, becaufe I am ready to admit an intercourfe between the fouthern coaft of Arabia and Malabar, as. early as the moft feculative antiquary cari require. I acknowledge: all that can be attributed to the voyages of Solomon's fleet, as long as. they are confined to the coalt of Africa. I accede to the progrefs of Timothenes down the fame coalt, perhaps, as far as Madagafcar; notwithftanding the inconfiftency of his accounts \({ }^{104}\). And I allow:

\footnotetext{
\({ }^{202}\) I have feen this fone both rough and in its polifhed ftate.
x43. Hinc in ora 不thiopiz, finus incognitus, quod admiremur cùm mercatores ulteriora fcrutentur. Pliny, vi. 34. For. Beilul, fee
}
the Modern Univerfal Hiftory, vol xii. p. 301 : where the ports of Vella and Leila are mentioned, which, if they had been carried beyond the ftraits, might have been the Sinus Avalites. \({ }^{104}\) See Pliny, lib. vi
the Phenicians to have penetrated as far as Herodotus thall pleafe to carry them, if he will not conduct them round the Cape of GoodHope. But whatever difcoveries we attribute to the Oriental navigators, there is no hiftorical evidence remaining, that the Greeks in Egypt profecuted thefe difcoveries fo as to make them the balis of a fettled trade: they contented themfelves with fetching the produce of India and Africa from Yemen; if they did pafs \({ }^{\text {os }}\) the fraits by accident or defign, it was under fuch an impreffion of terror, that every thing beyond them was obfcured by fable, the fun was a pillar \({ }^{306}\), and the fea a curd.

Much that the three firft Ptolemies had attempted, was neglected; or forgotten by their profligate and oppreffive fucceffors; and if the Romans had not taken poffeffion of Egypt, a thort fucceffion of weak and ignorant princes might have reduced this commerce again into the fame torpid ftate, it has experienced under the Mammeluksor the Turks. The dread of venturing on the ocean is expreffed. by many writers long after the trade to India was eftablifhed; and Cofmas, in the reign of Juftin, fpeaks of pafing the flaits as wildly: as Pytheas does of the Arctic ocean.

As this fpecies of the marvellous is a conftant attendant upon ignorance \({ }^{107}\), and an indication that the writer defcribes what he never faw ; fo is a plain narrative an evidence of truth, and the abfence of prodigies one of the ftrongeft proofs that the author really vifited the country he defcribes.

\footnotetext{
105 It has been noticed in the firf book, how far their knowledge extended in the time of Agratharchides; he fays, the Arabians traded to India, and Indian fhips arrived at Arabia, without mention of the Greeks. How the Grecks afterxards reached India before the
}
difcorery of Hippalus will be Elewn at large. in the third book.
\({ }^{106}\) Agatharchids.
10: Compare the account in the Peripture no lower than Ptolemá:s Thèrôn with the account of the fame courle in Agatharchides.

It is from internal evidence of this fort that \(I\) conclude the author of the Periplûs to have been himfelf a trader on the coaf of Afvica and Malabar. Concerning both he freaks with the temperate language of one who defcribes objects that are familiar; and the extravagance, fuch as he has, commences not till he paffes Cape Comorin.

In running down the coaft from Adull to the ftraits, we have no mention of any place but the bay where the Opfian ftone is found, upon an extent of near four hundred miles. The author conducts us at once to Avalitès, which lay immediately beyond the neck of the ffraits ; and from the time weleave Ptolemáis Thêrôn moft of the appellations are native, without seference to the reigning family of Egypt, or to the Creek language, \({ }^{208}\) for their origin.

The reafon of this does not appear, as Strabo, Juba, Pliny, and Ptolemy, all place Arfinoè and Berenícè Epidîres in this tract, with 司ight traces of other Greek names; as Eúmenes and Antiochus \({ }^{\text {os }}\). If they exifted, it is. Atrange that a Greek fhould have paffed them unnoticed, neither does it appear that they are concealed under the native names which Ptolemy reports, in the fame manner as our author \({ }^{210}\).

\footnotetext{
\({ }^{308}\) Orinè, Daphnon, Apokopi are Greck names, but given from circumfances, and perhaps by the firt navigator, as; Cook uamed his new difcoveries.

309 Strabo, p. 77x. Ptol p. 112.
}

\footnotetext{
 written indeed \(\Delta\) rign in Ptolemy, and by a ftrange miltake in Bruce written and inter. proted Dizx or the Furies from the Latin.
}


\section*{D E I R}
VI. We are now to pafs the celebrated ftraits of Bab-el-Mant deb, 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 ftraits \({ }^{\prime \prime}\). The ftraits he calls Deirè \({ }^{12}\), or the Neck. The Periplûs makes no mention of. Deirè̀, but obferves that the point of contraction is clofe to Abalites, or the Abalitick mart; it is from this mart that the coaft of Africa, falling down firft to the fouth, and curving afterwards towards the eaft, is ftyled the Bay of Avalites by Ptolemy, anfwering to the modern Bay of Zeila; the country from the ftraits to Cape Gardefan or Aremata is the kingdom of Adel ; : and in the modern Adel we may perhaps trace a refemblance to the ancient Abal-ites \({ }^{113}\). However this may be, the Portuguefe, upon their firt intercourfe with Abyffinia, found Adel a powerful kingdom in the hands of a Mahometan race of fovereigns, the determined enemies of the Chriftian name, and the ravagers of Abyffinia, almoft to its deftruction. Againt thefe invaders, and againft the oppreffion of Gragni \({ }^{124}\), the moft ferocious and the moft fucceffful of all thofe Mahometan tyrants, it was, that the Abyffinians follicited the affiftance of the Portuguefe. Albuquerque, the brother of the illuftrious general of that name,

\footnotetext{
- \({ }^{111}\) Maydari x xün iy it ought to be written 7 f feparate, \(10^{\circ \frac{1}{3}}=10^{\circ} 20^{\prime}\).
\({ }^{112} \Delta\) nign, \(^{\prime} s x\), Dérè \(11^{\circ}\).
\({ }^{2 / 3}\) It appears that this, at leatt; is the opinion of Marmol, lib. x. p. 158. Bruce imagines Adulli to bear relation to Adel, and
}

\footnotetext{
1f the kingdom of Adel ever extended north of the flraits to Aduli this would be admiffible. - In the Periplâs, Adûli is certainly connefted, not with Adel, but with Axuma. I am not cetain that Bruce knew the fite of Aduli.
\({ }^{354}\) Anno 1564.
}
was fent to command the troops appointed to this fervice, in which expedition he and moft of his followers perifhed. Btt the knewledge which the Fortuguefe obtained by that intercoufe, and the wars in which they were engaged, on the coaft of Arabia, with the Turks and Arabs, furnifh the principal means that we have for explaining the topography of the country before us \({ }^{15}\). The Engliih who fill frequent the Red Sea, feldom vifit the ports of Adel, as the itate of the country prefents little temptation to the fpeculations of commerce. But when the Portuguere firf entered thefe feas, Adet, though a barbarous was ftill a powerful government \({ }^{\text {"is }}\), gold duft, ivory, myrrb, and Abyflinian flaves \({ }^{177}\) formed the ftaple of its native commerce, the fpices and muflins of India were ftill found in its ports, and notwithftanding the depredations of a favage war, caravans \({ }^{128}\) were protected, which arrived regularly from Abyffinia, and the interior of Africa more to the fouthward. Thefe circumftances will contribute more to illuftrate the narrative of the Periplûs than any particulars which can be collected from ancient authors; the Portuguefe found the country and the commerce in the fame ftate as the Greeks defcribed it fifteen hundred years before, Arabs

tractable, intelligent, and endued with talents and courage which always elevate them to favour, and often to command. When commodore Robinfon furveyed the coaft of Brodia in 1772, an Abyflinian was malter of Scindi. How different is this fingular race from the Caffres on the coalt in their neighbourhood!
\({ }^{118}\) See Corfali in Ramufio, vol. i. p. 187. Purchas, vol. i. p. 754.
mixed with the natives, the fame productions and commodities, the fame intercourle with Hadramaut and the coait of Malabar. This tate of things ceafed, in fome degree, with the arrival of \({ }^{-1}\) the Europeans in India. But as long as the Indian trade was carried on by the Red Sea, the kingdom of Adel mut have partaken in it, and its commerce would be fimilar to the Moiyllitick 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 Sabeta or Yemen, to fetch the commodities of India; that they afterwards palfed the ftraits, and found a better market in the port of Mofyllon \(\stackrel{4}{9}\), one of the harbours of Adel; that in a later period they advanced as far as Hadzamaut, on the fouthern coaft of Arabia; and that all there efforts were made ifor obtaining the productions of India, till at laft they reached that country themfelves, firt by adhering to the coaft, and Gnally by fuiking acrofs the ocean in confequence of the difovery of the monfoon by Hippalus.

The poat of Adel, Ayled Barbaria in the Periplus, commences. at the fitaits and terminates at Aromata; in which there can be little doubr, that the author is more accurate than Ptolemy, who extends the name of Barbaria doyn the coaft of Ajan, the Azania of the Perriples. Babaria is much more properiy extended to the north than - The fouth; for the Troglodytes on the weftern coaft of the Red Sea are the origital Barbars or Berberines, as Bruce has admirably proved, the perpetial enemies of Egypt, whence their name became a term of odiun and diftinction, and in this fente paffed both to

\footnotetext{
 calles Mofylitick in the market of Alex- wood, 64. andria, cinnamon, fpices, mollias, \&c.
}
the Greeks and Romanis, as an appellation adopted for every thing. that was fareign, or continery and offerfive to their own fyflem tf. life and maniers.

The coaft of Barbaria is eforated at four thenfand fadia \({ }^{22}\) in the Periptus, and is in reality foum hitudred and fity gengrapmictit miles, without taking its finuofties into the accorme, The ferats:at Bab-el Mandeb are contracked to three and twenty millese a ipace. divided into two chanels by the intervention of Perim and other illes, both of which were navigated by the ancicnts, accordays to their courfe down the oppoftere fedes of the Red Sea; from the fraits, the chantiel opens in alu eafterly direction to Canacr Cape Fartaque on the Arabian fide, anit to Aromata or Gardefun ot the coan of Africa. Thefe two promontories form the proper entatace to the fraits from the Indian ocean, and are about two hurded and fifty geograplicical miles afurder: The latitude \({ }^{72 x}\) of Fartacque. is \(x 5^{\circ} 45^{\prime \prime} 0^{\prime \prime}\), and that of Gardefan' \(12^{\circ} 0^{\prime} 0^{\prime \prime}\).

The African fide of this channel, which we are now to follory, contains, aecording to the Periplâis, four principal marts or anchorages, called by the general name of Ta-pera ; and the fame number occtir in the accounts of the Portuguefe, but all attempts to make them correfpond are in vain:. D'Anville las placed them
\({ }^{121}\). Certaialy more are intended by the Periplus but not fpecified. Four thoufand fladia are four hundred Roman miles.

12: This is hid down frou one of the lated. charts, by Lawric and Whittle; but in thefe latitudus, and the fate between. Fartaque and Gardefan, the charts differ greatly.
 rameyos, is very jufly doubted by the commen-
tators, It incline Arongly to the former: The marts leyond the fraits, in contraditinction to
 this feems. fully confirmed by the Periphos itfelf, p. 8, where the MS. has mexrega and reiners, which Hudfon very propetyr writes.
 and sì ouvious.
according to the meafires of the Periplus. My own wifh was to have reconciled Molyllon with the modert Zeyla; firf, upon account of a refemblance in the found of the names; and fecondly; becaufe Zieyla is the principal matt of the moderns, as Mofyllon \({ }^{174}\) was of the ancients. But this endeavout is fatoured nether by the meafures or the circumptances defribed. The leading faos upon which the following atrugement is founded, will be frated in their proper place; they manat, at beft, only to conjecture; but this is: of lefs importance, as they terminate in certainty at Aromata, with fuck friking peculiaities as can be derived only from one who had actually vifited the coaf himelf.

ABALITES, AUALEITES, pronounced AVALITES, whether written with the \(B\) or the \(U\) :
VII. The firf of thefe marts is Abalites, a road, but not a port or harbour; the goods are conveyed to and from the fhips in boats or rafts \({ }^{\text {r2s }}\). This place, according to the Periplûs, is clofe to the Straits of Bab-el-Mandeb, but Ptolemy has fixed it at the diftance "of fifty or fixty miles, and makes it give name to the whole Bay of Zeyla, whieh is ftyled the Bay of Mofyllon by Pliny. There is a" Ras \(\mathrm{Bel}{ }^{126}\) in the chats which is not more than ten geographical mites from the furaits; but whether the refenblance of the names marks any relation, is juftly to be doubted.

\footnotetext{
124 Marmol fpeaks of many ancient buildings at Zecyla, but ancient may refer to Arabians of a much later date then the age of the Periplats, lib. 10. p. 155 . et feq. Frencli ed.
\({ }^{22 s}\) Strabo notices, the transforring the cargoes at the fraits from thips to boats. May
}
it not be an error derived from the practice here mentioned?

126 Marmoh is fully couvineed eliat Abai Ites is the kinglom of Axel, lid. x. p: 155; 156.

The imports of this place are：



Flint glals of various forts：
Unripe grapes from Diofpolis，or， perhaps vinegar：See Hefych． Stuckius fuppofes it may be any unripe fruit；＇and Ramifio fup＊， pofes it to be a fpecies of flone．
Cloths for the Barbarine coaft，of various forts，with the knap on． Corn．
Wine．
Tin in fmall quantity．

The exports are conveyed by：the natives in fmall craft to Kelis ［Okélis，］and Moofa，on the coaft of Arabia，confiting of
＂A Acipata．
＇E入́sథas ỏ入ízos．
Xs \(\lambda^{\prime} \omega^{\prime} \eta\) 。


Gums，odoriferous gums．
Ivory in fmall quantity．
Tortolite－fhell．
Myrrh in very fmall quantity but of the fineft fort．
\({ }^{327}\) The tin of Britain we thus find on the conveyed．＇How many commodities pafed coaft of Africav May we not juftly fuppofe，from regions，equally dittant，without any that the Africans knew as little of Britain as the Britons of Africa？Yet here we fee the medium through which the commodity was

Particular attention is due to this laft articlês becaufe the myrrh of Arabia is celebrated by every poet and hiftorian, while Bruce lays, it is not properly a native of that country, nor does it come to perfection there. Its origin, he afinms, is from Azam in Africa. The Perphitus is perfectly in harmony with this affertion, It mentions the myirh of this coalt as the finell of its kind; it fpecifies the means of conveying it to Yemen or Sabex; there the firt Greek navigators fouid it, and through their means it found its way into Europe, under the name of Sabêan.

One other remark of the Periplûs, that the natives of Avalites are uncivilized, and under little reftraint, is worth noticing, becaufe it is in correfpondence with all the modern accounts we have, which defcribe the matives as treacherous beyond meafure, a quality, perhaps, not mitigated by the introduction of Arabs among them, or, the religion of Mahomet, but aggravated by inftruction, and pointed by fuperfition.

We have now four thoufand fadia to difpofe of, eight hundred to Malao, and a thoufand, or two days fail each, are "allotted to Mundus, \(\because\) to Mofyllon, and Nilo-Ptolemeon. In the diftribution of thefe d'Anville has acted wifely in confidering the diftances only; and though I differ from him in the following arrangement, upon the ftrength of one particular, "which is the mention of direating the courfe eaft from Mundus, it is not without diffidence in my own affumption.
\[
M A \quad \perp \quad A \quad \hat{O} .
\]
VIII. Eicht hundred ftadia, or eighty miles to Malâ, is more than fufficient to carry the pofition of this ylace to Zeyla; but the defcription given can hardly be confiftent with the fituation of that town in a bay; the anchorage \({ }^{288}\) is marked as aroad upon an open fhore, with fome protection from a promontory on the ealt. A protection on the eaf is more applicable to a coati that hes eaft and weft, but an open road is hardly confiftent with a, bay \({ }^{\text {i2g }}\) like that of Zeyla ; and the fecurity of the following anchorage feems. to claim that privilege for Mundus. The natives of Malaô. are defrribed of a more peaceable difpofition than their neighbours, and the imports are fuch as have been already fecified, with the addition of



\(M \varepsilon \lambda_{!}^{\prime} \varepsilon \phi \theta_{0} \dot{o}_{0} \lambda_{6}^{\prime} \gamma \alpha_{0}\).

इiómpos.


\footnotetext{
1as "Oguos \({ }^{\text {entirctos }}\), an open road. Suckius mentions Mergeo as its reprefentative, from Belleforef.
}
tured at Arfinoe or Sitez, with the knap on and dyed.
Brafs or copper prepared to imitate gold.
Iron.
Specie, gold, and fllver, but in no great quantity.
\({ }^{229}\) The whole curvature of the S. W. angle is called the bay of Zeyla, but Zeyla itfelf lies is an inner bay or harbour.

The

The exports are





Maxe!c.

Myrik.
Frankincenfe; thus, or blibanum of Adel.

Cinnamon, cafia lignea.
Cinnamon of inferior forts.
The gum cancamus.
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 ufed in dyfenteries.
Slaves, a few.

We have in this lift the frift mention of kafla, cafia, or cinnamon: It is all of the inferior fort, fuch as the coaft of Africa always has produced, and produces feili ; of little value in any manket, where it comes in competition with the cinnamon of Ceylon, but grateful to the natives, readily purchafed by thofe who cannot obtain the Oriental, and ftill faleable for the purpofes of adulteration. How old this traffick was is not eafy to be determined, but if the hips from Egypt' did not paifs the fraits when Agatharchides wrote, they certainly reached this coaft in the time of Artemidorus, as we

\footnotetext{
\({ }^{230}\) Triportkis muft be interpreted according modity was knowh at Alexandria, and then. to its reference; if it applies to the port.icfelf it is to be rendered fortion, not native: ljut it
 comes from the ports beyond the ftraits, to rifaia. See Perip. p. 8.
}
learn from Strabo, who mentions the baftard cinnamon, perhaps the fame as the cafia lignea, or hard cinnamon; he adds alfo, that the cargocs were transferred from the hips to boats at the flaits, a proof that this commerce was in its infancy, lib. xvi. p. 768.774 . Slaves are noticed here as an article of commerce, a circumfance common to both the coalts of Africa in all ages; in the prefent infance it requires no great ftretch of imagination to fuppole that the ancient traffick of Adel was parallel to the modern, and that the flares procured here would confift of both Cafrés and Abyffinians; according as the courle of war or the plunder of individuals fupplied the market, beth for home confumption and exportation.

\section*{MOUNDUS \({ }^{131}\), pronounced \(M O O N D U S\).}

1X. Tie nest anchorage we are directed to, is Mundus, at the diftance of two days fail, or a thoufand fadia: D'Anville fizes it at Barbora; in which he is jutified by the meafures. If I neglect the meafures, it is with regret, but there are circumflances mentioned, which induce me to fix Mundus at Zeyla, or at an ifland previnus, called Londi, by de la Rochette, and Delaqua by the Portuguefe, for Malaô and Mundus, in Ptolemy \({ }^{32}\), differ not in longitude; and his P.Iofyllon is a promontory which may be Darbora, but fuits

\footnotetext{
132 Tru'soo n' Midi. The true found is Moumbur, and whether the athor means to frise the native found, both in this Moondis and in Palctimoondus, (Ceylon,) or whethes it is a corruption of the text, may he dabiad. But the ufage is uniform, and theceriore formn to be wigig rather than are whet i'rondu: has a more Orichtal form tI in IIundes; and as Lotb this place and

Ceylon were pofibly fo named by the Arabiang who traded to both, it is natural to look to the A rabick for its meaning. See Perrpl.p. 6.

 Muidí, a mart, long. \(7^{8}\). lat. \(7^{c}\). Howeve: erroneons theie latitudea may be, their nontual relation hes a conf derable degrec of weight.
}
neither of the other two. Another confideration is, that the Peripius, though it does not actually affert that the dire Aion of the courfe to the calt commences as Mundus, yet mentions it here fir the firft time: this is trie, if Mundus be fixed at Zeyla, and this circumflance is the particular inducement for preferring it. The fafety of the anchorage here at an ifland, or under the prutection of an illand, is marked rich precifion; and if there be an ifland at Zeyla, the whole evidence is confiftent. Bruce \({ }^{13}\) mentions the ine of Zeyla; but I have found no other authority; and if he is miRaken, Mundus muft be carried back to Delaqua. But upon the authorities allegcd, Malao may be well fixed at Delaqua, and Mundus at Zeyla.

The native traders, at this port, are defcribed as an uncivilized tribc \({ }^{34}\), and the imports and exports fimilar to thofe of the preceding ports, with the addition of nokroton, a fragrant \({ }^{3 \prime}\) gum, the more peculiar commodity of the place.

MOSULLON, writen MÓSSTLON by Pling, MÓS Y LON by Proizury.
.X. At the diffance of two or three days' fail, or from an humired to an hundred and fifty miles, we are conducted to Mofyllon, the grand mart of the ancients on this coalt, the place which gave name to their trade and to the whole bay, in preference to Abalites, in the ellimation of Pliny. The diftance from Zeyla to Earbora is ftated at eighty miles by Oforius \({ }^{\text {ar }}\) : a circumfance not urfavourable to the two

\footnotetext{
\({ }^{133}\) V.I. ii. p. \({ }^{342}\).
134 Enarcirtst, duriorts.
3's a ،., aru; , inemfe.
}
\[
\begin{aligned}
& 136 \text { Oinrius, vol. si. p. } 23 \mathrm{~g} \text {. Marn ol, it x } \\
& \text { p. :56, make it only righ cen liggue. }
\end{aligned}
\]
days fail of the Perpitus, which, in ordinary computation, are equal to an hundred miles, and which will beat contraction or extenfion according to the curreats or the winds:

The character of Mofyllon 13 is on mited in the Peripluss but mat Ptolemy it is twice \({ }^{35}\) pecified as a pronontorys and by bis latitude it is carried up a whole, degree nore to the north than Mundus. This projection is doubtlefs too extenfye, but the feature is trac, and fints no other point on the whole coaft but Barbota, for \#3ats: bore \({ }^{139}\) is a tow upen an illatid \(\%\) clofe to the thores adjening to a narrew cape of confiderable extent, which is opeia, low, and fandy. Its want of height prevents it from affording protection againt the N. E. monfoon, and this may be the reafon thy the Periptus calls it a bad road. D'Anville has carried Mofyllon another ftep towards the eaf, to a river where he figds the mame of Soel \({ }^{\text {th }}\), and which he fuppofes related to Mofyllon; but the Petplys requires more tivers than we can difover at prefent, and this fiteam may well be preferved for Nilo-Ptolemêon an appellation in which undorbtedly a river is implied.

But there ts a fill greater probability amplied in the yery aame of Barbora, which is written Borbora, Barbara, and Berbera by

\footnotetext{
- 1337 It is remarkable that Juba makes the Univerfal EIffory mentions à riper at Marbora Atlantick Ocean commence at Mofyllon, ..by , called Howacha, vol. xiur p. 307 , which Lawhich we are to undertand that he confidered. the miople ocean which futrounded Africa äs commencing at Moryllon and terminating at Mount Athas , See Pliny, lib.vii.c. 29. Stuckius in leco. . Sce allo Gronevius's map for. P. Mela.
\({ }^{\text {r }} 38\) Niócunda


}
the moderos, retaming Aill the title of Barbaria, ateributed to the s cont by the ancients and as Anville has oblerved, that the name of the proxince became applied to the capital in many Eumpen citiess \(;\) fo have we in this part of the eaft the town of Arabia Felix, fo named from the province, and the Gme place affervards called Aden fron the country Adane. It probable, therefore, that Barbaria became applicable to Batbara, the principal matr on the coaft and if this be adnitted, it gives great weisht to the fuppofition that Barbora and Mofylon are the fame. . The Moffilitick coaft and Barbarick coaf weye fynonymous.

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

Silver plate, or plated.
Iron, but in lers quantityo Flint glafs.

\section*{Exports.}


Cintamon, of an inferior quatity, and ith great quantities; for which feafon, vefels of a larger fort are wanted at this mart.
derfand it as ommon, ordiary, of an inferior or cheaper fort. See Perip. p. 28. OfGrio, xudåor, ordipary eotome But the immediate addition


'Evódsts.



Abayos \(\pi\) tegqratros \({ }^{2+4}\)


ferior to that of \(M\) indus.
Fagrant gums:
Gums or drugse *o...
Tortoife-fiell, of Tmall fize, and in no great quantity.

Frankincenfe of the coaft of Adel.
Iyory.
Myrr, in fmall quantities.

The Morylitick trade of the ancients has been noticed already; and the cinnamon mentioned the catalogue is a fufficient proof of Arabian merchants conducting the commerce of the place. An inferior fort of cinmanon indeed is a native production \({ }^{r s s}\) but the Mofyllitick fpecies is enumerated by Diofcorides as one of prime quality, and confequently not native but Oriental. The immenfe, weath of the Sabêans, as defcribed by Agatharchides, moves that in his age the monopoly between India and Europe was wholly in their hands; but the other tribes of Arabia traded to lndia alfo and the Greeks of Egyp by degrees found the way to Aden and Hadramaut in Arabia, and to Monyllon on the coaft of Africa. Here they found rivals to the Sabên market, and fupplied thenfelves at a cheaper rate.

\footnotetext{
 of Arabia, which did always and fill docs pro- feen in the curious and fientifick collection of duce this aricie, or fromTridia, the incenfe of Dr. Burgefs ;' it is mall, hard, and ligncous, which, Niebihr fays, is better and purer than, with little fragrance. the Arabian; but it rather referstora reg
}

After ariother courfe of two tays or an herdxed miles; ware ccaducted to Nib-Ptoleméon It is the lat diftance fpecifed and may be terminated either at the boel of dAnville, or at Mete, where there is allo a river : the former is preferable, becaure the Periphis makes meation, of rive ryers at leal betreen Nilo-Ptolemêon and Aromata; and if we affume Soel for Nilo-Ptolcmêon, we can find two othe rivers; one at Metè, and another near Mount Elephant, which is the Elephant River of the Periplus; and "he Rio de Santa redra of the Portuguefe: Strabo mentions the name of Nile onstis part of the coatt

\section*{NILO-PTOLEMAION.}
XI. At Nilo-Ptolemenon we exhaut three thouland eight hundred out of the four thoufand fadia allotted by the Periplus to the range. of marts, which are called by the common name of Te-para \({ }^{5+6}\); ands fpeaking in a round number, it may be frefumed the author ef. mates his four thoufand as terminating at this place: this gives a meafure of four hundred Roman miles, where the real diftance is abont four hundred and fifty; a correfpondence certainly fufficient where there is no better eftimate of meafurement than a hip's courfe: and, renable as I am that the particulars of d'Anville ate better adapted to the difances at the commencement, the conclafiot of the courfe and the pofition of Mofyllon are more confiftent in the arrangement I have adopted. It is, howerer, at beft but hypothetical, and fubmitted to the fyture determination of thole who. may obtain a more perfeot knowledge of the coaft.

\footnotetext{
 tangunt et confequantur, Stucking. But it p. 8. and Stuckikis Com. p. 20.
}

But we are now arived at a pont th which there will be nothing equivocal. The promontory of Atomato with the two anfeitor ctpes. Elephant and Tabai, will bee defcribed with a piecifion in perfeat correfondence with modorn obfervation; and the circumflances are fo pecular that they befpeak the teftinony of one who delineated them on the lpot.

Marts, TAPATBGE DARHNON MKROS, EABDASS Prom Rivers EIEPHAS DAPHNONA MEGAS Or AK XAX
XIL The place which occur are Tapatege , the lerapaph nôn \({ }^{x+1}\), and Cape Dephant; the hivers are the Elephate and the greater Daphoon, called Acaniai Neither place or diftace: are affigned to any of thele names, but we may well, allot the river Daphnon and Elephant to the fyonyruous town and cape \(;\) and thefe may be reprefented by the modern Mete and Santa Pedra: The river at Mete is deferibed by the Poituguefe as dry at certain Reafons When they landed here under soarez in in great diftefs;
- 4 The Wiecha tranfation of this pance runs thus: "Salling:along the coait two days «from Morylow, you neet wih Nito-PtoleWInaion, Tapautegy the lefler Daphasi, and of Cape Eleplant: \(4, \ldots\) then towards the " roith weth, (ous Aisa, ) the country has. (two)
 re the Gther the greater Daphoon or Alian " mat. . . \(\%\).o. after this the coall inclining,
 (ac marit of Arbmata, anid its, promontory, 4 whinch ra the feemmation of the Barbarick st coaft, and a projection more vaflery than, "Apokopa:"
The text is po veryorrept an his pate of the work, and the ppoints of the compafs fo" difordant, that, after ieeing 'Mer: Gofletin's,

they
they found the place deferted and no water in the river: but a woman whom they feized directed then to open pits in the channel; and by following her advice, thoir wants were relieved. Commodore Beauliea, who anchored a few leagues north of Gardefan, received finilar infructions; from the natives with the fane fuccefs. Thefe circumfances are mentioned to dentify the cxiftence of rivers on this coaft; and I think candifcover in the map, framed by Sanfon for the French edition of Marmol, that the learned geographer paid attention to thete rivers of the Periplûs.

Cape Eephant is formed by a mountrin confpicuous the Por tuguefe charts, under the name of Mount Felix or Felles, from the native tem, Jibel-Feel ; Iterally Mount Elephant, The cape is formod the tand jutting to the north from the dixection of the coaf, which is nearly eaft and weft and from its northernmot point the land falls of again fout eatts to Cape Gardefan, The Aromata of the ancients.

But we have the authority of the Pottugefe for a river at Dete, we learn from an Englith navigator the fame circumfance at Jibbel-Feel. Capt. Sanis \({ }^{253}\), in 1611 , ftood into a bay or habbeur here, which he reprefors as having a fafe entrance for three mips
\({ }^{550}\) An intelligent French Commander, in 1619 , whote yoyage is publifhed by Melchizedec Thevenot, and infertid ib Hamis. The pits Beaulien opened were on the fhore:
\({ }^{2} 5^{\circ}\) Jiblel Feet, Arabick, from the Heb. 32
\(\because\) Rruce is angry at the mifnomer of Telit. Perhaps other names in the Periphas would admit of tranfation, if we knes the language to refer to.
 caufe, according to the anthorsiows 5 ftem, Aromata is the fattemmof poiticol Antica.
\({ }^{153}\), Saris calle the place- Feluke, from the Portuguefe Felto, but as le defrribes it between Gardatụ, and-Demety, [ Metè, ] there "an be re mitake:" Purchas' 8th voyage of the Eaft India Compatry, vol. in P. 340 .
a-breaf, and that both wood and water were in plenty; he adds alfo, that feveral forts of gums, very frieet in burning, were Ailt purchafed by the Indian flips froni Cambay, who touched here for that purpofe in their paffage to Mocha.

The whole detail of this coaft, from the ftraits of Bab-el-Matudeb to Cape Gardefan, is principally derived from the Portuguefe, who ravaged it under the comund of Soarez, in the years \(\times 516\) and 15.7. Corfali, whofe account is preferved ta Ramufo, ferved in the expedition. Soarezi \({ }^{\text {sf }}\) had been fent againt the Turking force collected in Arabia, a lervice which he conducted with great ignorance and ill fuccefs." The diftrets of his fleet he endeavoured to relieve by plundering the coaft of Adel; Zeyla, Barbora, and Metè weré deferted on his approach, where little was obtained. Zeyla is defcribed as a place well built and fourifing; but of Adel, the capital, little is to be found. That the power of the kingdom was not injured by thefe ravages appears from the fuccefs of its arms againft Abyffinia between this time and the year 1564 , which extended almoft to a conqueft, with encreafing hatred againt eyery thing that bore the Chiritian name: Litte is known of this country fince the decline of the Portuguefe, but that the goverament is Mahometan, and thé governed are removed but a few degrees from the Cafres of the coat below.

At the marts which fucceed Nilo-Ptolemêon in the Periplus, no articles of commierce are fpecified, except frankincenfe, in great quantity and of the beft 'quality, at Acannai. This is fyled \(P_{e-}\) ratick \({ }^{j .5 s}\), or foreign. Buf it cannot be admitted in that fenfe as to

\footnotetext{
154. This expedition is found in Oforius, di , \(155 \%\) negitixios: Barros, Faria, and Bruce.
}
the commodity ilfelf, for it is noticed exprefsiy as a natire \({ }^{156}\) produce of the place. Still it will lead us to folve a difficulty already noticed in regard to thefe ports of Barbaria, called Ta-rera, which, by a fight correction \({ }^{\text {'st }}\) of the texit, will fignify the ports beyond the ftraits. . The articles obtained here would naturally be ftyled Peratick, from (Pera) beyona, and would be known by this title in the invoices, and the market of Alexandria, in contradiftinction to thofe obtained in Sabea, Hadramaut, or India. The author is writing to Alexandrian, and is confeçuently fpecifying the precife ports where thofe commodities were obtained, which they knew by the name of Peraick.

This is not the only difficulty in this part of the work before us: the quarters of the heaven are dubioully defcribed; the fentences are ill connected or imperfect. There is at leaf one interpolation \({ }^{\text {'s }}\), or a corrupt on equivalent; and it is not known that any manufcript is in exitence, which might lead to a correction of the

\footnotetext{

 "elpecially the Peratick frankincenf: in " greazelt quantity, and of the belt quality, is "produced." All the teltimonies of the ancients unite in fuppofing Thus or Frankincenfe to be the pecaliar native produce of Sabea. But Bruce and Nichuhr both agrec, that it is not a native, and that the beit is not produced in Aralia, but procured from Adel and India. But in Arabia the ancients fird met with it, both produced there and imported. How correfpondent is the cvidence of Bruse and iviebuer to that of our Alenandrian res. chant!
\({ }^{157}\) Tix miso, the ports beond th: Atraits.
} See Perip. p. 8. т'mism.

\footnotetext{
 - \(\quad\) \%ougis 7 The five concluding words are a manifet interpolation, becaufe we are not yet arrived at \(A\) :omata, and Oponiz is fubfequent. From Aromata to Cpónc the tendeacy of the coalt is fouth weft; and from Opone it conttinue; the lame: but from Elephas the coalt lies fouch calt to Aromata; and Elephas is nfit connectud with. Opónè af all. Stuckias find Fudton beth clomplain of the comrnet fite of the iext. And Sigitmundns Guthus, who publifled the firth edition at the prets of Trobenius, Wafil, 532 , in his Prefatory Epilke, taikes po nosice whence he had the manufeript. Bece edit. Froben, Bafl, 1532.
}
text. Under chefe circumfances, indulgence is due to the attempts which have been made to preferve; in any degree; the connection and confiftency of the narrative:

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


Beaulieu, who anchored within four leagues of Gardefari, defcribes * it as a very high bluff point, and as perpendicular as if it were farped. 'The current' comes round it out of the gulph with fuch violence that it is not to be ftemmed without a brifk wind, and during the font \(w e f t m o n f o o n\), the moment you are patt the cape to the norti, thete is a fark calm with infufferable heat.

This current, me may conclude, is not contant, and probably depends upen he direction of the winds; for Faria mentions a fhip that was feparated on the coaft and carried to Zeyla by the current.
\(i_{s y}\) It is very remarkabie thaz the latitude this coaft, which was vifited every year by of Ptolemy fhould be fo Yery erroneous on merchants he mul bave feen at Alexandria.

And Purchafe \({ }^{\text {sob }}\), from Fernandes, afferts, that the current fets into the gulph during the increafe of the moon, and out of it upon the wane. The current below Gardefan is noticed by the Periplius as fetting to the fouth, and is there, perhaps, equally fubject to the change of the monfoon.

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 \({ }^{68}\), as it appears upon many of the charts; Gar-defan, he fays, fignifies the ftraits \({ }^{162}\) 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 omencd or lefs alarmed.
\[
\mathrm{T} A \mathrm{~B}^{*} \mathrm{~A} \mathrm{I}
\]
XIII. At Arômata the Periplûs marks in the moft pointed manner, that the coaft falls in to the fouth ; and in another place fpecifies its foutherly or fouth wefterly direction to the limits of ancient difcoeery. But before it touches upon this, another cape is marked, called Tabai, which anfwers to the dOrfui \({ }^{163}\) of the Portuguefc, about feventy-five geographical miles fouth of Gardefan. And this is Aromata, with its two inferior capes, defined as precifely by the Peripinis as Gardefan could be by the belt geographers of the moderas.

\footnotetext{
xen Faria, rol. i. p. 15 S. Purchafe, vol, i. E.751.
the Vul. i. p, 443.
\({ }^{262}\) A a cror, perhaps, for cape, inid.
\({ }^{163}\) Harris, in Beauieu's Voyage, calls it Orpin. Beaulieu lay near two montls to the fouthward of Orpia or Tabai. Firris, \(i\). p. 726. Orpin arproaches to Opsnè.
}

The author exprefsly mentions alfo that Arômata is farther eaft than Apokopa, and actually the mof eaftern point of the continent; the anchorage; he adds, is totally expoled, and in fome featons very dangerous, becaufe it is open to the north. The certain'prognoftick 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 inftantly, and fly to Tabai for thelter: : This remark is the more valuable,' as the author hinfelf mentions it rather as the effectof an accidental change of the wind than of the monfoon. But as we have obferved before, that in the fouth weft monfoon, Beaulieir found a dead calm to the north of Gardefan; from the fame caufe, in the feafon of north eaft inonfoion

With this delineation before us of the moft prominent feature on the coaft, whatever failure "mayy, be" difcoveted in fixing the ftations from the fraits to the cape, it can by no means difcredit the originality of the work. Difance of time, the changes of power, or commerce, may have defaced the particular features we bave defcribed, but the general appearance of truth and fidelity is indifputable. If any accident fhould lead an Englifh navigator again

\footnotetext{
: \(x^{\prime 3}\) Orfui is written d'Orfui, Arfur, d'ar: fur, and Catur, poffibly foir Cape Arfur; but the true orthography feems that of Bertholet, who whets d'Affu; or, perhaps, as Reffende does, Daflui; apparently the fame word as Tabai, if we confder that the Greek pronunciation of Tabai is. Tavai, and that 'Tavai, Daval and Davai, naturally guproach Daftui; bat I Sonfign this to futare inguiry upon the foot; and fiture inquiry may likewife detemine whether the two capes Daffui
and Gardefui are relative appellations, for this I fufpect, and think it polfible that the relation may be difcoverable in the Arabick : the fame relation holds geod in another form of orthography, which is Afun and Garde fun, Could I arcertain which was right, Y thould as ready conjecture that Oponé [or Ophóncé] was Afun, asthat Tabai was Daffui. But there is no end of conjecture, without a knowledge of the language:
}
to this barbarous and neglected coant \({ }^{\text {ns. }}\), it is wery polfble that the aefcriptions of places, brief as they are, may be recognized by a judicious obferycr, and the ancient narrative, be eftablifhed on modern inveltigation.,

The articles of commerce obtained at Arọmata we may collefa Prom is tule; for Aromata, (although Salinafus informs us it is the name for drugs in general, in this journal, at leaf, fignifies gums \({ }_{3}\) foices, odotrs, and fragrat productions of every kind; The veffels which traded here we may fippofe anchored to the north or, fouth of The cape according to the feafon, and mut have received or delivered their cargoes an boats and rafts, as has been noticed at previous anchorages. The chantre of the monfoon mut heverife have been watched, as it is noticed in the Periplas; no paticulars of import or export ane however mentioned herei but at Tabai or d'Orfui, it is faid; that they brought the famearticles of commerce as to the coall above, and received the following commodities in exchange, which were native:

1
\(\vdots\)
Kafora.


Cinamon.
Cinnamon of a fmaller fort
Cinnamon; ordinary: Tragrant gums; but as inferted here, perhaps, a fpecies of cinnamon.
+ ses In the flect far to cruize at the mouth of the Red \(S\) ad, in 1798 and x799, when the French in Egypt were fuipected of an: "urention to efcape to India, fome inteligent Englifh officer niay have made obfervations.
which would contribute more to folve the diflculties of this nävigation than any' which can be collected from the documents which have been publined.

> Móy \(\lambda \alpha\), Morac \(\quad \therefore \quad\) Cinamon of inferior quality Aibavos.

At Arômata terminates the modern kingdom of Adel, and the Barbaria of the Periplûs; and here the coaft of Ajan or Azania commences; in which our author is more correct than Polenixy, who extends the limits of Barbaria farther to the fouth. Azam \({ }^{156}\), or Ajam fignifies water, according to Bruce; and in this fenfe is applied to the weftern coaft of the Red Sea, in oppofition 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 mof defolate hhore, where hardly the name of a habitable place occurs in the modern charts, and where the"Periplûs, from Opônè, is a total blank. At ApöIopa, the Cape Baxos [or Shoal Cape,] of the Portuguefe, connmences the coaft of Zanguebar, fo called from the inland of that name, the trace of which is preferved the the Zegifa of Pto lemy.

The following table is now fubmitted to the teader, will a juft confidence in its genexal correfpondence, but not without requefting a candid allowance for poffible exror in fome feve particulars:

\footnotetext{
155. A kingtom called Adea is placed here fus; but the patives, he fays are calld HaWy the maps; but the authors of the Univerfal ' diens, i. e. "Alans, whence the corruption into" Pitory deny its cxifince, and fo dacs Ludol- Adeans and Adea.
}

\section*{Coaft of Azania from Cape Arômata to Rhapta [and Praffum.]}
[N, B. D before the name of a place marks D'Ativille, * Poitts fuppofed to be afcertained. 2. Doubtful.]
\begin{tabular}{|c|c|c|}
\hline \multicolumn{3}{|l|}{\multirow[t]{4}{*}{\begin{tabular}{l}
Peripilas. \\
Allowed: \\
I. Arómata \\
II. Tabai \({ }^{102}\) \\
III. Opônè \\
Four hundred Tabai round nefe, heace the ftill more to th \\
400 current ajijo foutb. \\
IV. \\
V. Apókopa th \\
VI. Apókopa th \\
3000 Six days fiff, a tiged, but none the maps. \\
VII. Little coaft VIII, Great coaft 3000 Six days fail.
\end{tabular}}} \\
\hline & & \\
\hline & & \\
\hline & & \\
\hline
\end{tabular}


7300

Q6. Petween Aromata and Tabai it is called the Bay of Belha or Reyla.

208 It has been fuggefted to me that Fancpros might allude to Itave Egfownot, but there is only mere conjelare to guide our inquiries. Yhave fuppored, upen no better ground, thap Offup might be concealed in Opros ; but Ptolemy writes Panôn Kômè. The village of Panobn, or the villact of Pans and Saryis? A name, perhaps, given from the rude mppearance of the natives. It is remarkatie thit the Peripfos footd mention men of sigantick flature on this coaft ; and that Benuliet, certainly withour any hoovienge of the Periplas, flenld notice the fame appearance, Ses his Voyage in Harris and Melchiz. Thevenot, he paffed the

 ftance inceed is at Rhapta.

169 Ptoiemy's Azania pommences at Zengifa. See lit, i. c. 17. Zengifa and Phalsngis have both the fame latitude, and may be identified with Morro Cobir, if that has three points. The term Zengifa is curious, as related to the coaft of the Zinguis or Cafrus, fo early as Prolemy.

170 Phalangis is deferibed as a forked mountain with three heads. Ptol. lib, i. c. 17. This gives it a charateor which will enable any future navigator to fix it for a certainty,

375 It is remarkable that Ptolemy, lib. i. c. 17 , where he der talls this coaft, makes no mention of [ [Nore xifacs] the Sopthern Hom.

372 Two degrees thinty feconds is certainly an error, as the account is carried to the fouth.

\section*{\(\times 3^{6}\)}

PERIPLUS OF THE ERYTIIREAN SEA.

173. There is an Afun twhich Spucklus from Belleforet fuppofes to be Effina; but it is only one more eorruption by vriting A un for Afun, which is the fame as Aftui or DAffui. This may be proved by confulting Barbofa in Kamus : vol, i. P. 290, and the Modern Univerfal fiftory, vot, xil \(p, 307\). Pelleforeft is of littie authority. He wrote 2 Cofniogripgy in 3 vols. Sol about 2560.

\footnotetext{
Tク4 NuxO \(\mu\) ffouc . ..... T


175 Prafum, from Prafos, green. Marcian. Herac, apud Hudfons, p, 12.
}
N. B. As page 326, note 147 , the cbange of At anata, imputed to Mr. Geffin, is not founded, and I take this opporsurity of recalling the ingutation, as the corrcaion was too late for the prefs.

\section*{Obforoations an lbe foregcing Tall:}

If it were at any time allowable to buik on the meatures of an ancient journal, it might be prefumed that the prefar infance afords grounds for it, juftifable in an uncommon deghe. The latitude of Gardefan, according to dinvile, is \({ }^{176} 11^{\circ} 45^{\prime} 0^{7 \prime} \mathrm{~N}\), and that of Quiloa \(8^{\circ} \cdot 30^{\prime} 0^{\prime \prime}\) S: \(5^{77}\) making \(20^{\circ} .5^{\prime} 5^{\prime}\), where the Periphis gives \(19^{\circ} 45^{\prime}\), an approximation never to be exnected in eftmates of this fort, and liable to fufpicion merely on account of its correfpondence But let it not be maginge wat Qailoa or Cape Delgado are affumed for Rhaptom from the lifances of the journal, becauf, if they cannot be fuppoited by circumitances, they may juntly be abandoned.

Whatever may be the corruption of the text in Eitenediommenowthefas \({ }^{78}\), all the commentators, with common feafe in their favou; are agreed; that the latter part of this Aravge phaifylable points'out the illand Menuthias; and the fuffages greaty'preval in Rayour of making this ifland the Zanguebar of the moderns. Now there are three inands almoft in a line, Pemba, 峟angucbar, and Monfa, placed between latitude \(5^{\circ} 30^{\prime} 0^{\prime \prime}\) and \(9^{\circ} 0^{\prime} 0^{\prime \prime} \%\). All the iflards lie (as the author afferts of his Menthits) , thout three hundred fadia or thirty miles from the coaf, and there is no other inland in the whole range from Gardefan to Quiloa, which anfwers to this defcription, but thefe three. One of them; therefore, doubt lefs is Menuthias; and as Zanguebar is the centre, the molt confpicul.
\[
7^{376} 12^{\circ} 0^{\circ} 0^{\prime \prime} \text { alii. } 370^{\circ} 0^{\prime} 0^{\prime \prime} \text { alii. }
\]

\section*{138}

\section*{PERIPLUS OR THE ERYTHREAN SEA.}
ous, and the one which gave pame to the coaft in all ages \({ }^{770}\), it is with great juftice that we fhould give this the preference. Two adfitional circumfances confirm this, the Pyrakan illands are two thoufand fladia previous, and Rhaptum one thoufand fadia fub fequents Neither of thefe difitances are inconfitent: \({ }^{\text {sso" }}\), if we affume Mombaçan for the Pyraláan 'ifles, Zanguebay for Menuthias', and Quiloa for Rhaptum : and that we may affign the Pyraláan illands jufly to Mombaca there is great reafon to believe; becaure they are evidently clofe to the continent, and notat thity miles diftance tike the other thiree; and becaufe notice is taken of a new cut or canal, whick intimates the continent in its vicinity, and cannot upply to an inand whice lies in the open fea, Add to this, that Mombaça, is on an tiland in a bay, feparated by a very, narrow chaniel from the main, and we have the a circumfance parallel ? to the new canal of the journal, a work which might as well have Been execucel for protection or convenience by the Arabs who

\footnotetext{
 the name. Zingi, of the coath of Zingi, is have been done away by a cut of this fort. found in all the Oriental writery; and Zinzibay in Marco Polo". Zinguis are blacks ox Cafresín baccoraing ta the Univerfal Hillory, vol. xiia and Zangucibat the Cafre coatt.
\(\because\) so They wound fuit Better with Monfa ananZanguebar; but the reafon for preferring the laster is.ftated here, and will be confidered more at: kargé prefenty.; N. B.' Dinate de Xemos, in 150 , landed at Zanguebar and dfove the natives to the, mountains; a proof that it is nota iow inand ás Nenuthias is defrribed. by the Periplus: Fatia, i. pi 158 .
igyt Caftaneda: Speaks of Whombaca' as an inane bard by the fint land, p, 22. Oforius

Fania calls it'an inhand made by a miver which falls inito the cea by two mouths vol, i. p. 4r. Sec the inand delineatidin a Portuguefe imp, Melcliz: Thevenot, vol. i, part 2". It is jopied to the continent at low-water by, ä caufey. Marinol, Dib, x. p. \({ }^{\prime}{ }^{\prime} 0.0\). Fr. Ed. and the Univeral Elifory writes; © The city was once "a a pehinfula, but hath fince been made an " inand by cutting a calial through the
 fange ninghit vith equal propriety and on equal grounds, have taken "place the the age of the Periplots: for the fecurity of the ancient Anabian fettlers as of the modern:
} fiysitat on a high sock with the fea amon
fettled there in thofe eatly. ages as bry thofe whom the Portuguefe found there, three centuries ago \({ }^{182}\) :

It now remains to be oblerved, that the preceding table manifenly proves the correpondence between Ptelemy and the Periplûs. The. names of the places differ little, and both accounts terminate at Rhapta; for the Prafum of Ptoleriyy is not ranged under his detai of this coaft, but is introduced in another chaptcr incidentally, bounding over feven \({ }^{183}\) degrees at one flep, without the intervention of a fingle circumetances or place. This Prafum he has by his own confeffion fised from conjecture only ist and this, whith his Menûthias, clearly diftinct from the Menuthias of the Peripitys, will be confidered in its proper place. - I mult now, add, for the credit of the Peripluts that it carries that appearance of confifency with it, which would naturally attend it, if compofed by a voyager from his journal, while the catalogue of Ptolemy is by no means in barmony with his commentary \({ }^{10}\)

\section*{AZANYA, Coaft of AIA in}

The Peripius is entitled to no fmall thare 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 Prolemy is not confitent with the natural

\footnotetext{
xsz Mombaça was taken by Aimerda:
"xp3 Rhpaton Prome \(8^{\circ} 20^{\prime}\) 12", Prafum, * \(5^{\circ} 30^{\circ} 0^{\prime \prime}\).

c. \(\frac{.}{7}\) verere dpöne is fix days' fail from Panopros or papon, while the latitude difers but fifteen mintites, at p. 142 . Marciar, bis copyit, was fo fenible:bf this, that he has not ventured to give the fiadia on this coait. See infra.
}
divifonts of the country. The A palick gulph terninatiog at Mount. Eephant he ityles the coant of the Troglodytes, bue whe Perphs refuains this apellation to the country that forms the margin of the Red Sea, ad terminates at the fratts, and from the fraits to Cape Gadefan, the athor calls it Barbaria so correfponding naturally, with the dinits of the moderin Adel. At Gardefan, the kingdom of Aden con conences the coat of which is Ayled Ajan, in perfect harmony with the Azanna af the Periptûs. But Ptolemy, whocommences his Barbara at Mount Elepliant, carries the fane appellation dow to R tapta, which he calls the metropolts, and conlequenty removes the commencement of Azania beyond the boundary which is in redity its termination. "The Periplus, it is trie, extend this title beyond the hanits of the modern Ajan; for the coalt of Zanguebar commés with Gape Baxos, or at fathen with Melinda, while the Feripuis canties on Azana feveral degrees fatther to Rhapta; by which it appears that the author was not informed of any change in the name to the utmoft estent of his knowledse.

There are, however, divitions of the coaft and boundaries fixed, Which appear corvefoudent to thofe which the Portuguefe found upon their arival. Thefe are preferved in a manulcrpt map of Bertho tet's inferted in R effende, and firongly confrm the opinon that the anthor of the Perplas decribes rather what he Saw himele than what he collected from others.

\footnotetext{
ses Batharia is the conflane term of Al- the Uiverfal Hitory.
 is fald a town on this coaft, and to all appestance the Mofyllon of the anciento.
Arg An inginary kiogdom, accorling to Indanorum inperium aciebat:
}

The firt divifou of Betholef comprehends the tract from the bay facceeding: Cape d'Aflui: to Cape Baxos, anfwering nearly to the Opoine and Apókopa of the periplus.

Cape de Gardafui" - Gardefan - Arômata.
Enieéada de Belha - Reyla bay.
Cape d’Afui - \(\because\) Arfur, Carfur Tabai.


The fecond divifion takes the general name of Magadoxo from the pringipal town, and anfwers to the Little and Great Coaft of the Periplûs.


The third divifion is by illands and tivers all the ways correfponding exactly with the number of feven rivers, as fated by the Periplins.


Zanguebar is a native appellation given to the coaf from the ifland of the fame name, It is noticed as carly as the two Arabian voyagers and Matco Polonos. M, Polo calls the coaftheile of Zanzzibar, and gives it a circumference of two thoufand niles, evidently applying it

\footnotetext{
\({ }^{259}\) It is rruitlefs to allot Serapioin' or Nicon ro any particular name; but the correfpond. ence of leven rivers in the aricient and modern account is highiy remarkable:
sgo The douipts which were entertained consering the authenticity of the yoyage of thefe

Arabians, publifhed by Reaandot, have been fuilly cleared up: The ory inal has been found in the Royal library at Paris, the exiftence of whech had been confidently denied by Martin Folkes, and outher very learned men.:
}
to the then undifovered connty of Lower Africa. In the two Arabians and other Oriental witerswe read the fane name given to this trace, with the title of Zingis or Zingues applied yenerally to all the inhabitants of the eaftern coaft of Africa.
The frit trace of this word is found in the Zengifa of Ptolemy? which he places at Mount Phalangis on the"coaft of Ajan, anfwering, as far as I can difcover, to the Morro Cobir of the Portuguefe. It is poffible 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 Periplês. Ifurpect Menuthefins; the term ufed in that work, to be equivalent in its application to the extenfion of the modern title of Zanguebar, from the iflind to the coaft,
\[
O^{\prime} \mathrm{P} \hat{O} \mathrm{~N}
\]
XIV. Arter thefe general illutrations we are now to proceed to the particular places on the coatt and the firt of thefe is Oponc, which is honoured with the title of a mart \({ }^{192}\) both in Ptolemy and the Periplus. The diftance affigned from Tabai of four hundred ftadia, or forty miles, makes it correfpond fufficiently with Ban-delCaus, which is a bay, or, as its name implies, a port \({ }^{193}\). Opin is a
agt Zengi (witk the \(g\) hard) is the Perfian term for Caflees, and the difinction betveen them and Hhabaff, Abyffinians. India Eiterata, Valentiry .po \(3^{8}\) y. Kiaferah, Cofari, Caffres, are in mon Oriental writers diltinguifhed in the fame manner, and confidered as Zinguis, oppofed to:Abyfluians and Arabs. There is a hiffory of the Zingi hy Novairi an Arab, in the Royal Library at

Paris. Herbelet.
 but "oguor are fometimes \(\bar{z} \mu \pi c_{c ̧ a x}\).
\({ }^{293}\) Bandeli, is a corruptioni, of the Perfian Bender, or Bunder. A very undefined term for a port, harbour, toad, or lamang place. The bay, or rather the faling in of the land foush of Daffui, is salled. Galce in Reffende and Eertholet.
name which occurs in the map of Sanfon, inferted in Marmol; but whether there be any modern authority fur it may be doubted, for Sanfon was not unacquainted with the Peripitus, and he may have affigned a place accordingly for the Oponè of the joutnal. The mention of a current fetting round Tabai, or Cape d'Offui, down this coaft, is in all probability confiftent with the experience of voyagers in that age; but whether this current is conftant or changes with the monfoon, mult be determined by thofe who vifit this coaft in different feaions of the year. Stuckius oblerves that, according to Bellcforeft, Opònè is Carfur, of which he ingenuoully confeffes' 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 pofition of Opônè.

The imports here are the fame as thofe fyecificd at the anm chorages preceding.

\section*{The Exports are,}
\begin{tabular}{|c|c|}
\hline K \(\alpha \sigma \sigma\) ' \({ }^{\text {a }}\). & Cinnamon, native. \\
\hline "Aряija. & Fragrant gums, native. \\
\hline Motw. & Cinnamon of inferior quality. \\
\hline \begin{tabular}{l}
 \\

\end{tabular} & Slaves of a fuperior fort, and principally for the Egyptian market. \\
\hline  \(\pi \tilde{r}_{5} \tilde{\mu} \lambda \lambda \eta \xi_{0}\). & Tortoifefhell in great abundance and of a fuperior quality. \\
\hline
\end{tabular}

The feafon for falling from Egypt to all theie ports beyond the ftcaits \({ }^{\text {iot }}\), is in Epiphi, or July, and there axe many articles of commerce'regularly \({ }^{\text {tes }}\) inported here fromi the narts of Ariake [MaJabar roo,] and Barygaza [CamBay, of Guzerat]; Guch as,

\author{
Kirtog. \(\therefore \therefore\) Corn:
}
"OjuGar ..." \(\quad\) Rice.

Butter, gliee

○ \(\theta_{0}^{\prime}\)
-rgp

Safhes.
 \(\pi \alpha^{\prime} v \chi \alpha{ }_{\beta}\)

Many veffels are employed in this commerce expresty for the inportation of thefe articles, and others which haye a farther deftindtion, difpole of part of their cargoes on this coaft, and take in fuch commodities as they find here in return.

This paffage I have rendered literally, as containing one of the nof peculiar circumfances in the ancient commerce of this coaf.
rof Ta migur. Sec Meriplus, pp. s. s. an article of thade from all the weftern coalt Tйгияен, compare.
\(\therefore\) "95: Zumbus, vfualty, cutiomarilys.
505. Matabar is properly the coaft lower fown tawards Cape Comorin; ; but the whole wefternicraff takes this name generully: Arim ake is confoned to the part betreen Guzerat and Bombay.
\({ }^{297}\). Chise or butiur in a balf licquid flate is of India; to the Mckrans to the Gulpt of Periia, and tho coant of Africaw In fadia it forme a part of every facrinice, and amoft of every meal; it his in as much requelt as oil among the Grexiks. . Some traveller has re.marked that the tafte for greaig is univerfal; from the whate blubber of the Greenlauders to

It manifefty alludes to an intercourfe, totally diftinct from the navigation of the Egyptian Greeks, carred on by the native merchants of Guzerat and Malabar, with the inhabitants of the coaft of Africa, whom we fhall prefently find to be Arabs; it fpeaks of this intercourfe as eftablifhed \({ }^{\text {ios }}\), and that feemingly 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 each mart has its own peculiar foyereign \({ }^{199}\); it prefents a piquure both of the trade and country identically the fame as the Portuguefe found them after an interval of fifteen centuries.

I cannot contemplate this portrait without indulging my imagination, in fuppofing that the Eaft India trade exifted in this form, as long before the interference of the Greeks, as it continued aftet the deftruction of the Roman power in Egypt; and that the nature of the monfoons was perfectly knowfi to the inhabitants of the two oppofite coafts, as many centuries before it was difcovered for the Greeks by Hippalus, as it continued afterwards till the arrival of Gama at Melinda.

APOKOPA the Lefs, APOKOPA the Greater.
XV. Front Oponẹ the Periplús conducts us along the coaft of Azänia, tending fill more to the fouth weft, to Apokopa the Lefs and the Greater. The diftance is fixed by a courfe of fix days,

\footnotetext{
\({ }^{208}\). Euriger. \(\quad\). ought to be fuch, if, thefe tribes had been
 Arahe on this coaft as fpeaking a different/ before he wrote, as it evidently appears from language from that of Arabia, and 'unknown the Periplthe that' they were. ty the Arabs of his age, p. 24. The fact
}
equal, by eftimation, to three thoufand fladia, or three hundred ?miles, without any notice of an anchorage or a matari without \(>\) mention of any article of commerce as delivered or received; even in this a refemblance is preferved with the modern appearance of the coaf, 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 voyagets, has condemned this tract to fterility and defolaron in all ages.

Ptolemy mentions Zengifa next to Opone, 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 obfervation of any voyager who inay vifit this coaft will correct my error; if I am miftaker in allotting Zengifa to Bandel d'Agea, and Phalangis to Morro Cobir, I find no other mountain on the coalt of Ajan; and the correfpondence of Apókopa the Lefs with the Apokopa' of Ptolemy, as well as Apokopa the Greater; with his Southern Horn, gives fuch an appeatance of conflemey to both authors, that it confirins me in the arrangement I affume.

Andwering to Apókopa the Lefs we find a Zorzella in the maps, though we have nothing either in our ancient or modern accounts to determine the relation; but the Southerra Horn is maniferty a cape : it is noticed as fuch by Prolemy; and the bbrcurity or corruption of the Periplus, which intimates an inclination to the fouth weft \({ }^{200}\) at Apokopa, (however dubioully applied to the cape or river, ftill proves a connexion between this place and the Southern Horn. Both allo commence the following ftep with the Great and Little

\footnotetext{
200 Stuckius; p. 30 expreffes the fame \(A\) iba in the Periplus points out the Nérexigos opinion, and concludes that the nention of. of Ptolemy.
}

Coaft ; and confequently, 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 Portugucfe, I am not only directed by d'Anville \({ }^{30 \%}\), but confirmed by the detail of the coalt. And that the Peripitis means Apókopa for a promontory is clear from a previous paffage, where, when it is flated that Cape Arômata is the moft eaftern point of all Africa, it is peculiarly marked as more to the eaft than Apókopa; a certain proof that Apókopa itfelf is alfo a promontory; and if fo, there is nothing within diftance notth or fouth, which can anfwer to it, but the Southern Horn of Ptolemy, and the Cape Eaxas of the moderns. The mention of a river \({ }^{202}\) here by the author is the only circumftance for which we find no equivalent in the modern accounts.

It is worthy of remark, that the termination of ancient knowledge on the weftern coalt of Africa was a horn as well as on the eaftern; the weftern horn \({ }^{203}\) is a limit to the voyage of Hanno, and the geography of P. Mela, as this Southern Horn formed the boundary of the eaftern coaft in the age of Strabo \({ }^{204}\). But difcovery had

\footnotetext{
\({ }^{201}\) Geóg. Anc. vol. iii. p. 62.
202 The paffage itfelf is apparently incorrect to a degree.

203 This is fometimes alfo called the Southern Horn, but by Mela, Hefneri Cómu.

 "Southern IXom is ihe lef promontory on this "coaft." But it is not quite certain that the Southern Horn of Strabo is the fame as Ptolem my's, as he mentions it in one place as next but one to Mount Elephant, and in that cafe it would be Aromata; he has the names of feveral places from Artemidorus, correfpondent in
}
fome fort with thofe of the Periplus, which prove, that if in the time of Agatharchides the veffels from Egypt went only to Ptolemáa: Thêrof, they paffed the fraits in the time of Artemidorus.
"A \(2 \lambda\) ris Ninas, anotherNile \(=\) Nilo Ptolemêon. Daphuns \(=\) Daphnona. Libanotrophus prom. Ak kanai? Arômatôphori \(=\) Aronata? The mention of feveral rivess alfo with Mount Elephant, \&c. \&c. proves the exiftence of a trade here and a kuowledge of the coatt, but it is not dillinct.
advanced to Rhapta before the writing of the Periplas, and to Prafum in the time of Ptolemy. By comparing this progrefs of knowledge, it feems as well afcertained that the author of the Periplûs is prive to Ptolemy, as that he is pofterior to Strabo.

XVI. We come now to the two laft divifions of this navigation. The firft diftinguilhed by a courfe of fix days, and the latter by one of feven. Six days are attributed to a tract calied the Little Coaft and: the Great, on which not a name occurs, neither is there an anchoragenoticed, or the leaft trace of commerce to be found. We are not without means, however, to arrange thefe courfes, as during the laft divifion of feven days a river is fecified at each anchorage, and wecan difcover precifely the part of the coaft where thefe ftreams beginto make their appearance. The intermediate fpace, therefore, between Cape Baxas and this point muf be attributed to the Little and the Great Coalt; and the termination of it may be fixed at the modetn Brava, which correfponds 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 remankable, that his error is greatef at the commencement of the coaft, and diminihes in its progrefs to the fouth: At Gardcfan it is near fix degrees; at Cape Paxas it is little more than 'two, and at Brava it may, by proportion, be reduced to one.
\(\therefore\) But there is another method of reducing lour conjectures to certainty; which is, by taking a proportion of fix to feven; in which cafe, if we dix the termination of the fix days' fail at Brava, the conclufion of the remaining feven coincides precifely with Mombaça, the:
the correfpondence of which will be eftablifhed by a. variety of deductions, fo as hardly to leave a doubt upon the arrangement."

Within the fpace whicli is allotted to this Little and Great Coalt, amounting nearly to five degrees of latitude, we find only one place noticed on our modern charts, which is Magadafho \({ }^{205}\). I dare not. fay that this has any relation to the Megas \({ }^{200}\) of the Greeks, but I tecommend it to the enquiries of the Orientalits; for Ma and Maha fignify great in the Shanfrreet and Malay, and in this fenfe mofe probably enter into the compofition of Madagafcar in the neigbourhood. Of Magadafho \({ }^{287}\) farther mention will be made hereafter ; but except in the exiftence of this place, our modern charts are as barren as the Periplûs; even in the ablence of information there is a refemblance and correfpondence; and as the following divifion is characterized by feven rivers, which are actually found upon the coalt at' prefent, there cannot be an error of any great confequence. on affuming Effina or Brava \({ }^{\text {zus }}\), and terminating the Great Coaft of the Periplus at the fame place.

SERAPION, NKON, the SEYEN ANCHORAGES at SEVEN RIVERS
XVII. The divifion we are now to enter upon requires mote confideration, as we are approaching to the limits of the journal;

\footnotetext{
\({ }^{205}\) This name is written Macdorcho and Mocadeffiou by, the Arabick authors, Magadoxo and Mogadoxo in the charts.

208 'Anyiciàs miniax. I do not fuppole that the Grecks tranflated, but that they caught at a refemblance of found; but it is very pomble that Magadatho is of a much later date.
\({ }_{207}\) The river at Magadation is fylcd Nil-deMocadeffon by the Arabs. Lobo. Second Differtation, ed. Le Grande.
\({ }^{205}\). Stuckius mentions Eflina as the place
}
where Aritou built a temple to Neptume, as the boundary of his difcovery, when he was Sent down this coaft by Ptolemy, but I find no authority for this affertion. According to Diodorus, (vol. i. p. 209. ed..Wef.) Arilton does not 'feem to have' gone beyond the Bay of Zeyla or Gardefan, and even that is con-• jecture. If he had reached Eflina, Strabai would have proceeded as far, but he thops at the Sonthern Horn S See lib. xyi. p. 774. Salmas, Plin. ex. p. 1183 . Stuckius, p. 30.
and more efpecially as I am obliged to difent from d'Anville, which I always do with diffidence, and which I never do withour compulion; or from the imperious neceffity of the circuminances defcribed. Thefe 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 coalt; and they are the more remarkable, becaufe from. Cape Gardefan to Brava, a fpace of more than feven hundred and: fixty miles, water is found at only three places \({ }^{210}\); as far as I can difoover. Among the number of thefe freams muft be comprehended the mouths of the Quilimancè, or Grand River of d'Anville; it falls into the fea not far from Melinda by three mouths, or perhaps more, and in the iflands formed by the divifion of the Atream, or in their neighbourhood, we find \(\mathrm{Patè}^{2}, \mathrm{Sio}_{i}\) Ampaça, and Lamo, obfcure places, where there was fome trade when the Portuguefe firf difcovered this coaft \({ }^{2 x}\). Here d'Anville places the the Rhapta of Ptolemy and the Periplûs, neglecting altogether the Pyralan iflands and the Menuthias of his author \({ }^{218}\), and not obferving that Rhapta mut be two days' fail to the fouth of the latter. My own defire is, to affume thefe foots furrounded by the divided freams of the river for the Pyrafan illands \({ }^{233}\), and to make up.

\footnotetext{
=09 Sue hect:26. MS, of. Refende, Brit. Muf. It is not pretended that the leven anchorages cin be ditributed to the feven rivers, but there are feven mixers or probably more, and the genemal picture of the tract is at that is contended for as true.',
2so At Bandel d'Agoa, noth of Capc Buras; at Doura an oblcure ftream where we find Bandel yeijo, and at Magadatho.
wi Geog. Ancieme, vol. ini. p. 64.
}
\({ }^{212}\) I fometinges think that \(d^{3}\) Anville in this has followed Marmol, who places Rhapia at a river near Mclinda; that is, the Obic or Quilimancè, Jib. x. p. \({ }^{1} 46\), 8.c. and p. 308:
\({ }^{213}\) I am enabled, from Reffenders MS. to give fome particulars of. thefe ifiands, which have efcaped the refearch of the atithors of the M. Univerad Hifory: Lano, Ampaça, Patè, and Cio, lie at the different iffues of the Obis or Quilmancè, in latiquide \(2^{\circ} 1^{\prime} 0^{\prime \prime}\). The govern-
the ntionber of the feyen riverswith thofe feparate firean's. whichoccur: previoufly on the coalt. The great river which forms thefe iflateds Stalled the Obii \({ }^{2 / 4}\) by the Portuguefe : they failed up it for feverral days, and defribe it as a magnificent fream: it poffibly deriwes its brigin from the fouth of the Abyfinian mountains, as the Nife flows from the northern fide, and perhaps gives rife to a getgraphical fable of Ptoleniy and the early writers, who derive the foutce of the Nile from a lake in the latitude of fisteen degrees fouth \({ }^{215}\).
The two firt anchorages of the feven are called Serapion \({ }^{116}\) and Nlcồ \({ }^{\text {12 }}\), bothio Ptolemy and the Periplû̀; and it does not appear clearly from the text of the latter, whether they are to be reckoned includive or exclufive. I have taken them feparate in the pres ceding table of the coaft; but if they are to be included in the number, two days' fail, or an hundred miles; muft be deduted
ment of all was in the liands of the Mohamedand, but fherc was a Purtugucte cuftom koufe at Patè. Valco de Gama filt made the coalt wf Africa at Pate on his return from India. Whips were not fuffered to wuch hete, unlefs the monfom prevented them from getting to Mombaca. The gevernment mantained three thotifand Moors as foldiers. . Cio had. ix hiundred, and was a piratical fate. Ampaça Tad fifteen hundred, was tributary to the Portuguefe, and much attached to the nation. Thefe were divided by different branches of the river, bue lume was more fplendid than the others, had'a king of its own, and fifteen hundred Moorifh troops. \(r_{i}\) was tributary to Portugat, but no Portuguefe refided in the city. The trade of all thefe places confited in dates, Indian corn, and provitions.

314 See Manmol, lith. x. p. 20t, and p. 144. Barbola, \&c.
\(\therefore 2 \times 5\) Pedemy in \(32^{\circ} 30^{\circ} 0^{\prime \prime}\), or \(33^{\circ} \mathrm{c}^{\prime \prime} p^{\prime \prime}\).
21. Whatewer doubt may arile about Nicon, from the fluctuation of orthegraphy, therecan be no hefitation in allowing that Serapion muf be the name of an Egyptian, or an Egyptax Greek. Voyage of this fort fyequently \(\xi^{\text {ave }}\) their names to ports fint wifted by them; or had this honour conferred upen them by mhers; thus we have, in Strabo, the altars or parts of Pitholaus, Lichac, Pyttangehis, Leon, and Charinotans, on tide coall betweein Monet Elephant and tue Southern Horn. Strabo,
 Cicero mentions a Serapion as a geographer who contradicted Eratofthenes. May be not nave bech enarigator'on'this cump or might sot a plave havé been fo named in inworn of him by a navigator? Sce Epift. ad Atticum, lib. ii. ep. 6.
2.17 Prolemy writes Niki and To-Nikè : it is only a variation of orthography.
from
from the total, a diference far more excafable in an ancient journal that a modern one:
Thefe names, exidendy derived from the Greeks, afford na means of finding an equivalent for either, but in tegard to the feven rivers and anchorages, our evidence is complete; this istimation the reader is requefted to accept for the prefent, till we can prefent him with particulars from the difcovery of the moderns. The general chatacter of the coat is clearly marled by the actual exiftence of the rivers, and the termination of the feven courfes at the Pytaláan iffands, points to Mombaça alniof to a certainty.
\[
\mathrm{MOO} \mathrm{M} \mathrm{~B} \boldsymbol{A} \mathrm{~A}
\]
XVIII. Tire preference due to Mombaça is founded upon a variety of combinations. It has been noticed already, that by the two divifions of this tract fron Apokopa [Cape Baxas] to the Pyralan iflands the proportion of fix days fail to feven would direct us to Monibaca, and it inult be obferved now, that two hundred milea fenthward would carry us to one of the three Zanguebar Mands, and another hundred miles added to this would conduct us to the neighbourhood of Quiloa; thefe are the diftances of the Periplus to Rhapta, and at Quiloa or Cape Delgado mart be fised the limit of diffovery in the age of the author. In treating of this limit, Quiloa will be generally aflumed as more confpictious, as it is a place of importance, and as it is the feat of an Arab government, certainly more ancient than the Periplus itfelf.

Let us now confider the peculiar characteriftcks attributed by our author to khapta. The place he chys, has obtained this name
among the navigntors who were Greeks, from the tword jxtw, whith fignifies to 涺, and was applied to this place becaufe they Found heremeffels not buit like their own; but fmall, and raifed from Bottom of a frgle piece with planks which where fewed together. [with the fibres of the cocoa,] and had their bottoms paid with fome of the odonferons refns of the country is it not one of the mof extraordinary fact in the hiftory of navigation, that this peculiarity flould be: ofie of the firf objects which attracted the admiration of the Portuguefe upon their reaching the fame coatt, at the diftance of almon fifteen centuries? They faw them firft at Mofambinue, where they were called Almidas, but the principal notice of them in mof of their writers is generally Atated at Quiloa, the very foot which we have fuppofed to receive its name from veffels of the fame conftruction.
\[
\therefore R H A B P A
\]
XIX. "The mhabitants here are men of the talleft fature and "s' the greaten bulk \({ }^{\text {ans }}\), and the port is fubject to the fovereign of " Maphartis \({ }^{220}\), which is in Yemen, lying between Moofa and the: "ffraits;


Beaulien near Eipe Gardefan.


Gua M, Moqxgizm Tiganos.

 dixidiag proviņecs according to twir proximity
or date of congieft, as Arabia prima, Arahia Lecunda: and he oblerves juilly, that this ftyele belings to a later age than what I eflume, i. e. the reign of Cladius. - To this I anfors, that the Romans' never had any proviace at all in this part of Arabia. , They ravaged the coalt it is true, as they ra\%ed Adent, and they cols lected a tribute as carly as the reigra of Clapdiias, as appears by the account of Plocimus's frectman, and fo did the purngiefe upon
"A Araits 3 "; befides this power" of the king, the merchants of Moofa Whikewife exact either a tribute \({ }^{222}\), or demand cuftom; for they ", have many fips themfelves employed in the trade, on board of " which they lave Arabian commanders and factors \({ }^{223}\), employing "fuch only as have experience of the country, or have contrated " marriages with the natives, and who undertand the navigation "" and the language." This mixture of Arabs, Meftizes, and Negrocs prefents a picture perfeely fimilar to that feen by the Portipguefe upon their firt arrival ;and except that another race of Arabs, of another religion, had fucceeded in the place of their more bar-barous: anceftors, and had carried their commerce to a greater extent, , the refemblance is complete.

\section*{The Imports here are;}




Mayárosac
feveral coafts where they had not an inch of territory; but the Romans never had a province on this past of the coall of the lied Sea, or on the ocean, If they had an Arabia prima and fecunda, thefe mutt have been in Petrea, fouth of Jordan. It is for this realon, I think that ITPRTHí has no relation to a Latin term, but belongs to Yemen, the forg and principal? ' late of Arabia Fdix, the king of which was Charibact; with whom the Romians ahwas, treated and Maphar or Mopharcites appears
are actually the manufacture of Moofa.
Hatchets or Billso
Knives.
to be a territory under that divifion. Sce Periplasis p. 13 .
\({ }_{221}\) It is a turieq in Arabia mentioned next to Moofa, the capital of which is Saues, if we might be allowed to read. vinn for \(x^{3}\) un, it would be the modern Sana, capital of Yemen, for the Periplas fays, it hies three days inland; but this is highty dibious. .:


OTyTHo:


Avpla.
Crown glafs of various fotts:

And to thefe commodities we muft by no means omit. to add a fore "of corn" and wine carried out by the traders; not for fale, but for the purpofe of entertainment, and ingratiang themfelves with the natives. This is foturuly confonant with the modern fytiem of carrying out firits to Amexica, and the coalt of Africa, that the refemblance foould by no means be fupprefed.

\section*{The Exports are,}

 ferior quality to that obtained at Adooli from Abyfinia.

Puóxspossaт:


Rhinoceros, the horn.:
Tortoife-fhell of a good fort, but inferior to that of India.

Naveraios onínos.
is The articles of import here are nearly the fame as an African invoice at the prefent moment; and in the exports it is fone degree of difappontment hot to find gold. For as the heets of Solomon are faid to have obtaned gold on this coaft, as well as the Arabs of a later age, and the Portuguele, we naturally look for it in a commerce which is intermediate; and the nearer we approach to Sofala the more reafon there is to expect it. Our prefent obbject, howevery is not the trade best the grography.

It has been already flated ? \({ }^{2 \times 4}\) that the meafures of the perintus. sccord with the degrees of latitide betweers Gardefar and Quiloa within five miles \({ }^{-2 z 5}\); a difagreement upon twenty degrees wholly ingignificant:. But if it fhould be thought that the meafure by a day's courfe is too vague to fuppont the affumption of Quiloa for Rhapta, \(\because\) it may be anfwered, that in a foyage performed both ways, with the different monfoons; and repeated yearly, this eltimate may be reduced almoft to a certainty; fait; more fo at leaft tham any courfes the Greeks could eftimate ia the Mediterranean. Ptolemy's objection to this will be confidered in its proper place : for the prefent it is fufficient to fay, that the agreenent of the meafures is the firf principle for the aflumption of Quiloa; the fecond is, that the peculiarities of the coaft coinciding with the dotail of the journat all point to the fame foot; the foven days courfes reminating each at a river, cannot be rpplibable to any tract but the coalt of Melinda, comprehending the mouthe of the Obii, and the termination: of thefe at Mombaç, which is aflumed either as one of the Pyonlan Inands, or as a, place Arangely marked by the title of the New Canal. One reafon for placing this at Mombacit is, that a canal implies fomething on the continent rather than an ifland in the fea, and the Pyralan inands preceding this feem, therefore, naturally to be the frots enclosed and divided by the mouth of de obit, on whichi Ampacn' Sio, Pate, and Lamo are placed, all marts of later date, comefonding with fome of the feven couries of the feriplas. Angther reafon for afuming Mombaca is, the it is on an inand id

\footnotetext{
2es See Table p, 135
: \(2 \times 5\) It is not. memt to buik on this approximation: the chats deffer confedcabio,
}

\footnotetext{
but if it can be reconcind"winta a degree", or
 nary.
}
155. PERIPLUS OT THE ERYTHREAN SEA.
a bay feparned, from the land by fo narow a channe that it is jonequ to the main by a caufey atow-water 2 a , there is a frong fimilarity: in this to a canal cut, or fuypofed to be cut ; but a third point we may infif upon, "is fill more convincing, which is that neither the: Fyxatan flands, or the Néw Canal (xflaterer it may be) are ment: tioned as ilyipg at a ditane from the ebaft, whereas the next ftation is experfly notied as an the thees, hunded fadia, or thity: miles off hore.

\section*{MENOUTHESAAS}

IXX. Triss ife is the Eitenediommenthefos of the Periptus a, term egregiouly ftange and corrupted, but oution which the commentators ananimoufly colleo Mentuithas , whatever may be the fate of the remaning fyllaber. That this Menthias mun be orie of the Zanguebar lilands is indubitable \({ }^{=8}\); for all three, Pemba, Zanguebar, and Mow hie nearly at thirty miles from the conf, and this character is indelible. \(\therefore\) Which of tie three it may be; floula not hantily be determined, but if can hardyrine Pemba, which is the frat, or mont northerly, becture if the fan twere touched at the others muit be paficd, and ought to have been moticed's neithon: would the diftaces atrec, either from the new canal to Pemba, or from Perriba to Rhapta, : Zanguebar as the centre and mof con-

\footnotetext{
 rol. i, p. 50. Caftanceda, p. 22 .
. 727 Sec Appendix. No. iii.
. 23 Stuckius fuppoies the Pyrataian iffes. to anfwer to the Zangruebar illando, or Zanguckar itfelf; but it is evident the Pyralanas are near the main, and the at thirty miles dif-
}

\footnotetext{
tance. If it niould ever be foud that Pembin, in its waxious orthography, Penẹ, Rendea, Pendrea, \&ce bears any refemblance in a native fomd or form, to Ryrallam, this queftion might require farther confoderation; but at prefent I dan Aifcover no fuch relation. See Stuckiss, p. 3 3:
}
fatcuous naturally attrabs our attention, and zangucbat is afimed
 omonents \({ }^{22 g}\). Not that we mufl fappofe Voflus prejadiced in favore of one of thefe iflands more than another, bue that it mut be che of the three, and ought to be that with which the ditances of tive journal are mor confiftent. The journal is very precife on this head, it gives two \({ }^{330}\) hundred miles from the New Cand io Monuthias, and one hundred from Menuthas to Rhapta; makivg. at the fame time the dilance of the illand from the main, and the return of the courfe from the ifland to the contant. A reference to the map will now ficw that thefe mealues agree with the courfe from Mombaç to Monfa, rather than Zanguebir, "and from Monfa to Quiloa. It will be thought fanciful to faggeit. a refemblance between Monfia \({ }^{232}\), and Menthia; bat I cantiot whain myfelf from the foppoftion, though I fhould not venture' to fix a poftion on fuch grounds. However this may be, ithat sow gipe the defription of the illand from the Feriphes, and leave it " for futufe navigators to determine which of the tryo lifands correfonds beft with the characters that are noticed; thefe are, that it is low and woody, that it has rivers, and abounds with a variecy of bichs: and with the mountair or land tortoife. It has no nowious mitnals, for though it prodeces crocodiles, they are liarmels. The natives;

\footnotetext{
\({ }^{2 \prime 9}\) Sec Salmaf. Thitan. Exere. p. 124.

\% 29 Sec Table, p. 135.
23! Greater corvupters of foreiga names than the Grecks there canuot be, and the firle fond that fugrefted an idea to a Greck, generally led him to find a Gark name and
often to and a Cfeek tale of my helogy to the name. There can be litite dub) that Zunotora is a bative term of the earlet dape, bue. the Greeks turnct is into Diviourides at the firll lep, Pordy morina was made Menthia


}
whe the phapta or fewen veflele sin both for haing and catching turte, and they have likewife another method pecullaz to them Telves for obtaing the later, by fixing bafets intead of nets at the interitices of the "beakers"s, through which the fea retires, when the tide is gong out- Thete efremitances, it is probable, wrill enable tome future wifitor to determe which of the two ifles We are to call Menthias that it is one of then is demonftrable. There is fome reafon for thinking Zangebar hat lowo \({ }^{23}\); whether Monfa is fo, no mens of informaton have yet occutred and as to the croédiles which do mo harm, I fould have fuppofed them to be the very large fzards not unfrequent in thefe latitudes, if had not obferved that the jounat, whea reating of Zocotora; mentions both crocodiles and yety large lizard which the natives eat \({ }^{236}\). Crocodiles will hardly be found in inands whicl cannot have avers of any great extent ordepth.

After the de deduatons, there is every refon to conclude, that the Menâthias of the Periplûs is fixed indubitably at one of the fe two

> 23i Batbof notices this circuimfance at the Zaiguebai iflands:?
"Zt4 When Duarte de Lemós invaded Zan-
griebar inir 5 to, the natives fog to the miom-

> if low on the coat, the ifland may tail be calkat Iowil
> 1 , inss: By referting to the maps for the form of Vhoinfa, it appears both in Reffende and the 'modetin charts like a femicicelc' or' harfe. fhoe, taclofing a bay or the wetters fide, refembling thefe inands in the South Seas ulutich Cooke deferibes as a rect reariag its fummit abovè dic fan- Froyt thit formi I concluce it to be

Bow, which is one of the hiaracters of Menuchian in the Pemphts. But \(X\) have no politive authority to depernd on Keftende fays it is the larger inand of the three, and twenty five leaguesin length: MS. tre the Brit. Mufem', p. 103: et req.
 But Hewdotns fays the Touians called [oćvocr] Iizards by the yamo of crocodiles, \(\mathrm{Hb}_{\text {, it. }}\), Sal. mal p. 873. Secalio Lavall Voyage zuar ris, vol. i. p. 703 . At St. Auguftin's bay in Madagafcar, he fays, the place was covered with an infury of lage licards zobica burt no ome.
iflandss the ditance from the main is fuck as to fuit no other tupon the coat; for all the modern accouthe concur in givirig it at eight leagues, which are geographical, and which, compaxed with thirty Rointan mides \({ }^{237}\), approach too nearly to admit of a difpute. This is a point which has employed fo much pains to fettle, becaufe the conctufion of the journal, whe the limit of difcovery, depend upon it: 'for ine wé are right in Mentuthas we cannot be mitaken in Rhapta. The difance fron Monfa to Cuifo is as nealy an hundred miles as can be mexfured, and two days courfe of the journal is" an hundred miles Wkewife; but twe are no otherwife determined to Quiloa than as a known place, and from the fuppoftion that the convenicnce of the fyot might have attacted the natives or the Arabs; to fix a ciry here in the early ages as well as the later, The joural calls it the lat harbour of Azana, and the termination of difoyery. The modern Ajan is bounded at Cape Baxos, or as otiers fate, at the Obii, and the coaf from thence to Cape Conrientes, comprehonding the nodetn, Quiloz, is fyled Zanguebarl: it is this ceaft which Mareo Yolo calls the iffand of Zanguebarg th which he gives an extent of twe thoufnd miles, and in which he is not morc miftaken than Ptotemy in his Menethias, or in the inclination he gives flis continent towards the eaft. The Petiphis fixes its own limit without monftes, prodigies or anthopophagi ; a circumnfance this, above all others," which gives reafon to fuppofe that the author vifted it himfelf \({ }^{233}\); for the marvellous ufually commences. where knowledge ends, and this author indulges

\footnotetext{
\({ }^{237}\) Sinty geographical miles are equal to \({ }^{238}\) Ubi defilit cognitio, ibi fingendín incipit fexenty-ive Roman., Cuftaneda fays, ten licentiav Vof, ad Riclam, p. 3054 leagues, p. 67.
}
the fame paffion as other writers; when he advances beyond the boundary of his own knowledge in the eaft; bat of this more in its proper place. It is our prefent bufinefs to confider the fite aflumed for Rhapta at Quiloa, with the Ceveral circumftances that attend it.

The Periplus always employs the title of Rhapta in the plural, and notices it only as it is a maxt or harbour ; but Ptolemy has a river Rhaptum on which Rhapta ftands, and a promontory Rhaprum more than a degree and a half farther to the fouth: It mult be obferved, that this is very much in harmony with the actual fite of Quiloa, which is on an illand in a bay at the mouth of the river Goavo \({ }^{1239}\), with Cape Delgado at the cliftance of fomewhat more than a degree to the fouth. D'Anville has affumed Delgado for the Prafum of Ptolemy, in. which I fhould not fo confidently fay that he is miftaken, if I had not proved that he has totaliy neglected the Menuthias of the Periplûs \({ }^{240}\), the very point upon which all our pofitions in the neighbourhood depend. But if the Rhapta of Ptolemy and the Periplus are the fame, of which there is, no doubt, then the circumftances of Ptolemy apply to Quiloa, and to no other place upon the coaft. In this opinion I am not fingular; for Voifus \({ }^{244}\), as he agrees with me in mak-
\({ }^{239}\) See the Voyage of Thomas Lopez, in Ramugo, vol. i. p. 134 . Fra. Quilioa nuova e la vecchia e uno fuumo. A prooí of more eflablifhments than one in this weighbourhood.
\({ }^{240}\) D'Anrille fuppofes the Menuthias of Ptolemy to be Zanguebar. But he does not take into his calculation the fite of that ifliand, or the neeffity there is for Rhapta being to the fouth of it.
\({ }^{44}\) Menâthias illa eft infula qua nunc Zangrebar appellatur, huic enim omnia conveniunt qua veteres de Menûthiade fcribint, non infulx S. Laurentii, quæ plane ignota fuit Grecis ac Romanis, ut plenius alias oflendamus, Rapum vero promontorium ef illud quod Quilina vocatur, Voffius ap. Ccllarinm. It will be fhewn hareafier in what fenfe Madagafar was unknown to the Greeks and Romans. See Cellarius, lib, iv, c. 8, p. 163.
ing Menûthias Zanguebar, unites allo in alloting Rhapta to Quiloa.
\[
P: R A S U M
\]
XXI. Ir is now to be obleryed, that Ptolemy \({ }^{2 i 2}\) in going down the coaft of Africa, as he has the fame names with the Periplus \({ }^{36}\) " io has he the fame termination at Rhaptum; for his Prafum and bis Meru thias are thrown to the conclufion 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 Pcriplûs and that of his own publication." But if it follows from this that the Periplus is prior to Ptolemy; io is there great reafon to believe, that if he did not follow this journal as low as it went, it was one nearly of the fame age. The hefitaw tion 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, \({ }^{\text {if }}\) adhered to, would hate compelled hin to carry Prafum to latitude thirty-four degrees fouth \({ }^{24}\), he himfelf has a method by no means more eificacious. Marinus, it feems, was upon his guard, and had reduced this excels to. \(23^{\circ} 30^{\prime} 0^{\prime \prime}\) fouth, or the tropick of Capticom; but Proleny objects to this, as fill too diftant, and reduces Prafum to latitude \(15^{\circ}\). fouth, becaufe, fays he, the people there are black, and tha
\({ }^{2 ; 2}\) Africa, cap. vii. table iv.
2:3 See Table, p. 3 35.
z.t. It is a romarkable circumfance that this fhould be nearly the latitude of the Cape of Good Hope, latitude \(35^{\circ} 30^{\circ} 0^{\prime \prime}\). Sce Ptol.
lib.i.c. g. The whole of Marigus's error is imputed to caiculating diftances by the day's courfe of a flip; and the chapter that contains this charge is highly curious, and worth confulting.
country produces the elephant and the rhinoceros, circumflances which occur in latitude \(15^{\circ}\) north in Ethiopia, and confequent'y ought to occur again as many degrees fouth of the equator. This method of fixing a latitude is by no means fatisfactory to Ramulio; for he tells us he was acquainted with a Portuguefe pilot who was well read in Ptolemy \({ }^{245}\), and who objected very acutely, that if this ground were admitted, the inhabitants of Spain ought to be of the fame colour with the Hottentots; for the hraits of Gibraltar are nearly in the fame latitude north as the Cape of Good Hope fouth. Without infifing upon this, it is evident that Ptolemy had no data from the journals to proceed on. But when he places Rhaptum in latitude \(8^{\circ} 25^{\prime} 0^{\prime \prime}\) fouth \({ }^{346}\), and Prafum in \(15^{\circ} 30^{\prime} 0^{\prime \prime}\) fouth \({ }^{247}\), he makes but one flep of feven degrees, without a feature of the coaft, or a circumftarce intervening, which might enable us to judge whether the voyage bad ever been performed or not; but here we find a nation of Ethiopians or Negro Anthropophagi directly.

\section*{MENOUTHIAS, of Ptolemy.}
XXII. IT is oppofite to this Prafum, but towards the north eaft \({ }^{348}\), that Ptolemy has placed \(\dot{b} i s\) Monuthias, and at the difance of five degrees from the continent; for his Prafum is in longitude \(80^{\circ}\), and his Mem nuthias in longitude \(85^{\circ}\). His latitude of Prafunn is \(15^{\circ} 30^{\prime} 0^{\prime \prime}\) fouth \({ }^{249}\),

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\({ }^{245}\) As probably ail the Portuguefe pilots were in that age.
\(2^{2}+5\) Latin text \(8^{\circ} 35^{\circ} 0^{\prime \prime}\).
74 Latim text \(15^{\circ} 0^{\prime} 0^{\prime \prime}\).

\({ }^{3 n 0} 0\) Latin text \(12^{\circ}\). In the Voyage of Nearchus 1 had triben the longetrides and lati \({ }_{7}\)
}
tudes from the Latin texi, from a fuppofition that it was more correct than the Greek, and of equal authority ; for it is not a tranfation, but fuppofed to be taken from ap older and better Greek copy. A learned friend corrected fome of my errors by referring to the Gre:k, and adviled tar to condult is more.
his latitude of Menththias is \(12^{\circ} 30^{\circ} 0^{\prime \prime}\). It is from this latitiode of \(15^{\circ}\) fouth, that the early Portuguefe univerfally affume Mofambique for Prafum; and. if it were fo, the Ment̂thias, five degrees to the eait, can be nothing but Madagafcar. Now it is not neceffary to affert that either of thefe affamptions is true; bur, true or falfe, it is evident that the Menuthias of Ptolemy is different from that of the Periplus. The one is oppofite to Prafum, between \(12^{\circ}\) and \(15^{\circ}\). fouth; the other is notth of Rhaptum, and is in \(9^{\circ}\) fouth. The ene is five degrees, the other is only thirty miles from the continert. Where Prafun is, to be placed is an object woithy of inquiry, it there were data fufficient to determine it, as it is the fual limir of ancient difcovery to the fouth. I can point out no fitter pofition for it than Mofambique'; and if the Greeks did reach that port, they muft probably have heard of the great ifland. The name of Menutinias was poffibly affigned to it, as the name of the fafe illand known, like Thuie in the north, or Cerne on the fouth," for a Ceernè is found as the limit of African knowledge both on the weffern and eaftern fide of the continentio. Hanno, or at lealt thefe who followed him, finithed their voyage at a Cernè \({ }^{250}\); and Pliny, as well as Dionyfu's, finds another in the Indian Ocean. One of the firt "names by which Madagafcar was known in Europe wast the Inand of the Moon, poffibly an Arabian interpretation of Minn-ûthias \({ }^{3 s s^{\prime}}\); but Marco Polo calls. it 'Madaiter,' an appellation

\footnotetext{
mos hanna werit farther; but in the time of Scylax Cernè, wat the limit. See Mr. Goffelin's Recherches, tom. i. on this fubjeet, to whofe ofinion \(I\) do not fubleribe.
\({ }^{2} \xi^{2}\) It is Me nòt Mm, or elfe I flould conGuder this as certain. The Thand of the INoon is a term fent to Europe by Covilhan, in his hiter to John II. king of Portugal. He fays
}
this was the pame by which the natives called it, This, as attributed to the natives, may be doubted; but itis certainly the term ufd by the Arabs, as appears from Al Edrifli. Madater, the name giver by M. Folo; is more likuly to be the sative appellation. He is the frit author who convejed this name to Europe.
whick
which it received from the navigators of nis age, who where ap. parently Malays rather than Chincife ; and to that language we Thould look for the etymology of the term.

XXIIN. Let us paufe at this boundary of ancient difcovery, and examine briefly the opinions of mankind upon the fubject. To commence with our author, nothing can be more garded or unaffuming than his language. The ocen, he fays, beyond Rhapta, as yet undifcovered, fweeps round with a turn to the weft; for as it walhes the fhores of Ethiopia, Libya, and Africa in their inclination to the fouth welt, it joins at lal with the Hefperian or Atlantic Oceat. This notion is confiftent with the general fentiments of the ancients on this fubject; 'and a variety' of author's, from Herodotus to Pliny, not only fuppofe the communication of the two oceans, but the actual performance of the voyage. If credit weredule to any, Herodotus has the fairef pretenfons \({ }^{\text {sis? }}\); he has certainly no intention to deceive, but was"deceived, himfelf by the vanity of a nation who fet no narrower bounds to ther geography than their chronology ; whore kings were gods, and whofe gods were" moniters. The natural propenfity of mankind to affert the actial" performance of all that is deemed poffible to be performed, is nor' confined to Egyptians, Grecks, or Romans. The problem of a north eaft or north weft paffage to the Southern Ocean bas been exploded only within thefe ten years; but while it was thought practicable, the pretenders to the performance of itwore as bold in their affertions as the Egyptians of Herodotus:

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* As the Aragonauts failed from the Mediterranean by the Palua Meotis \({ }^{253}\), and the Tanais \({ }^{354}\) into the Hyperborean Ocean; or as others are faid to have come from India north about by Tchutkoi \({ }^{2 s 5}\), and through the Wolga into the Cafpian Sea and Hyrcania. So in a more recent age have we an hiftory of a fhip called tie Etcroal Father \({ }^{255}\), commanded by Captain David Melguer, a Portugues, who in the year 1660 ran north from Japan to latitude \(84^{\circ}\), and then thaped his courfe between Spitfbergen and Greenland, by the welt of Scotland and Ireland, till he reached Oporto. We have a Captain Vannout, a Dutchman, who affirms that he paffed through Hudfon's fraits into the South Sea. Another Dutchman who failed in an open fea under the North Pole, and a John de Fuca who failed from the South Sea into Hudfon's Bay. All thefe accounts have been reported and believed in their feveral ages, convicted as they now are of falfehood or impoffibility, and traced, as they may be, to error and amplification. To this fpirit of vanity it is doubt. lefs that we may refer the Perfian Fable of the voyage of Scylax; the Egyptian boaft of the circumnavigation of Africa; the Grecian vanity concerning the fame achievement by \({ }^{\text {as }}\) Eudoxus. and Magus \({ }^{258}\); and the ignorance of Pliny in carrying Fianoo from

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25*. Pliny did twe quite think this impoffible, lile ii.,c. 67.
254 The Sea of Afophand the Don.
xis Strabo, xi. P. 5i8. "OTv de duyarà,

\({ }^{256}\) Proulc's Voyage, vol. ii. p. 193. Eng. ed. cetayo.
\({ }^{237}\) Thofe who winh to lee the mendacity of Eudoxis, and the credulity of Pofidonius
fet in their tride light, may confult Strabo, Pa 101. .
\({ }^{258}\) I am not certain whether Magus be a proper mame or not, but he is one of the pretenders to this circumnarigation, mentioned by Strabo from Pofidonius, lib. i. p. 32, fent by Gelo of Syracufe; and confudered as an impottor by both.
}

Carthage to the Red Sea, notwithfanding his own journal was \({ }^{\text {w }}\) extant, which flews that he never paffed the equator \({ }^{299}\).
- Nothing is more eafy than to affirm the accomplifinent of thefe great attempts, where an author clogs himfelf with neither circumftances or particulars ; but whenever we obtain thefe, as woe do in the journal of Nearchus or the Periplut, we find indeed that the ancients performed great things with flender means; but we fee plainiy afo what they could not do. We fee, with fuch veffels as they had, they could neither have got round che Cape of Good Hope, by. adhering to the coaft, where the fea and the currents muf have been infupportable, nor could they have avoided thefe by fanding. out to fea, as they had meither the means nor the knowledge to regain the fhore if they had lot fight of for a fingle week. It does not appear in the whole hifory of ancient navigation, that any voyage was performed either in the Medterranean or on the ocean by any other meatis than coafling, 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 wotld which was fit to encounter the mountainous billows of the ftormy Cape \({ }^{2 e 9}\). Hiftory fpeaks of no veffels fit for the ocean but thofe
which

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\({ }^{259}\) Campomanes places the Gorillas at St. Thomas under the equator, but probably with'out fiuficient authority:

260 The fame report which was made to M. Polos concerning the violence of the fea beyond Cape Corricnteg, is to be Found in almoit all the Oriental writers, In the following quiotation we have the evidence of twor De fluetibué hajus maris res prorfus ftupenda narrantur. 'Inquir Al Sherif Al Edrifi ibi fluctus
}
multiplex affurgit initar totidem montium recipracatorum, quifluctus nequaquam frangitur; coquie naves deferuntur ad infulam Kambalah; qua in predicto mari fita ad AlZang [Zangue't bai] pertinct, incolex funt Mollemi. Abul feda, in verfione Gagnieri. MS. in Bodicianâ Bibl. We.here learn that there were Arabs, Mahomedans on the coaff of Zanguebar, that there was a trade thither from Arabia or the Red Sea, and that the navigation beyond was unattempted
which Cexar defcribes on the coaft of Eretagno ; and if the Phenicins eaine to our illand for thin, affuredly it was a fummer voyage: The weffels of the Medterranean twere unfit for this feryice, not fomuch from their fize as their built, and if it is obferved that Solomon and the Phenicians traded in the Red Sea, and down the coaf of Africa, perhaps as Tow as Sofala, it mutt be conceded, alfo, that veffeis tuilt at Eyion Geber could not be large, and that the danger of the voyage, is far as they proceeded, was attended with a terior, that perhaps nothing but the Pherician thinft of gain could have furmounted. sThis terror Bruce has noticed with much acutenefs. The prifon, the ftraits of burial, the port of death, and the gate of afliction, he remarks, are inames given to the mats in the coorfe of this navigation; and if fuch was the alanin upon the mind of the feameti, when they vified this tact the the favorable feafon of the monfoon, what muth it have been't they had attempted to pafs Cape Corrichtes \({ }^{56}\) and had fatincted at once into the ocean which farrounds due extremity of Africa: Cape Corrientes (fo called from the yiolent ciurents formed by the preffure of the waters through the narsow channel between Madagacar and the main \({ }^{268}\) ) was the bowndarg of Arabian mavigation when Gama fret came upon the
witempted on account of the mountainous tec. 'see Al' Edriff, p. 28, et Teq, who nenticus beyond Sofala, Tesna were there is a bollowemountain, whence the waters ruth witi a tremendious war, and a nagnetick rock which draws the malle put of fuips. Some: other places to the fouth are mentioned, but: with great obfouritys, as Saion's Daudena, ' Gaila, Daguta, and Ouac-Ouac, the termination of all knowledge on the coatt of fafica, and indecd of all the geographical knowledge

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of the Arahst pe 34 , Such is the account of Al Edrifi, who wrote ano 54 , Hegira, or x 153 , about a century before M. Poo, and apparently about 300 years after the dechine of the Greck and Roman commerce from Egypt.
25* Facile tomines abtinere folent ab ins locis unde vel pallus vel difficilis fit regrefuc. Voffius ad Mel. p. \(595^{\circ}\)
asz Marmol defcribes not only the currents, but iflands, hoils, and the mof vioicnt winds that are known. Vol. iii. p. ro6i.
}
coaft; whether the Phencians, Fgyptians, Greeks, or Romans ever reached fo far may well, be doubted, if they did, the Prafum of Marinus and Ptolemy maxy as properly be placed there as at Mofame bique, but that farther they did not go is certain \({ }^{263}\). The Arabs knew the coaft earlier; latert, and tonger than all of them united; they were" fettled" here while the others, were tranfient vifitors, and they: had the opportunity of obferviag the featons, winds, anid currents; and what they did now dare attempt, no nation, unlefs poffefed of fuperior fill, wower, or iefouces, cani be fuppofed to: have accomplifhed.

XXIV, But from argument let uis come to facts, and bold as the prefumption unay appear, it is not too bold to afiert, that there. is no evidence of a farther progrefs to the fouth, on the weftern coaft: of Africa, than that of Hamo, nor on the eaftern, than that of the Periplûs. In afferting this, if I detract from the authority: of Heródotús's. Diodorus' Ptolemy; Juba, and Pliny'; it is a detraction confifent with, the moft perfect veneration of thofe great and illittrious authors, for they have all followed the reports of others, while the authors of the Periplus and Haino fpeak from their own experience. - It is from reports of others that we hear of a Cernè, and a Southern Horn, on both fides of this valt continent. Thée names were, in the refpective ages, the ne plus ulera of knowledge. on both fides; and whoever failed, eitber from the Red Sea; or the Mediterranean, "arrived at thefe points; as Columbus arrived at the Fidies" by taking a courfe directly oppofite to Gamai The

\footnotetext{
 cicns', comme on en juge par Ptoleméc', que parle Midi. D'A Anville, Geog, anci. tom. iii. le récit qu' on fafoit de quelques navigations p. 68.
}

Sowthern

Southern Horn of Ptolemy; on the eafern coaf, is in latitude \(4^{\circ} 50^{\prime} 0^{\prime \prime}\) north, and the extreme point of Africa \({ }^{26_{4}}\), is neaily in \(35^{\circ}\) fouth, makiag more than thitry-nine degrees difference; the Southern Horn of Hanto, on the weftern coaft, is in latitude \(7^{\circ}\) north, making two and forty degrees from the fame extrenity; but if we take both together; reckoning, efgty-one degrees from one Southern Horn to the other, this is a fpace that Pliny reduces. as it were to a point, and confiders the junction of the Atlantick. Ocean, as taking place almof inftantly; Juba takes a much bolder \#ight, and reckons the commencement of the Atlantick Ocean from the Bay of Nofyllon, annhilating by this method, if it were poflible, the immenfe triangle of this vaft continent \({ }^{263}\), and bringing his own Mauritania almoft in contact with Arabia. The particular attention of all who are curious, on this fulject is requefted to this point, for it is upon conceptions equally erroncous as this, that too. many of the ancients fuppofed the circumnavigation of Africa as ponfible as the doubling of Málea or Lilybêum. And this fuppoftion of the poffibility produced the belicf of the performance. "Pliny is felf-evidently chargeable with this mifconception, and Herodotus had probably no means of information by which he could form a judgment 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 Periplus yifited Rhapta in petfon; he had not heard of Prafum, a proof that the account of it is poterior to his age; the takes no notice of the circumnayigation exer having been accomplifhed, a proof that he knew nothing of Herodotus, or did not

\footnotetext{
\({ }^{2}{ }^{2} 4\) Cape Agulhas. . Viriorum edition of Foinp. Mela, by fs. Gro-
2 By confuting the map juferted in the norius, it will be feen that this is a fact.
}
believe
believe his report; and be fays nothisg of Cerney ghich is a proof that the miftake attending it, commenced from the Mediterranen: and not from the RedSea, That the general tendency of the coaft was fouth weft he faw as as he went, and that it continued fo he might collect from the matives or the Arabs, or he rhighteon clude the thion ot this fea with the Athatict, from copforing that converging litaes mult meet. 'Bur whatev fource of melligence he. had, that he moud mix nothing mazvellous or extravagant with the temination, is merit that few geographers in the ancient world caip boan;

The facility with which Hiny ne carnies his naxigators round the woild is rather magical than falfe; he mnilidates fpace, and finks: continents under the feac He fappores that the Macedonians in the time cr Seleacus and Antiochus, failed from Inda into the Cafian Sea, and that the whote Hyperborean Ocean was all but explored \({ }^{\text {an }}\) quiter round to the nordnof Gurops: The circumavigation of Africa is effected with equal celerity for this was accompliffed.
 Arabla to Gades But long berone Euroxa; Celius Antipater had feema merchant who failed from Gades to Ethopla. Nothing can be fo unfortinate as thete adextions; for we have fanno's \({ }^{269}\) orwo account to prove he never was whin forty degrees of the cape, and Strabo's puthority to prove, that Eudoxus never came fiom Egypt: to Gades by the ocean, but by the Mediterranean; and that fulp

\footnotetext{
Le Lu. ii. e. \(\bar{\sigma}\),
Bost Daryoquetrevias qum totis, winat ant illine feptentrio evemigatus, Ibid.

 feen them, and certainiy as if be did hot he?
lieve them.
ag: This lio fo ready autuitted by common inquirers, that Mickle in his tranflation of the Luliad fays: "Though it is, ceriain that Hanno. "doubled the Cape of Good Elope" p. 2 ,
}

48 his mind was of attempting the voyage, the attempe if made would have commenced from Gades, if he had found protecora to pacronize his undertaking \({ }^{270}\). Of Celius Antipater we can fay nothing; but if he did mect with m merchant who had falled from Gades to Ethopia, it was certamy not the Ethopia fouth ortsyen but that on the weftern coaft of Africa. No merchant or aechanthep could have performed a vogare which the greatelt pothtates munt have Attempted in vain, But the mof extraodinaty eitentifance till remains, which is, that there is in this place nomention of Herodotas? \({ }^{27}\); or the voyage he attributes to the Phencians: th the reigh of Necho. This is the more remarkable as the accont of Lerodotas has frengly the femblance of trath, whe Fano and Eadoxus never pretended to the honour of the acheventin thento felves, nor was it exep imputed to then by any one who was acquanted with then xeal hifory, their hation, obec, or detynem
 Werototus for it is mo light offence to queftion hinoricul facts upon evidence of mese feculation. It muft be confefed lisewife" that the foos he gives as of the toy age, though few are conillent. The thadow falling to the forth, the delay of Roping to fow grain. and teap han harve, "and the frace of thete"ears employed in the circumnavigation, joined with dies, fonptity of the adrnative, are all points fo frong and convincing, that if they are

\footnotetext{
" 27 Siral3,'p. ior, lo2, where he allows the royege to India, bus refues all crudit to Eatdoxus. Eurgetes, [ILd, \(]\) he fays, oould not: trant gaides to India, there were many bn Erypt; which is true, fo far as iangle perfons and hive thips had reacherl ladia. That ques. tion will be examinéd in Book IV.
aze Brace is fo full of an Eaft Tidia trade
}
and fo fond of phomg it in an early age, that fie fees no dificultifs it hise way ; and he prow. seeded fo much upor mpothefis that he neglected hintory. Fle knows fo little of the myage of Nearcins; that he makes him fall. along the coate of a inata inteded of Murang. and come un the Gulyh of Alabia inflad of "Ierkan. Seerol. i. 1 - 456.and 470.
infifted unon by thofe who believe the poffility of effecting the: palage by the ancients, no arguments to the contrary, howerer founded upon, a different opinion, can leave the mind without a doubt upon the queftion. That different opinion \(f\) confefs is mine, but wifh to Rate it with all deference to the Father of Hifory, and with the profeffon that I am fill open to conviction, whenever the weight of eridence fall prevonderate againft the realons have to offer.

I allow with Montefquiev, that the attempt commenced from the ealtern fide of the continents prefents a much greater facility of porfonance than a fimilar atempt"from the weit; for we now know that both the winds and currents are favourable for keeping near the coalt from the Mofambique Chamel to the Cape; and that after paffing the Cape from the edt \({ }^{27 z}\), the curyent fill bolds to the northward up the weftern coaft of Africin. Dut the prodigious fea, raifed by the junction of the two oceans, almoft perpetually, and at every feafon of the year, is fuch, that few of the fleets of Portugal; in their early attempts, paffed without lofs ; and the danger is now avoided only by ftanding to the fouth \({ }^{273}\). The latter means of fafety could not have been alopted by the Phenicians, they could not fiand out to fea; and if they adhered to the ceaft, by all that we can now judge from the confruction of ancient veffels, fhipwreck muft have been inevitable.".

Gut to omit thefe conderations for the prefent, let us obferve, in the fint places that the actual performance of this'vogrge ftands upod a fingle teltimony, and of all the circumavigations affirmed,

\footnotetext{
\(3_{2}\) See Eorrelt on the monfong, p., io. 13 . 273 In attcmpting which, feveral Mrips have

Sallen in with the Ice-INande fo graphically deferibed by the illuftrions Copk.
}

\section*{AZANIA.}
this is the only one which will bear an argument. If it took place in the reign of Necho, Herodotus lived an hundred and fixty ycars after the fact \({ }^{2 i 4}\), and received the account from the Egyptians. That Heródotus did receive the account, muft be ndubitably ad nitted. His'general veracity is a fufficient voucher. But that the Egyptians deceived him is an imputation which he does not cruple to infance in fome other particulars, and of which we have the mof undoubted evidence at this day. If. wee tale the date of Necho's' reign in 604, A. C. \({ }^{2 / 5}\), 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, \({ }^{\text {St }}\) will be readily granted that he muft be acquainted with the navigation of that fea, and the commerce carried on there, and on the coaft of Africa beyond the feraits by his own fubjects, by the Arabians or the Tyrians. 'The Egyptians had probably the leaft fhare in this, but the trade itfelf is to all appearance: as old as Thebes, and the caufe of its fplendour and aggrandizement. That it was profecuted by Solonon \({ }^{276}\) Hiram, and Jelofaphat we know hiftorically; and that it was enjoyed in all ages by the Arabians in fome form or other, there is every reafon to believe from the commodities found in Egyps, Pateftine; and Europe: Thefe caufes, and the teftimony which Agatharchiles bears, that the gold mines on the coaft of the Red Sea were worked by the native kings of Egypt, prove that Necho might wrifh to extend his: knowledge down the coaft of Africa to its termination, and that he might confequently fend a Phenician flect to the fouthward for that:

\footnotetext{
274 The voyage ordered by Necho is placed \({ }^{275}\) 'His reign begipa in. 6r 6 , end encis in. oy Blair about ante Chif.

604 Herédotus' read his hitary. 445
159.

6ot: Blair.
\(7_{0}^{\circ}\) Soloman died in \(980, A\). C. Jhof phat in \(839^{\circ}\). Necho is near 300 years later.
purpole
}
purpofe. But that they executed their commiffion is not quite fo eafy to believe Had this flee no difficultes to encounter, becaufe we read of none but the want of provifions? Can we fuppofe the Phentiaus fo faperio to the Greeks, in the art of navigation; as to have no dread"of pafing the greatef promontory th the worth, when Nearchus and his offeers Ghuddered at Mufendon, and dare not attempt Raf-d bad? Can' wo believe that Phencians who had never croiled the fidian Ocean were bolder mariners than the Axabians, who trufted themfelves to the monfoons? and yet the Arabians never dared to try the Mofanbique current, during their neighbourbood to it for fourteen hundred years: while thefe Phenicians launched into it at find Gight? To them the terrors of the ftorny cape wexe no bartere and the promontories on the weftem. coaft of the vaf continent no obfacte. Were all the which the Roxtuguefe furmounted only by repeated attempts, and by a perfevering firit exerted for almon an hundred years, to be pafled by Phencians on their finftexpedition, and in the courfe of a few monthos. Raife them as we pleafe above Greels, Romans and Arabians in fcience, they were doubtelis inferior in courage to them all. And whatever fcicnee we allot them, the fmallefl bark could have been conducled by the knowledge of a Portuguefe pilot in greater fafty, than the largeft veflel ever fitted out of Egypt: Some adinters of the ancients, nor content: with fuppofing the execution fof tuch a veyage, are willing to give them the means, by furnithing then with the contiats, and other nautical inftrunsents; thefe, it is faid, were found in the poffefion of the Arabians, at the time the Hortughefe firf came into the Indian Ocean, and that they were nfierwards met with in findiand anina. The fate is true, but
this was in the latter end of the fifteenth century, and the compafs "is faid to have been known in Europe early in the thittenth \({ }^{277}\); it had therefore paffed from Italy into Egypt; and from Egypt to the Red Sea.: But this argument, if, it could be fupported, would effectually contradict the hypothefis it is brought to fupport; for it would prove, that the Arabians of Mofambique, who really poffofed thefe inftruments, had neyer been enabled by them, nor ever dared to pars fouthward of Corientes in their neighbourhood, while the Phenicians had actually circumnawigated the whole continent. Now; if the Phenicians had not the compafs; how could they perform what was with difficulty performed by it?, If they, liad it, how happened they to perform fo much more by it in an eanly age than the Arabians in a later? But this queftion has been fet at reft by Nicbuhr, Mickle, and fre William Jones, who fhew that the Arabian \({ }^{278}\), Indian; and Chinefe compals is formed from that of Earope.
"Buthe us now examine the text of Herodotus. The narrative of this voyage is introduced in a pafage where he is giving the limits and excent of the three continents, and here he fays, that Neco proved Affica to be furounded by the ocean from the completion of this voyage. One expects, however, to heat of the oflicer who commanded; it was at leaft as great an exploit as any which the fabulous navigators had achieved. "Sefonchohs, the Orientai Eac-

\footnotetext{
97? Arbuthnot, p. 2So: from Fauchet and the Malays had it from the Arabs, and the Guyot de Provence.

27: The Arabick name for the compars is Buffola, evidemly Italian. Concerning the Chinefe initrumat there is fome obfcanty; but it was fo mean a tool that it is bardy worth difcufing. . The probability is, that
}
chus, and Hercules, whatever might be the extent of their victories, peregrinations or voyages, fell far fhort of this, and they were immortalifed; ' while among the Greeks, Jafon, who faited little more: than feven hundred miles, was himfelf worhipped as a hero, and had his fhip tranflated to the fphere. How happened it then that the greateft difcovery which the world admits, fhould confer po honour. on the difcoverer ? The name of Satafpes fill lives in the tame page of Heródotus, whom Xerxes put to death becaufe he attempted the fame circumnavigation in vain, from the ftraits of Gades; and the following page celebrates Scylax of Caryanda who palfed from the Indus into the Gulph of Arabia, to the point from whence the Phenicians had commenced theis expedition.: I have as little faith in the voyage of Scylax as in that of the Phenicians; but it is unjuif that Darius thould fuffer the name of the inferior to furvive, while Neco fhould tetally fupprefs the fame of the fupetiof. The great argument againf both is the total failure of all confequences whatioever, the total want of all collateral evidence, and the total filence of all other hiforians but thofe who have copied from Herodotus. And in his account the narrative clofes with a fentence \({ }_{i}\) which if it were not otherwife interpreted by his mofi excellent and. learned editor, I hould confider as throwing a tian of fufpicion over the whole \({ }^{477}\).

The fentence in one view feems to intinate that the Carthaginians. had circumnavigated Africa as well as the Phenicians, \(\boldsymbol{i}\) and if that be its

\footnotetext{
279. The paffage is, Mrico dt Kas \(\chi\) robrot bars of
 reads is \(\pi\) toroves, and which Weffeling calls an hariolation, but adds, Carthaginienfes enim fimilibus defunctos navigationibus, teataffe oras
}

Africe Atlantico mari afperfas, de Satafpé nihil cos novifle. Tue doai wiri conjettura babst, quo fo conmendet, lib. iv. 298. "But he jeniders it otherwife himfelf, and very harfhly: Larcher Eollows Weffeling.
real import, it can only allude to the voyage of Hanno \({ }^{280}\), which might have been deemed a circumnavigation in the age of Herodotus as readily as in the age of Pliny; and if fo, it would inralidate the Phenician account as much as the Carthaginian; for if the Carthaginiad voyage were falfe, as we know it is, the Phenician could hardly be true.

This argument, indeed, is not to be infifed on, nor the oblivion to which the name of the commander is configned, but the diffculties of the voyage itfelf, the want of means to furmount them, the failure of confequences, and the filence of other hiftorians, are objections not to be fet afide without ftronger evidence on the other fide than has yet been produced.

Rut as it is not in our power to prove a negative; let us now examine the pofitive teftimony of other authors, in oppofition to that of Herodotus. The author of the Periplus fays directly, that the ocean never was explored on the eaftern fide to the point of Africa. Hanno dives no intimation of any one having failed farther than Wimfelf on the weftern fide, and Scylax \({ }^{288}\), who traces the Cartham ginian commerce to Cerne, maintains not only that the fea to the fouthward was unexplored, but that it was not paffable \({ }^{282}\). The laft author we ftall adduce is Ptolemy, who certainly muf have

\footnotetext{
zao Weffeling doubts very pully whether the voyage of Hanno is prier tg Aeródotus. z can affix no date to \(i t\), but kin not fatisficd with Campomanes's datc. Olym. 93. Voflus thinks it prior to Homer. Strabo, p. \(4^{8 \text {. Tpeak- }}\) ring of the African yoyages of the Carthagi-

\({ }^{2 x i}\) The work which bears his paime.
- asx Though this is not trae, yet his men-
}
tion of the weeds mivich ohtruct the paflage is a circumftance which d'Anvilic has tieized to prove the reality of thele Carthagmian voyages to the fouth. Suit weeds do occur, and do impede a fhip's way, if the las not rather a brik wind. If the latitude where thefo weeds commence qua, be determinded it may throw a new light on thefe vorages yf: the Carthaginiens.
been acquainted with Herodotus, however ignorant we may fuppofe Hanno, Scylax, or the merchant of the Periplus. And Ptolemy is fo far from believing the report of Neco or the Egyptians, that he not only fuppofes the voyage never performed, but declares it impoffible; that is, he brings round the continent of Africa unbroken with a froeep to the eaft, till he makes it join the continent of Afia. to the eaftward of the Golden Cherfonere.

False as this hypothefis may be, it is fill a contradiction direct to Heródotus; for though it proves that he was himfelf ignorant of cvery thing beyond Prafum, it proves likewife that he believed all pretenfions to a progrefs farther fouth fabulous; and that where all knowledge ceafed he had a right to an hypothefis of his own as well as others. D'Anville fuppofes that Prolemy aftumed this fyfem from the prevailing idea among the ancients, that there ought to be Antipodes in the fouth, correlpondent to thofe of the northera hemifphere. Perhaps alfo a counterbalance of continents was as favourite a notion in the early ages as in modern. But however this error originated, the conclufion of d'Anville is remarkable \({ }^{383}\) : "Nothing," fays he," was lefs afcertained among the ancients, if we may judge "from Polemy, than the account of fome voyages which were laid "to have been effeced round the continent of Africa by the fouth." And parallel to this is the opinion of Voffius \({ }^{284}\) : "Certain it is, si whatever may be faid to the contrary, that the ancients were fo is far from paffing the Cape of Good Hope, that they newer apm "f proached it." Both thefe opinions are likewife fuppored by Strabo \({ }_{3}{ }_{3}\) : who fayss, "t that all who have attempted this navigation "either from the Red Sea or the Straits of Gades, have returned"

\footnotetext{

}
[without effecting their parpofe]; and yet Strabo, while he afferts, this, is as perfectly aftred that ASrica was circumavigable, as Heródotus. In giviag thefe opinions of Ptolemy, Strabo, and d'Anville, 1 feel myfelf fupported by the greatert authorities ancient and modern; it is hoped, therefore that the argument here affumed will not be thought prefumptuous, more particularly as it derogates not fo much from Elcrodotus, from the information he received in Egypt.
\[
\mathbf{P}, T O \mathcal{L} \mathrm{E} \mathrm{Y}
\]
 there is a general correfpondence between Polemy and the Pexiplus, and their difagreement in particulars is not imputable to the authors themfelives, but to the age they lived in. In that age the geograplier did not navigate, and the navigator had no fcience \({ }^{286}\) The geographer reckoned by degrees without oblervation \({ }^{2 s \%}\); the navigator feckoned by his day's courfe. Modern navigators cortect their dead reckoning by obfervations but in the early ages fcience and pracice had litte connection; and yet fo far frometreir betng any charge of error or negligence in this, that it is exacth the reverfe. We are not to condemn the mifakes of Tolemy in longitude or latitude, bur to revere the foience, which pphed the phenot mena of the beavens to the meafurement of the eath. .The navigzo for of the prefent hour is conducted on principles fref entablified by

\footnotetext{
\(\because\) sso Every deanan knows that his dead that he had noaccounts to be dcpended on, max
 zected by obfervation.
\({ }_{281}\) Ptolemy, lib. i, c. g. telis us, exprefsly
}

Ptolemy. The errors of his maps can no longer miflead, while his principle muft be of the fame duration às havigation itfelf. I call the principle Ptolemy's, becaufe he fixed it and brought it into ufe, Thales and Anaxagoras, knew that the world was a fpherc: Eratofthenes drew the, firt parallel:of latitude at Rhodes, and firt meafured a degree of a great circle upon the earth; Hipparchus taught that the meafurement of the heavenswas applicable to the earth. And Diofcorus and Marínus are both faid by Ptolemy to have delineated maps on principles fimilar to his own ; though we may judge what thefe -were, when he fays that Marinus had the latitude of fome places and the longitude of others, but fcarely one pofition where he could alcertain both. But if Ptotemy objects to the method of Maríus, we are compelled to object to the method Ptolemy, ufed to corred it; for he fays, that in going down the coatt of Africa, Marinus reckoned by the days' courferof the woyagers, and finding thefe carried Prafum to \(35^{\circ}\) fouth, he fhortened the eflimate, and placed that promontory under the tropick of Capricom. He then enters into a long argument to prove the infufficiency of this ftandard, and forms another :for himfelf, by confidering the productions of nature as fimilar, at iequal diftances, on bọth fides the equator; a ftandard certainly not Iefs vague; and jet on this ground, and no other, he fixes Prafum in latitude \(15^{\circ}\) fouthh; Now there is a very remarkable coincidence attends the conclufion of both thele geographers; for the Prafum of Ptolemy is precifely at Mofambique, and that of Marinus at Cape Corrientes; and it is fill more extraordinary that Mofambique fhould be the laft \({ }^{\text {st }}\) of the Arabian fettlements in the following ages, and Corrientes the limit of their knpwledge.
\({ }^{298}\) There ivere Arabs lowex down at Sofala, but Molambique nay woll be fyled the kate af their colonies.

From all the evidence \(I\) can collect, and all the circumfances I carr. conbine, I find it impofible to afcertain the fite of Prafum \({ }^{269}\); but I have no hefitation in carrying it farther to the fouth than diAnville does; or in fixing Corrientes as the fartheft poffible boundary to all the knowledge of the ancients: The detail of Polemy goes to Rhaptum, and no farther; fo far he had journals, and the relation of navigators" toconduct him; beyond that, the voyage did not in its regular courfe extend; and if frogle veffels had at any time been carried to Prafum; by the winds and currents, it was accidental. But it Dhould feem that it was heard of from the natives, or the Arabs, rather than feen, as all circumftances and:particulass end with Rhaptum; and the remainder: conifts of a fingle feep to Prafum, that is; near feven degrees, without mention of a port, an anchorage, or a fingle feature of the coaft.,

One thrigs however, is certain; that the name of Prafum is": familar to Marinus who is priot to Ptolemy, and is not known to " the author of the Penipliss: If, therefore, Ptolemy lived in the reign of Adrian, and we have an intervening writer between him and: "ur author, Wie 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 begimning of that of Nero. "There is a Diodorus Samius mentioned in Ptolemy from Marinus, who notices the courfe held: by veffels from the Indas to the coaft of Cambay, and from Arabia: to the coast of Africa \({ }^{200}\). He afferts that in the former voyage they:

\footnotetext{
; 259 There are fome coincidences fo extraordinary, and : fome contradicions fo flrong, that the choice is wholly at a fand. Ptolemy condemins Marinus for making five thoufand fladia, i. e. five hunded miles between Rhap, tum and Prafum; and yet he himfeliz makes it foven degrees, which is almoft the fane thiang. Hut if they agree in this, their differcueg is.
}

failed with the Bull in the middle \({ }^{3 \%}\) of the heavens, and the Fleiads on the midale ays of the main yard, in the latter that they failed to the fouth, and the far Canobus, which is there called the Horfc. I can find no mention of this Diodorts Samius in any other author; but whoever he is, if the date of his work could be fired, it would go farther to afcettain the progrefs of the ancients, the navigation of Hippalus, and the account of the Periptus, than any' dilcovery I have. been able to make. I have reafoned only from the materials before me; and if future inquiry thould develope Diodoras, ir is not without great anxiety that I mul abide the ifine of the difcovery.

Anether circunfance highly worthy of attention is; the argument of Ptolemy \({ }^{293}\), to invalidate the eftimate of a day's courfe. . The - ufual"eftimate he flates at five hundred ftadia for a day, and a thoufand for a day and night; he then mentions, from, Marinas, a Diógenes who was one of the traders to lndia, and who, upon his return, in his fecond woyage, after he had made Aromata \({ }^{294}\), was caught by the north eaft wind, and carried down the coaft for fye and, twelity days, till he reached the lakes from whence the Nile iffues \({ }^{205}\),

\footnotetext{


\({ }_{25}{ }^{3}\) Sue lib. is c. \(y\).
1s洨 It may be proper to examine the monform upon this queftion, \(\because\)
: ans that there is a great lake inland from the coant of Ajan, is a report of which we find traces in alood all the accounts ancient on madern \(j\) but where to fix it, or what it is, feems by no means, afcertaned, D'An. ville notices fuch a lake on' hiṣ map of Africa, and conjectures that it may be the fouree of abe Obii, which iflues at Ampaça and Pate.
}

Ptolemy here make it the erigin of the Nile, and places it in yo fouth and the Nubian geographer carries to 16 , which is ine latitude of the Lake Maraw, while the fource that Bruce viftec is im \(12^{2}\) jorth. Two and twenty degrees is fiacly tou great a difference to fippole between the head of the White and the Muce River: neithur is it probable that ary fontee of the Nite fhould be fouth of the mointains of Abyfinia, which Rennel now Gays are yart of the great Belt that di-

\footnotetext{
- The lake in Ptolemy arc from \(7^{\circ}\) so \(10^{\circ}\) South. Tae fources offtice Nisk are in \(x\) 方 foush.
}
vides
that is; nearly to Rhaptum \({ }^{298}\); he then adds, that Maninus mentions one Theophilus who frequented the coalt of Azánia, and who was carried by a fouth weft wind from Rhapta to Aromata in twẹnty days. From thefe facts \({ }^{237}\) Ptolemy argues, that as five and twenty days are attributed to the horter courle, and twenty to the longer, there can be no ftated meafure of a day's courfe to be depended on. I mult own that to my conception they prove exactiy the contrary; for though a day's courfe is certainly indefinte, where winds are variable, we now know that both thefe voyagers muf have beencarried by the two oppofite monfoons, and that Diógertes lof bis paflage 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 lomewhere about Pate or Melinda. The difference itfelf of twenty-five and twenty days is not fo great as to inff upon with feverity, and we mult likewife add, that both woyages feem in confequence of furprize, and not the ordinary come of the navigation. Marimers, do not nuw, and cerainly could not formerly,
vides Africa, this indeed is not imponfle, as the Indus and the Ganges both cut the great belt of Afia; but it is higinly improbable, on aceount of the vait fiace between. Neither: does it make Piokeny confitent; for though d'Anwhle fith preferes Ptolemy's forres of the Whe River in his map, and Remell docs not difand them. The lakes of thofe fources are placed in \(6^{\prime}\) moril by delnowile, and in a very diferent longitude from Peolemys, whik this lalse of Pedremy's is in \(10^{\circ}\) funth. And here d'Ansille has a lake at fo. but of which he ifpeaks with grest theertainty. Sec Piol. lib. i. c. 9. Dut Ptolemy, in the : 7 th chapter, ex. 'peefily Rates that this lake is' sut near the
conargont, bur bland D'Enville's cartice
 whict he compofed for l.e Grande'standa. tion of Liobo, in 1728 .

2,6 Ptoleny fass, the Pomontory of Rhapta was a little to dle fouth wefi.
\(\therefore=1\) The facts ave the cinions thas \(t\) have great pleafure in thating them to the reado and propofing them the the confideation of any Eiglifh offecr who may be accidentalh brought nil this coati: I imuft notice alfo that Diógues and Dhedobitus äre both Greck manes; a leading, pioof that even under the Romans, this tate was chictiy ia the hands of EbTptina Stecks:
reckon by: an indwidnal, but a generall run; and when they are a the fueep of the trade finds or the monfoons, tiourh the fore of the wind is net pertecity or confanty equal, it is fo generally fubject to calculation, as to tany but few days in very extenfive palagest 'This fort of egimate all feamen have in fach voyages, and on fuch coafts as they frequent. And thofe who know hew nearly the computation of all feamea approaches to the truth, will certainly allow more precifion in the accounts of Marims and the periplâ before us, than Ptolemy is willing to concede. On this point we have a moit remarkable epincidence to noticé; for as Marínus fates the palage of Diogenes, from Aromata to the lakes at five and twenty days, the Periphus afligns exaolly the fame number from Opone to Rhaptum upon a diftance as nearly equal as pofible. The conclufion from this is incontrovertible; for it has already been fhe wh, that the courfes of the journal agree with the actual extent of the conf, and if the pallage of Diogenes agrees with the day's, conres, it is inpofible to admit the fepticin of Polemy.

Sut, from his rejection of the eftimate, me may proceed to his contradition of the fats \(;\) for in his feventeenth chapter he controvers the whole account of Marines and as far as we can collec, his acours was union with the Periptus. The eatons for thating the fatement of the Periplus are contaned the the Whoe of sho peceding pages. "The rean for doubthy Ptomy ss, that his account is not condent with his own detall of the comf,

phos, from finding his great agrecment with it, and that the objections which Ptolemy brings againit Maripus in the feventeonth cliapter apy ply very nearly to the Periphls. Bot Fame convinced
couf \({ }^{35}\), nor confonant to the knowledge of it, which wo have at prefent. He fets out with faying, that the merchants who trade beiween Arabia Felix and Aromata, Azánia, and Rhapta, give a different ftatement from that of Marinus. They mention that the courfe from Arômata to Rhapta is fouth weft; but from Rhapta to Prafuny fouth eaf. This indeed would hoid good for a Cmall bend of the coat, but upon the feven degrees vhich Prolemy atigus to the interval is directly falfe; for the general inclination from Cardefan to the Cape of Good Iope is fouth wet upon the whole; and this turn which he afumes to the fouth eatt, feems only to prepare it for the curve he gives it all round the Antargic Ocean. He then adds, that the village Panon is next to Aromata, and that Opone is fix days from Panôn. If there be not a comption of the text here, or a great error in our conftruction of it, this is in direat oppoftion to his own table as well as the Periphis. For his table gives only fire nimates diference between the two. We next mentions Zengifa, Nount Phalangis, and the bay called Apocopa, which it requires two cowries of twenty-four hours to pafs. Then the Little Coaft of thece fimilar courfes, and the Great Coaft of five; then two more to Effina, one to Serápion, and three more acrofs a bay to Rhapta. Niki, he acde, lies at the commencement of this bay nest to Scrapion. And laft of all he notices a river called Rhoptum, whit a city of the fame name, the metropolis of Barbaria, ' with a vall bay Which muft be paffed to reach Prafum, where the fea is yery fhoal \({ }^{302}\), and round Prafum is the country of the Anthropophagi. Now the

\footnotetext{
cunvined dhis opinion cannot be defended, for \({ }^{30 s}\) Page in .
 Marinusknew or had heard of Pratum, which p. S. the author of the Periphe certaiuly lad not.
}
meaning of this language, if I underftand it right, is, that at Rhaptura is the late fettlement of the Arabs, and that Prafum is in the country of the Negroes, for fo I interpret Anthropophagi. This is not expreffed indeed, but is fo perfectly coniftent with the Periplus that it can hardly be difputed.

The difference that there is between this detail of the coaft and that of the Periplùs, will be belf feen by confulting the table (p 136.); But whatever it may be, it contributes more to eftablifh that joumal 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 Ptoleiny had a journal before him but a worle. I fee the correfpondence between the two, but more confiftence in the Periplus. 1 fee likewife more circumftances in this, more characters, and more intelligence, which parfuades me that it is written by one who performed the voyage, while Ptolemy relates aficr another. The reafoning, therefore, which he buills on this, to correct Marinus, appears of lels weight; for we find all the diftances of the Periplûs correfpondent to the adual nature of the coalt at prefent; and whatever failure there may be in the applicrtion of it to particulars, the leading characiers, fuch as the Straits of Mabel-Mandeb, Ras-Feel, Gardefan, Daffui, Cape Baxas, the Coaft of Seven Rivers, and the Zangucbar Ifands are fo clear and manifeft, 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 vifing the countries of which he treats, muft fubject the fpeculations of the clofet to the determination of navigators on the fpot. To this law I fubmit my inquiries moat chearfully, foliciting information

Information :without fear of the refult, and ready to fand corrected by every intelligent officer who will make this work the companion of his yoyage. One farther obfervation is all that remains in this. part of my difcuifion, which is, the peculiarity that tafum, fignifying. Green, fhould point out a greer cape for the termination of ancient knowledge on the ealtern fide of the vaft continent of Africa, while another Green Cape (Cape Verde) hould have been for nany years the boundary of modern navigation on the weftern fide. If I am not miftaken, Cape Verde has its name from its verdnt appearance when firt feen by the Portuguef; otherwife it might have been thought that thofe who firft reached it had annihisated the great triangle like Juba and Pliny, and thought they had arrived at the Green Cape \({ }^{303}\) of the ancients. , This will not appear: ant idhe obfervation to thofe who are converfant with the ancient geographers, and who know that they found, as already noticed, a weftern Hom and Cernè on both fides the continent, and a Thale from the Orkneys to the fole, But there is another view in mentioning it, which is, that fome future navigator, with this clue to direct him, may, when he is going up the-Mofambique paflage, ftill, find fome characterifick greennefs, either in the colour of the lea, or on the continent, which may enable him to point out the Pram 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 Quiloa or the Zanguebar Illands. Englifh mips generally leave the soaf before they are fo far north, but accident may carry fome

\footnotetext{
303 Inguay fignifies a Leck, but it is alfo may poffily ailude to fach weeds found in ufed. For a fea weed of the fame eohons, and this fra,
}
curious obferyer to the fot, which he may recognize, by knowing previoully where he is to fearch, and what he is to fearch for.

\section*{DISCOVERTES of the Portuguesm.}
XXVI. \(\dot{W}_{I T H}\) veffels of the moff perfect conftruction to encounter all the dangers of the fea, with infruments of all kinds to afcertain the place: of the veflel, with officers equal to every fervice, not only from their intrepidity but their fkill, a voyage performed in three years from Europe to the Red Sea, round fuch a continent as Africa, for the firt time, would have added no fmall degree of luftre even to the reputation of a Cook: and yer fuch a woyage is imputed to the Phenicians in an age when they had neither charts or infruments, when they had no veffels fit for a navigation beyond the Red Sea, or the limit of the monfoons. But to judge of the diffeulty of fuch an undertaking for the firt time, we cannot form our eftimate upon bettci grounds, than by a brief recapitulation of the obfacles furmounted by the Portuguefe, and by obferving that the attainment of the fame objectoof them almon a century, which the Phenicians are faid to have reached in the fhort fpace of tbree years.

Of the progrefs of this difcovery it will be neceffary to trace little more thar the dates \({ }^{3.4}\). Prince Henry, fifth fon of John the firl, king of Portigal, took up his reflence at Sagrez, near Cape Saint Vincent; about the year 406 . The hiftory of his difcoveries is familiar to every one, but, like the hitory of all others who are the

\footnotetext{
304 See Faria and Oloriug ip init. Barbata and Alvareztin Ramufio, Brice, Mickle's Lufad, and Caftaneda.
}
favourites of mankind, it is not fufficient to give him his due merit, which is fuperlacive, but it mult be enhanced by hyperbole. It is not true that in his day there was no geography but in the poets \({ }^{305}\), that he is the inventor of the aftrolabe \({ }^{\text {306 }}\) and the compafs, of the fipt that put thefe infruments into the hands of mariners but he was bred a mathematician, and he procured the beft charts and beit inftruments" the age afforded. "He improved upon" or corrected every one of them, and he taught the application of them in the. beft manner to the cominanders employed in his fervice.

This great man, with one object always in his mind, diftracted, 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 flates of Italy. Thefe were his views, and this was his merit. It was not accident but fytem that carried the Heets of Portagal to the Faft Indies, and Golumbus to the Wef: When Henry firt commenced his operations, Cape Nun, in latirude \(28^{\circ}\). \(40^{\prime} 0^{\prime \prime \prime}\), was the limit of Euronean knowledge on the coaft of Amica, This Cape is juf beyond the boundary of Morocco, and the Portuguele knowledge of it was deriyed from their wars with the Moors of Barbary: Com-
- sos Bruce and Miekle.
\({ }^{366}\) See on the Altrolabe, note infra.
\({ }^{3} 108\) I cannot help mentiouing a cireumitance which contyibutics much to our national honour. Pictro della Valle who failcd both in Engith and Portugu'fé fhips in the Eaft Indies about i620, oblerves that the Portugucie matters and pilots made a myitery of their kiowledge, whereas on board the Eng-
hill hips all the youthis on board were fummoned to take the obfervation at noon; their books and calculations fere then likewife corrected. Purchafe mentions this in fome inne fructions given by the merchants to the commanders they employed and here, perhaps, we may trace a caule why the fcience has alprays been encreafing among the Fughif, and declining among the furtuguede.
mencing the line of his difcovery from hence, in 418 two of his officers reached Cape Boyador, in latitude \(26^{\circ} 30^{\prime} 0^{\prime \prime}\). The fame effort rentored to geography the Canaria of Plinys or gave that name to the inands which retain it fill,' and lie between Non and Boyador. Boyador, however, was not doubled till r434: It was, Fays Faria, a labour of Hércules; anid it was not till 1442 that the difcovery was advanced to Rio-del-Ouro, under tle tropick of Cancer. This same points to the acquifition of gold; and hifory mentions, that the duft of that precious metal thas here firt offered as a ranfom for fome of the natives who had been taken prifoners. Upon the return of thefe veffels to Portugal \({ }^{\text {335 }}\) the fight of gold produced an emotion much more effecual than all the exhortations of Prince Henry had been abte to excite a company was immediately formed at Lagos, and the progets of difcovery was enfured whether Fenty had lived or died. This is the primary date to which we may refer that tura for adventure which formg' up in Europe, which pervaded all the ardent Cpirits in cvery country for the two fucceeding centuries; arid which never ceafed till it had united the four quaters of the globe in commercial intercourfe. Henry had ftood alone for almoft fortý, years, and had he fallen before thefe few ounces of gold reached his country, the firitt of difovery might have perthed with him, and his defigns might have been condemned * as the dreams of a vifionaty; but he lived till iafo, and in the years \(144^{8}\) and 1449 liad the fatisfaction to fee his' difcoveries extended
\({ }^{368}\) 'Brace ublerves, this muft hạve come Erom the country farther South;" wol, ii. p.

309 It will appear hercafter that a John Diaz wes one of the firt pataters of this Company, and from him ferelal of the family
were employed in the future dicorerius, thll the time of Bartholomew Dia\%, the furlt circumnagigator of Afica, in i4s\%. Thus was the comexion formed between the difcovery of Riond-Ouro and the Cape of Good Hope:
to Cape Verde, (inlatitude \(14^{\circ} 45^{\prime} 0^{\prime \prime}\) ) to the Cape Verde inands arid the Agores "This cape was likewife doubled, and fome progrefs is fuppofed to have been made as far fouth as to the equator, but Cape Verde may be confidered as the limit of Henry's difcoveries. He is deferyedly \({ }^{\text {z20 }}\) celebrated by all writers as the reviver of naviga \({ }^{-1}\) tion, and the great founde of that commerce which has raifed the manitime powe of Europe above all the other nations in the world.

After the death of Henry his defigns languifhed during the reign of Alonzo, but the firit of adventure was not fuppreffed. In 147 m the difoweries extended to Cape Gonzales beyond the equator, and terminated with this reiga at Cape Saint Catherine, in latitude \(2^{\circ} 3^{\circ} 0^{\circ} 0^{\prime \prime}\) Touth \({ }^{34}\) John the fecond fucceeded to the throne in 5481 ; and revived the purfuits of Henry with all the andcur of their author. In 484 his fleets reached Congo and penetrated to \(24^{\circ}\) fouth. It was in Benin that the firft account of Abyfinis was received; and nearly about the fame time John fent ont Bartholomew Diaz with three fips, who firf circumnatigated the extreme point of Afica, and difpathed Covilhain in fearch of India by Egypt and the Red Sea. The date of Diaz's expedicion is fixed in 1466 , nearly eighty years after the commencement of Henry's plan, and the expedition of Covilhamis affigned to 1487 . ' i have recapitulated thefe facts and dates not for the purpofe of repeating a liftory kndw to every one, but that the reader may compare the difficulty of profecuing this dif.

\footnotetext{
suo Mickic xssix. frem Faria, vol. i. p. 2x. failed in confequence of Covilban's iarelli:

Sce his claracter, p. \(x 8\).
3"! Taria, voll i: p. \(20,21\).
- 3a4 Thete dates are of confequence; becaite Brice, vol tit. p.' zo8. fuppofes Diza to have
gence, which is direely contrary to the teltimony of Faria, Caltaneda, Alyarcz, and Mick!.: When Cavilhan wote he certainily dia not knows of Diara's fuccefo.
}
coveng by the Portuguefe, with the facility atuibuted to the attempt Qf the Phenicians; in their three years' navigationt

But Covilham is a name of fuch importance, his hiftory fo extraordinary, and his account fo connected with the periplự, that to pafs him in filence would be an unpardonable omifiono. Joha IL. in the beginning of his reign had fent two friars, one of the order of St. Francis, and the other John of Lifbon, with a third who was alayman, into the Eaft \({ }^{3 i 4}\), in order to difcover India by land. Thefe travellers went; fot want of the Arabick language, no farther than Jerufalem: In the year 486 or \(1497^{3 n 5}\), he therefore fent fohn Pedreio de Covilhan' and Alonfo de Payva:on the fame fervice; and after them two Jews, 'Abraham of Beja and Joleph of Lamego. As nothing ca the the folicitude of the king more than thefe circum ftances, fo nothing can prove his penetration more than this choice of Covilham; the was a folder, het had lerved in Africa, had been an ambaffar to Moroceo; and had acquired the Arabick language to "perfection m obedience to ht fovereign he departed from \({ }^{\text {" }}\) Lifbon \({ }^{36}\), and took the route of Barcelona and Naples; and thence by Rhodes and Alexandur to Cairo. He there joined a party of Mograbin \({ }^{\text {st }}\) Mahometans," and went in their company to. For, Suakem, and Aden: At Aden he embarked for Cananor on the coalt of Matabar, and yifted Ormuz, Góa, and Calicut. He faze

\footnotetext{
. \({ }^{\text {in }}\) Called de Covilhan from tre name of his bith place. Oforius always writes John Betreio See vol.3. p. \(4,7 \%\)
\(31+\) Cataneda, p-2.
3ts. I cpllect that Cowham cntered Abyifina aif 488 from Alvares so Remufor for
}

\footnotetext{
Alvarex fays he confeffed him in is2 \(x\), thirtythree jears after he had entered the country.
inc Alrarez in Ramefo, vol. i. pi 191. 237. et feq.
\({ }^{33}\) Mons of Barbary, Wutera Arabs.
}
the pepper and ginger \({ }^{318}\); beloard of cloves and cinnamon. After this he retumed to the coaft of Africa, touched at Zeila, and went down the coaft as low sofala, the laft refidence ef the Arabs, and the limit of their knowledge in tizat age, as it had been in the age of the Perim phusi. "The Arabs of Covilham's age kaery indeed that the fear was ravigable to tbe: fouth woft, as their earlericcuntrymen atd when the author of the Periplus was in the country, thut they knexe not wohere it ended." With this intelligence; ate what he could collec of the Ifland : of the Moon, or Madagafcar, he retumed by Zeila, Aden; and Tor to Cairo. At Cairo he met the two Jews, Abraham of Beja and Jofeph of Lamega; by whom he fent an account of the intelligence he had collected to the king, and in the letter which contained it, he added,
ss. That the hips which failed down the coalt of Guine might " be fure of reaching the termination of the continents by perffing "in a courfe to the fouth; and that when they fould arne the the © Eaftern Qcean, their bef direction muft be to inquire for Sofala thand the thand of the Moon."
4. It is this letter above all other information which with equal juftice and withe equal honour affigns the theoretical difcovery to Gordham as the practical to Diaz and Gama; for Diez returned without bening any thing of ladia \({ }^{3 n}\), though he bad panfed the cape; and Gama did not fail till ofter the intelligence of Govilhan had ratified the difcovery of Diaz.

\footnotetext{
318 What a teftimony do thefe two words give of his veracity; and what a variety of onneteded circumances do they fagget to thise who know the country, the trade, aud
the defigns of Johni Alvarcz feams to write
what Covilham dichated. Alvarez: p. 237.
318 Callaneda, P. 2.
}

Covilham was not to receive the reward of his fervices; one part of his commiffon he had not exccuted, which was, to vifit Abyf finia; he returned, therefore; from Cairo to Ormuz, and from Ormuz once more to Aden; where he waited till he foutd the means of introduction into Abyflinia. Here he was "received with kindnefs, but hence he was never to xeturn; for in Abyffinia he was fonnd by Alyare \(z^{3=3}\) the almonen to the embaffy of Jonn de Limas in 1525 , who oblerves that the king had given him a, wife and lands, and that he was belowed 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 pleafure on the hiftory of this man, (whom Alvarez defcribes fill as a brave foldicr and a devout Chrift. ian, when I reflect upon what muft have been his fentiments on hearing the fuccefs of his countrymen in confequence of the difcovery to which he fo effentially contributed. The were fovereigns of the ocean from the Cape of Cood Hope to the Straits of Malacca: be was fuill a prifoner in a country of Barbaians.

There is a circunftance a tached to the hifory of Covilham of great geographical mportance, which is the map or chatt committed to his charge by Emanuel at that time prince and afterwatd king of Portugal, which was copied and compored by the licentiate Calzadila, afterwards biliop of Vifeo, a doctor Rodrigos and a Jew named Mofes, with great lecrecy in the houle of Peter

\footnotetext{
 vol: i,

Alvarezim Ramufio, vol, it p. 23 o.
}
of Alcazoya. This map was put into Coviluam's hands with orders to make his way, if poffle into Abytinian and difo cover whether there was a paflage round the extremity of Africa, which the framers of the map aflerter to be pracicable, on the authority of fome obfcure information which they had collected.

Bruce afferts \({ }^{34+}\) that Covitham 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 teprefented. Bat whence Bruce draws this account I cannot difcover, and there was facha: map among the Moors it mult be a fiction, for none of them had evel paffed Corrientes by fac and cities there are none fas for

\footnotetext{
\({ }^{322}\) I imagine it is the compofition of this map which las induced Mickle to fay; that the Aftrolabe was invented by two Jews, Rodrigo and Jofeph at Libon; and I have litite doubs that the ufage of the word Altrolabe deceliyed hinp, or thic author fyom whom be eopied. The primary meaning of. AftreJabe wace an armillary fphere, Ptoleny xeduced quato a planifphere ; and yet the name of Affrolebe continued till it becane arplied to maps like hibis in fercographick projection. The Sea Aftolibe is a dfferent inftrument, for taking the altitude of the fun, Rars, "ke. It is a the wieh a moveable index: See Chanibers's Witctionary, in tisce: This laft fort of Attrolabe is defcribed in Chaucer's tratile on that fubsec, whicil bears date 1394, fo that if Mickle means this inftument; it coutd be no minention of the Jewilh doctor's:' See Chaucer, Ury's edition, 'p 440. and that he dee meari it, I refer to his own words, Liuflad; p. 193. Note P. Where he quotes di Barros; Dee: i. lib. iv. c.' 2. I cannot refer to ai Barros; but in Alvarè (Ra-
}
minio, val. f. p. 236.) I find the circumfance of this map by Caltaditia, with the name of Kodutgo and Mofes che Jew, whoin I hapoie to be the Jofeph of Tickle Purchas volh it: b. ii . p. 8. 后caks with much more propriety ; he fays the Aftrolabe was appled formenty. only to attronomical purpofes but wias accommodated to the ufe of marines by Martia Sohemus;' a feholar of Regiomontanus, atithe fuggeftion of tohn king of Portegal:
\({ }^{323}\) Et dipaflare un di loro mell' Etbiopia a vedere il pacle de! Prete Jannilet fe ne i fuod nari fulfe notitia alcuna che fi polfe palare ne mari, de poncnte; perche li detti Duttori dicewhio haverne thoveta rod jo che memoria.
 that Coviliam fet dowr the names of places in the chate he carried with him, albeth:ill (wrimena.

325 "Howbeit there dipeared unto them no "s townes within this lane by reafor that along "thofe coafts there are none frituated." Can Ataneda, 1. 8.: " but further withis there be "townes and villages."
almolt twenty degree from Corrientes to the Cape, or from the Cape for twenty degrees to the northward on the weftern coaft.

That fictitious maps of this fort might exif both in the ladies and Europe, among Mahometans \({ }^{3165}\) and Chrintans, is highly pro* bable, for it was a prevailing notion in all ages, that Africa was circumnavigable, And it has been repeatedly noticed in this mork, that on both coafts, witien the royagers reached the limit of dif covery, the report of the place was always in favour of a paflage. We may allow even more than this, and fay, that the natives had gone \({ }^{327}\) by land much farther to the fouth than the navigators by: fea and that theit accounts were almof unanimous in maintaining the fame affertion. The frongeft evidence I have fonnd of this is that which the Portuguefe afterwards report of Eenomotapa; a great nation when obcy arrived in Africa, and the remnant of a much greater, whick had poffeffed cities of great extent and regular buildings; and from which it was fade there were public roads running far to the weft and quite down to the Cape \({ }^{328}\). We are not to believe the re reports, perhaps, in their full extent, but the mins of great buildings feem authenticated, and the exiftence of gold and gold numes is univerfally aferted. Hcre is Bruce's Ophix \({ }^{329}\),

\footnotetext{
- sko The communication between thic Oriental and Atlantick' Ocean feems to be intimated in \({ }^{\text {an }}\) Abulfeda, ( \(p\). goo Gagnier's tranfation, MS. in the Bodecan, ) Eut if is fo oblcure that \(T\) am not certain that \(I\) compreliend it even in the eramation.
S. 3 theis feems to appear from Al Edifin, p 2 2.xtifeg. where he menciens Scifala:' and feyeral other phaces beyond it with great ob: fcurity:
'izzasee Ed. Barbofa in Ramufo, vol. i. p. 288 . et feq. Barbofa'mentions fuch a rood:
}
that it went far fouth may bc very true ; but hardly to the cape..
\(3=9\) Pere Dos Santos in Lote's hifitury of Abyfliaia, finds a Toura or Afura inland fyoin Sofala, and concludes it to be Ophir P. 26I. Fr.' ed. ; He inds aifo all that solomon brought into Judea except pleacocks; but his commentator offerves that Thelkkiini, the Hichrew termy inay he traumated peroquets as well as peacocks. I leave the voyage to Ophir for the difculfion of ofleres, obferving only that the circumfanges atcending it are in favour of Africa, though Goffeinin confines it to. Saběa.
the tradition of the qureen of Sheba \({ }^{\text {a30 }}\), the coall of Sofala, and the great river of Chäma.

Such a nation as this, while in a flourifing flate, we can fuppofe to have cretended its commications far to the wef and to the fouth, with roads beth ways as far' as their caravans could find purchafers to invite them.". With this nation the Mahometains of Sofala. and Mofambique muft of neceffity be connected ; and if they had a map "or chart of the cape, from the information of this nation it muft lave been collected. It is the mention of cities in this map. which "alone makes" us fufpect that it "was the product of theit -own imagination. Maps of this fort are fuppofed to have been framed as readily in Europe as in Afia. And one of thefe Mickle fpeaks of in the introduction to his tranflation of the Lififad in the following terms:
क"c.Antony Galvan relates \({ }^{33}\), that Francifco de ofoufa Tavane tod " him, that Don Ferdinand told him, that in 1526 he found in the "monaftery of 'Acobaça a chatt of Africa an lundred and twenty " yeats old, which was faid to be copied from one at Venice, whicli: us alfo was believed to have been copied from one of Marco Polo, "s which, according to Ramufio, 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 difcovery; and its date of \(1_{526}\), ainont thinty years after the difoovery had.

\footnotetext{
330 This tradition might well extead to tibis country, before the ansval of the Matometant onthe coatt, from the early A mbs; ana much more, Arongly from the Abyfiniane, who in their better days do certainly appar to have
}
had conquelts in Aratia, and connections with: Egerpt; and in the interior of Africa to the weit and fouth.'
isi Intiod, p: xaxiv. \({ }^{-1}\)
actually taken place, affords full ground for the fafpicion... But let us fuppofe that the depicted travels of Marco Polo, which adorned one of the churches at Venice \({ }^{332}\), actually contained the Cape of Good Hope; or rather the extreme point of Africa, it proves nothing. It Thews only that the prevaling 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 draftiman. -

Marco Polo \({ }^{33}\) 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 Magaftar and Zainzibar,": fays he, " there is no farther "c navigation fouthward \({ }^{33+}\), becaufe the fea rans there with great "velocity to the "fouth, fo that it would be impofible for any "veffel to return解, It muft be here noticed, that as he writes Magaftar and Madaftar for Madagafcar, fo under the name of Zanzibar he comprehends the main coaf of Africa, which fill takès the fame name, and carries it to the extent of two thoufand miles. Whatever error there may be in this, his mention of the current
- 333 In the church of Saint Michael de Mu* rano near Venice. Rami. vol. ii. Dichiaratione, pir 17.
\({ }^{331}\) There was a Portuguefe verfion of Marco Polo poblithed in lortugal in rgoz, by a genteman of the court, ateendant on Elconora, queen of Emanuel, who likewife publifhed the account of Nicolas des Contes or Conti, and of Hierome, de Saint Etienac. This publicationj, ia 1502, makes it highly probable that Macco Polo's work was known in Portugal previous to the voyage of Diaz, and was now publiked when it could not in-

\section*{terfere with the glory of the difcovery, and} might give information of the countries in the eaft.
\({ }^{33+}\) It is to be obferved that the reading of this paffage is very different in Ramuno from that of Bergeron. But both agree in Ating. the impetuofity of the currenteto the fouth. . \(X\). have followed Ramulio, as I diwaysdo, in preference to othor trandators. . See Ramufio, wol. ii. M.: Polo, lib. iii. c. 35. Bergeron, cap: 39. See the account of this map; Ramu-. fio, vol ii. Dichimatione, p. i7.
between Madagafeat and the continent is an illuftrious tmoth, the more remarkable as \(M\). Polo was never on this coalt himfelf, but muft have derived his knowledge of the fact from the Malays or Arabs, whe were the only navigators of the Indian Ocean in his age. And the reafon affigned for their not paffing to the fouth, though they knew there were [lands or] illands in that quarter, is the very fame which the Arabs of Sofala and Mofambique gave to the Portuguefe at their arrival on the coaft. The whole of this is confitent with the knowledge of the Greeks and Arabs, which terminated at Prafum; and in all ages the current of the Mofambique Channel appears. to have been an infuperable 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 moft efficient caufes which led to the difcoveries of the Portuguele. Ramufio has preferved the hiftory 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 cafe \({ }^{335}\) or cabinet near the choir, which contained this map that attracted the particular notice of all travellers who came to Venice, The map was compofed by a lay-brother \({ }^{336}\) of the convent, from another map or chart which had been brought home by Marco Polo and his father, on their return from Tartary \({ }^{332}\) : The original had been disfigured, and brought into difrepute by the inferticn of a variety of things too modern for the age, and ridiculous in their
\({ }^{336}\) Converlo,

\section*{202}

\section*{PERIPLUS OF TEIE ERYTHREAN SEA.}
appearance \({ }^{338}\); fill it was evident when the work of M. Polo came to be read again and confdered, that this map and chat was compofed by him or under his direction. The artift therefore who undertook. to cony 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 'rifited as the compoftion of Marco Polo kimfelf. In this map a variety of curious particulars are obferved, unknown before, or at leaft to the ancients; and more efpecially that towards the Antarctick circle, where Ptolemy had placed his unknown fouthern \({ }^{339}\) continent without fea; there appeared in this map; made fo many years ago, the fea furrounding the extremity of Africa, fo that a paflage 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 Portuguefe afterwards called the Cape of Good Hope.
\(\because\) Three queftions arife out of this account, ift, Whether the delineation of the Cape in the copy is a proof that it exifted in the original: adly, Whether this copy is the original from which the binop of Vifeo's map or chart was taken, which was delivered to Covilham; and 3 dly , Whether the bifhop of Vifeo's map is that which is mentioned by Bruce.
- Firft. It certainly does feem probable that the report concerning the termination of Africa in a cape was as current in Afia and the Indies as in Europe. That either the Chinefe or the Malays'did

\footnotetext{
\({ }^{338}\) As the old maps contain monfters both \&c. might have been the additions here comon land and fea, fo it is highly probable the plained of. Ruck of M. 'Yolo, libs iii. c. 35 . and Griffins, 339 Terra Auftralis incognita.
}
navigate the ocean as far as Madagafcar, and the coaft of Zanguebar is evident; for Marco Polo was not there himfolf, and could have his account onfly from them or from Arabs \({ }^{3+0}\), whom he might meet with on the coalt of Malabar from Arabia or Africa. "Ir flhould feem however rather from the former than the latter, for as Marco Polo is the firft author who introduced the name of Madagafcar \({ }^{3 n 2}\) into Europe, fo is it probable that this title is not given to it by the natives, but by the Chinefe, 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 fill current in that ifland. Now if the Malays traded to this ifland, or the coaft of Zanguebar, they muft have had intercourfe with the Arabs fettled there; and that the Arabs did believe the poffbility of a circumnavigation has been proved already, both from their obfervation of the interior, and from fuch intelligence as they might derive from Benomotapa. From fome of thele fources there cap be little doubt that Marco Polo, if his map or chart contained the continent of Africa, might affign a termination to the coaft, and convert that into fea which Ptolemy and his copiers had afligned to their fouthern continent.

But there is a Aronger argument for believing that this African Cape was in the original of M. Polo, and not introduced by the artift who copied it, which is, that M. Polo himfetf fpeaks of the coaft of Zanzibar, not as the continent, but as anilland two thou-

\footnotetext{
\({ }^{3+0}\). The Arabs had been in India 600 years Spread on the coaft of Malabar and Ceylon, before the Portuguefe arrived at Calicut, according to the Portuguere accounts, and we know from Pliny, that they were fo fettled or
fpread on the coalt of Malabar and Ceylon,
that their fupertitions had been adopted by the natives previous to his age. \({ }^{3 ; 2} \mathrm{He}\) writes Madaflar or Megatar.
}
fand miles in circumference \({ }^{342}\); whatever error there may be in this; it is felf-evident, that if he made it an ifland, he muft give it a termination on the fouth, as well as on the cther three quarters; and if he delineated this, that fouthern boundary muft be the very limit of Africa, which Ramufio fays the copy contained. It is for this reafon moft efpecially, that we ought to admit the fact; and if the fact is admitted, to M. Polo muft be afligned the honour of firft giving this intelligence to Earope, and of opening the way for the difcoveries of the Portuguefe.

Secondly. What the map was which was compofed for the ufe of Covilham by Calzadilia, afterwards bifhop of Vifeo, by Dr. Rodrigo and the Jew Mofes, cannot Be determined without better materials from Portugal than are in my poffeffion; but there is great reafon to belicve, that the principal fource of that work was the map of Marco Polo, becaufe the firt printed edition of his work was in Portuguefe, dated Lifbon 1502, by a gentleman in the court of Elconora, wife of Emanuel; and this being only four years after the voyage of Gama, when every firit was roufed by the difcovery, it feems highly probable that the intelligence contained insthis book was in poffeffion of the court of Portugal prcvious to the expedition, and had been made ufe of by the kings of that country, for the purpofe of inftructing and encouraging thofe who were employed upon that fervice.

It is to be obferved, that the original work of Marco Polo was compofed in Italinn by a Genoefe, who took his inftructions from the mouth of the author, when a prifoner at Genoa, about the
ycar 1300. From this Italian copy \({ }^{3+3}\) a Latin tranflation was made at Bologna, and publifhed in MS. two copies of which were preferved, one in the Library of the Canons of Latran at Padua; the other at Colonia \({ }^{344}\) in Brandenburg, in the Library of the Eleator. Both copics are fuppofed to be nearly the fame, but differ from another which was made at Bâlle. Thefe are all manufripts, but from one of thefe it may well be inagined that a copy had been procured by the Portuguefe, during almoft the whole century that their mind was fet upon this object, from the firft attempt of prince Henry in 1406 , to the voyage of Gama in 1497. The edition of this work from the prels, 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 difcovery. Thefe circumftances, it is true, amount to no proof, but afford ample ground for believing that the man delivened to Covilham was framed from this fource of information. Whether the original map and chart of M. Polv, in the church of 5 . Nichatel di Murano at Venice, or the copy which replaced it had been copied by the Portuguefe, I have no means to determinc ; but as it feems to have been open for the infpection of all vifitors, ant as the ardour of the Portugucfe was pointed to rival the commerce of Venice, from their firft outfet to the attainment of their object; it nay reafonably be concluded, that if they had no Portuguefe \({ }^{245}\) in
that

\footnotetext{
\({ }^{343}\) The whole of this is from the preface of Andie Maller Grieffenhag in liergeron.

344 What Colonia? I with the German Latinilds would gire us the modern narres of cities.
a+; Bruce, vol. ii. p. g6. fays Don Pedro

Henry's brother brought a map from Venice, in which the cape was marked; f the he gites no authority. If I had kiown whare to fird this fiet, I could have deter nined the: quellion. I do nut doubt it, but I wilh bohs Brace and many other authors wouid plefer
}
that city to collect intelligence, they employed Jews for that purpofe; for Jews they feem ever to have perfecuted and trufted at the fane 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, condefcended to give us his authority. I fufpend, therefore, all judgment upon this till I know the foundation on which, it fands; it feems rational that the Mahomedans fhould have charts of their navigation \({ }^{346}\), as well as the Europeans; but as no Mahomedan or Arab had paffed the cape, the delineation of it muft have ftood upon the fame fort of intelligence as Marco Polo had acquired in the eaft, or be inferted from imaginar. tion and the prevailing belief of the fact. Whenever I can, difcover the authority of Bruce it will deferve confideration, till then I fhall 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 nore probable account than the report of, this Moorig map, which contained cities that never exifted. Such a corrected map of Covilham's we read of in Caftaneda; "who feems to have feen it, as he fays it was ill-written and disfigured; this I take to be the map to which Bruce alludes.
the information of their yeaders by marginal had, as late as 1400 , may be feen by the map
references to the vanity of a clean pagc. It of the world I have inferted in the appendix
does feem highly credible that the map of M. from Al Edrifh. The Great Cape of Africa
Polo was brought to Portugal by this Don is not in that, though potterior to M. Polo;
Pedro.
3,6 What fort of charts or maps the Arabs the copy of his work is later.

\section*{Voyages of Bartholomew Diaz and Vasco de Gama.}
XXVII. From the year \(1410^{347}\) to 1486 the Portuguefe had been engaged in advancing their difcoveries to the fouth; fome progtefs had been made in every reign; but the honour of doubling the extreme cape of Africa was referved for John the fecond. In \({ }^{348}{ }^{1486}\) Bartholomew Diaz failed from Portugal with three fhips; he is called an officer of the king's ftorehoufe at Lifbon, but is manifefly of a family \({ }^{349^{\circ}}\) which had long been employed in thefe voyages of difcovery; and had probably been gratified with a place of truft for merits in the fervice. He advanced to \(24^{\circ}\) fouth, one hundred and twenty leagues beyond the track of former navigators, and then ftretching boldly out to fea, never touched upon the coaft again till he was actually forty leagues to the ealtward of the cape, which he had paffed without feeing it in his paffage.

This however was not the termination of his difcovery, for he proceeded to the river del Infante, upwards of fix degrees to the eaftward of Agulhas \({ }^{350}\), which is the moft fouthern point of Africa, and near a degree beyond the Cape of Good Hope. The reafon of his return is not quite evident; but he had parted \({ }^{35 x}\) with one of his

\footnotetext{
347 One thoufand four hundred and fix is given as the firlt date of prince Fenry's defigns.
\({ }^{3+8}\) Sce Caftaneda, Faria, Mickle, Oforius, Bruce.

349 We meet with Dinis Diaz and Vincent Diaz in 1447, and John Diaz, who was one of the firit company erected at Lagos in 1444. Faria, p. 9.
names itill decorate our charts, and it is but juftice to preferve the names and language of every difcoverer. The French have had the vanity to difplace feveral appellations of our late difcoverers. But La Peyroufe was honefter than his countrymen.

35t He met this veffel on his return with only three of the crew alive. One died for joy.
\({ }^{350}\) Cape Agullhas or Needle point. Thefe
}
little fleet on his paffage, and it may be prefumed that the impoffibility of collecting information from the natives, with the continuarce of the coaft to the eaftward, which he might have expeited to trend to the north, contributed to his determination. Five and twenty leagues thort of this river he erected his crofs on a rocky illot, which ftill bears the name of De la Cruz, in the bay of Algoa \({ }^{35 z}\). This is a perpetual monument to his honour, and the Grand Cape which; He faw on his return he ftyled the Cabo Tormentofa, from the tremendous ftorms he had encountered on his paffage. The different fentiments with which this difcovery infpired his fovereign upon his return, reverfed the omen, and changed the Stormy Cape into the Cape of Good Hope, a name which has fuperfeded the pretenfions of all occupants and all conquerors, and which it is hoped will preferve the glory of a generous monarch, and his hardy fubjects, 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 almoft a century; but India was neither found, or feen, or heard of, this was wanting to the fame of Diaz, and this was the caule that all the glory of the difcovery attached to Gama. Gama was a man of family \({ }^{333}\), 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 difcovery, but returned from St. Jago, and was again employed in a fecondary command under Cabral, in the

\footnotetext{
\({ }_{3}{ }^{2}\) Algoa, in the Englifh charts, properly Del Agoa, (Agua, water) there are two Del Agoas.

353 Faria. But Caftaneda takes no notice
}

\footnotetext{
of his family; he at leaf had armorial bear. ings, which, in that age, implied the rank of gentleman. He bore a Gama, i. e. Dama.
}

Heet that failed to India in 1500 . In this expedition Brafil was dikoovered, and in the paffage from thence to the Cape, four luips, perihed, one of which was that of Bartholomew Diaz with all on board \({ }^{344}\).

It would feem natural that the difcovery of Diaz fhould 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 paffing in the council of Portugal, whether the attempt itfelf 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 relinquifhed, or the prior difcoveries neglected ; John II. had difpatched Covilham and his companions into the eaft, and the eftablifhments. on the coaft of Guinea had been attended to with anxious folicitude. At length when Emanuel had determined upon profecuting the difcovery of India, Gama was felected for the fervice, and was. conducted to affume his command on board the fleet, under the moft folemn aufpices of religion \({ }^{33}\). The king, attended by all his court, accompanied the proceffion, and the great body of the people was attracted to the fhore, who confidered him and his followers rather: as devoted to deftruction, than as fent to the acquiftion of xe nown.

334 Mickle Lufiad, p. 20I. Caflaneda, or the nation. By alf that ive can collect of p. 73.

355 Brace, who is no cneny to religion, no Volney, has condemned the religious folemnity attendiug this embarkation, as difcouraging; but he feems neither to have conidered the age

The fleet confined of three fmall hips and a victualler, manned with no more than one hundred and fixty fouls; 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 Barcholomew.
Nicolàs Coello.
Pedro Alanquer, who had been pilot to Diaz.
Gonzalo Gomez.
They failed from Lifbon on the 88 th of July 1497, and after parting with Diaz at St. Jago, reached the Bay of St. Helena in latitude \(32^{\circ} 35^{\prime} \circ^{\prime \prime}\), on the 4 th of November. They had on board feveral who fpoke the Arabick language, and others who had acquired the Negro tongue by former voyages to the Gold Coaft, Beniin, andCongo. In the Bay of St. Helena they found the natives which we now call Hottentots, as we difcover by the mention of a peculharity in their utterance, which the journal calls fighing \({ }^{386}\), and which Vaillant defcribes by the term clappenent, a guttural cluck, the characteriftick of their language. None of the Negro interpreters underftood this dialect.

A quarrel arofe between the voyagers, and thefe harmlefs and timid natives, from the fufpicion of treachery, natural to thofe who vifit barbarous nations for the firf time; and in the fkirmith Gama himfelf was wounded in the foot. This accident haftened their
departure. They left the Bay on the I6tia of November; Alanquer declaring that the cape could not be much farther than thirty leagues diftant, though he could not defcribe it, as he had paffed it without feeing \({ }^{37}\) it, under the command of Diaz. For the four following days it was a continued tempeft at fouth fouth weft, during which Oforius \({ }^{388}\) introduces the account of Gama's confining his pilots in irons, and ftanding to the helm himfelf. Caftaneda mentions nothing of this circumitance; his narrative indeed is brief and dry, but feems to be a copy of the journal \({ }^{359}\). 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 \(\mathrm{St}_{\mathrm{p}}\) Bras in our charts; and the natives found here were the fame as thofe of St. Helena.

At St. Blas the fleet ftaid ten days and was fupplied with oxen by the natives. They found alfo penguins and fea lions in great numbers. They difcharged and burnt the victualler, and then proceeded on their woyage to the ealtward. The rock de la Cruz, where Diaz had erected his pillar, was', by eftimation fixty-five leagues from St. Blas, and the river Del Infante fifteen farther to the eaft. When Gama fet fail the current was flronglagaint him, but having the wind in his favour, which blew a form from the 8 th to the I \(3^{t h}\), he pufned forward till he was haty ieagues from St . Blas, on the 16 th of December. Here he made the coaft \({ }^{360}\), which

\footnotetext{
357 I follow the Journal of Caftaneda; he firt perfon, without appeaxing contcious of muf have feen it on his return. \({ }^{3} 58\) Vol. i. p. 48.
359 It often glides from the thind into the Foul Cape.
}
had a good appearance, with herds of catile on the fhore. He palled wichin fight of de la Cruz, and wilhed to have come to ma anchor at the river Del Infante, but the wind being adverfe, he was obliged to ftand out to fea, till on the 20th of December it came again to the weft, and carried him through the currents which had oppofed him all round the Cape. The good fortune which attended him in obtaining this wind, at the time when the current was mot unfavourable, infpired gratitude in the heart of Gama to that Providence which protected him; he offered up his tribute of thankf. giving, and declared to his people, that he verily believed it was the will of God that Indlia fhould be difcovered \({ }^{365}\).

From the 2oth to the 25 th he ran along a coaft which he ftyled Terra de Natal, from the celebration of the Nativity on that day. It lies between latitude \(32^{\circ} 30^{\prime} 0^{\prime \prime}\) and \(30^{\circ}\) fouth; and on the 6th of January 1498 he reached a river which he named De los Reyes, from the feaft of the Epiphany; he did not anchor here, though in great want of water, but proceeded till the inth, when he landed at a river called Cobio \({ }^{362}\), 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, wha even in that age jore the fame marks of fuperior civilization, which they preferve to the prefent hour. A circumitance more fortunate and more extraordinary wae, that Martin Alonzo underitond their language. This is a moft remarkable occurence, as Alonzo could fearcely have been lower than Mina on the weftern coaft, which is forty degrees from the Cape, and the breadth of the continent

From weft to eaf cannot, in the latitude of \(20^{\circ}\) fouth, be lefs than 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 reafon to doubt the fact, Thefe people had mean houles, but well furnifhed, and were poffeffed of iron, copper, pewter, fatt, and ivory.

The fleet ftaid here till the. Igth, and obtained; wood, water; fowls, and oxen. Proceeding on that day to the northward, theyr. continued their voyage till the 24 th ; in this run they paffed Cape Corrientes and the low coaft of Sofala without anchoring, till they reached a river, which, from the circumftances that arofe, they had afterwards. reafon to call the river of Good: Signs \({ }^{363}\) (de bons* Sinas):

It is a circumftance particularly noticed by the hiftorians, 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 \({ }_{j}\) which had fails made of the Paldo \({ }^{36+}\). This roufed the attention of every one on board, and in the courfe of a few days two men of fuperior rank'came orr board; who had garments of cotton, filk, and fattin; this was the firt infalible fign of the produce of India, and hope glowed in every heart, The language, however, of theit vifitors was unknown; they underitood not the. Negro dialect of Alonzo, nor the Arabick of Alvarez \({ }^{365}\), but they. intimated by figns that they hat

\footnotetext{
\({ }^{363}\) Faria, p. 3 .
364. Faria. The exprefion is not ciear, but intimates cloth made of fibres of the coco pulm. It is worthy of notice that Caftaneda
}
mentions loats. here, but nothing of fails till they approached Morambique.
3.5 Oforius fays, one of them fpoke Arad bick very imperfeetly, vol, i, p: 51. .
feen thips as large as the Portuguefe, and feemed to mark the north as the quarter where they might be found.

Here then Gama determined to prepare for the completion of his difcovery. The natives were quiet; they were not Mahomedans. The women received the feamen with complacency, and provifions were eafy to be procured. Thefe were all inducements for laying his weffels a-ground and careening them. He gave orders accordingly; and during a ftay of more than thirty days, which this fervice required, no difpute arofe to difturb the harmony between the natives and their. vifitors.

This river is the Zambezè, which is navigable for two hundred - leagues up to Sucumba \({ }^{\text {s66}}\), and penetrates into the interior of Benomotopa. It falls into the fea through a variety of mouths, between latitude \(19^{\circ}\) and \(18^{\circ}\) fouth, which are known in our modern charts 'as the rivers of Cuamo and Quilimanè, from a fort of that name upon the northern branch \({ }^{357}\). I find nothing in Caftaneda 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 progref6; if that chart was furnifhed with the latitude, Gama muft bave known that he had now paffed the barrier, and that the difcovery was afcertained. The moft fouthera branch of the Zambezè is two degrees to the north of Sofala. He mutt likewife know that the directions given by Covilham were to inquire for Sofala and the illand of the Moon \({ }^{388}\). And whether he

\footnotetext{
\({ }_{36}\) Reffende, p. 80.
\({ }^{367}\) I cannot afcertain which mouth of the Zambezè Gama anchored ing. I fuppofe it to be the largett, which is that moft to the north, as Refiende places the river of Good Signs in
}
in latituce \(17^{\circ} 50^{\circ} 0^{\prime \prime}\). P. Lobo calls Quilimane the river of Good Signs, p. 202, ed. Paris, Le Grande.
\({ }^{368}\) The Iland of the Moon is an Arabick name and occurs in Al Euriff.
undertiod the language of the natives or not, the name of Sofala \({ }^{360}\) mult have been pronounced to them in an intercourfe of thirty days, and the quarter where it lay muft have been obtained.

We arc here approaching to a junction with the difcoveries of the Arabians, the Egyptians, the Greeks, and Romans; and though polfbly none but the Arabians \({ }^{370}\) 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 flyled Agifymba. Ptolemy \({ }^{371}\) mentions two Roman officers, Septimius Flaccus and Julius Maternus, who had been engaged in thefe expeditions to the fouth, Flaccus from Cyrene \({ }^{372}\), and Maternus fromi Leptis. Flaccus reported that the Ethiopians [of Agifymba] were three months journey fouth of the Garamantes, and Flaccus feems to have performed this march himfelf. 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. Itolemy does not allon the ufe made of thefe reports by the geographer Marínus, which would carry Agifymba into \(49^{\circ}\) or \(55^{\circ}\) fouth latitude, ftill under his own correction he carries Prafum \({ }^{3 / 3}\) into latitude \(15^{\circ}\) and Agifymba fomewhat farther to the fouth.

Wonderful as this march of Flaccus is to contemplate, through the very heart and moft defert part of Africa into fuch a latitude, it is ftill more extraordinary that the latitude of Prafum fhould coincide with Mofambique, and that two or three degrecs farther to the
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300 See Oforius, p. 52.
370 And the Pbenicians, if Sofala is Ophir.
37: Lib. i. c. }8

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372 Libya.
373 Page 125.

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fouth, the kingdom of. Benomotapa \({ }^{334}\) fhould occur, in which Zimbao, is fill the name of a tribe, or as the Portuguefe writers affirm, the court of the fovereign \({ }^{375}\).

It is by no means neceffary to affert, that Mofambique is identically Prafum, or the Zimbaos Agifymba, but the coincidence, of latitude led the Portuguefe alinof to a man to give credit to the one, and the coincidence of found \({ }^{336}\) has left a conftant belief of the other. The Portuguefe pilots were many of them well read in Ptolemy. It is from information of this fort that Di Barros maintains that Sofala is almoft furrounded by' a river iffoing'from a lake called Maravi, which the ancients fuppofed to be the origin of the Nite; a charge not very unjuft, if we confider that Ptolemy has

374 Benomotapa is celebrated by all the Portugucfe, as the fource from whence all the gold duft at Sofala, and on the coalt is acnoired, There is faid to be a gold mine in that lingdom called Manica, and others of filver, as Faria affirme, (vol. iii. p. 148.) and gold is alfo found in the ftreams which come down from the mountains. Thefe 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 thofe of Abyfinia is flill problenatical. 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 Quilimance at Pate and Ampaça, and the sfreat lake which all fpeak of with fo much uncertainty. We may fuppofe all thefe rivers which come to the fouth prodpcive of gold as well as the river of Berometapa. And as the kingdom of Abyflena in its more Hoprifhing flate certainly extended its influence
to Magadoxo, in latitude \(5^{\circ}\) north , fo may, we difcover the means by which, in all ages, the gold duft of the fouth found its way into that kingrom. 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 Abyfinia from the fouth was kuown both to the Greeks and Arabs, and muft apparentily have been the prin mary canfe of their voyage to the fouth, and pofitly of thofe performed by the Idumeans, Fhencians, and Solemon to Ophir, if Ophir and Sofala be the fame.
\({ }_{3}\) is Di Barros, in Raminio, p: \(26^{\circ} \mathrm{f}\), vol. i. Barbefa, ibid, vol. i. p. 288 . Marmiol, vol. iit who copies Di Barros.

376 D' A niville calls them Zimbas or Muzimbus, and feerins to think them the fame as the Gallas, who have been the pett of Abyfinia for many centuries patt. The lake here noticed the firlt intooduced. into a map cordpofed for Le Grande's edition of Lobo in s\%28.
brought the fource of that fream into \(12^{\circ} 30^{\prime} 0^{\prime \prime}\) fouth, though D: Barros himfelf is as bold in his affertion when he derives from the fame take \({ }^{377}\) the Zambezè, with all the ftreams of Cuamo, the Efpiritu Santo which falls into the foa below Cape Corrientes \({ }^{378}\), and another river which is to traverfe the whole continent into Congo.

At this river of Zambezè we have a right to confider the difcovery of Gama afcertained, as he had here united his circumnavigation with the route of Covilham; but we muft conduct him to Quiloa, in order to make him meet the limit of the Periplus at Rhaptum, and to Melinda, before he obtained a pilot to conduct him to the Indies.

It was not till the 24 th \(^{379}\) of February that the fleet was repaired and ready to fail; and it is remarkable that the people had fuffered much here from the fcurvy, notwithftanding the country is faid to. have abounded with fruits of various forts in abundance; the difeafe is imputed to the lownefs and humidity of the coalt, and the humanity of Gama is recordad as opening all his owrn ftores for the relief of the aflicted. Upon the refumption of his courfe he kept along the coaft for fix days, and upon the firf of March camie in fight of four iflands that lie off the port of Mofambique. It is upon the approach to this port that Caftaneda firt mentions boats furnifhed with fails; and no fooner did this fight meet the eyes of the navigators than Coello, running upalong fide of his commander, *

\footnotetext{
\({ }^{37}\) Marmol fpeaks of a Lake Zadañheres \({ }^{373}\) See Di Barros, in Ramufio, voi. i, which he confounds with the tifana or Dembea of Elabez, p : 356 , et feq.

375 See Di Barros, in Ramufic, vol. i,
p. 386 . et feq.
379 An. 1498.
}
cried out, "How fay you, fir, here is another kind of poople"," and fuch indeed they found them, for Mofambique was at this tinie under the government of Quiloa, the fovereign of which was maffer of the coanf from Sofala to Melinda \({ }^{\text {sse }}\); with mof of the inands in the peighbourhood. From the colour of the voyagers they were eafily minaken for Turks \({ }^{\text {s5 }}\), with whom the Moors were neceflarily acquainted in the Red Sea, and for this reafori, upon the firt interview every civility was imparted, and pilots granted at their tequef: With the difcovery of this miftake, and the treachery in confequence of it, we have no concern, but with the appearauces that evinced an Indian commerce Gama had every reafon to be gratified. The vefiels were fuch as traded along the coaf, large, but without decks", the feams. fewed with cayro, or cordage made of coco, and the timbers faftened with the fame without a nail throughout:. The fails were mats compofed of palm leaves; and many of the larget fort had clrarts \({ }^{382}\) and compaffes \({ }^{385}\). The Moors or the Red Sea and India seceived here the gold of Sofala in exchange for their conmodittes ; and the town, thotigh ineanty built, furnifhed aboud feciniens

\footnotetext{
- \({ }^{38 e}\) Mombara execpted \({ }_{2}\) which had rexoleed; the Latin work of Oforime but fuppofe he and Melinda was preparing for a revolt.. , might ufe aftrolaive; which is rendered quad-

 fambique knew that- they had come foura Arabick terni is afthaylab, evidently corrupted the Cape. It is much more probable thaterser Fuppofed them Turks from the Rod sen who had been down to soidr or has tionatriver accidentally to the font:


}
of pepper, ginger, cottons, filver rings, pearls, rubice, welvet, Ghki, and various other articles of an Indian trade.. The inhabitants were moftly Caffes, but the government was in the hands: of Moliamedfas froim Arabia, nnd as the conmander had, feveral who could fpeak Arabick on board, a commanication was readily opened; and intelligence foon obtained that the yoyage to Galicut was regularly performed; wide the diflate abont nine handred, leagues.
The fleet remained at Mofambique and in the neighbourhood till the 24 th of: March, and then made fath along the coaf "to the northward \({ }^{354}\) : I Hould have been: glad to " have" conducted Gamar to Quiloa, as I efteem it: the Rhapta of the Periplês; and In"could have: wified to have ended his navigation from Europe where, I teminated that of the Greeks from: the" Red Sea.; but partly from trichery and partly from aicident; he was caried pat Quiloa, and proceeded to Moinbaça; the fame 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 folendid than Mofambique. Inere likewife were found "all the commodities of India with the citron, lemon, and orange, the honfes built of ftone like thofe of Portugal, "and the inhabitants chiefy" Mohamedans, lixing with all the fplendour and luxury of the eato.

The fay of Gama at this place was onty tho days, when he proceeded to Melinda and carne to an anchor upon the \(x\) th of
\(3{ }^{1} 4\) It may not be inproperto notice that is thus in the Thames that we call Northe language of the coaft fyles the courfe to way finps, Danes; and Swedes, ealt country the northward geaft, and to the Cape wefl. It fhips,

March i498.n There is no harbour here but an open road \({ }^{38}\). the city, however; was fplendid and well built, with houles' of feveral fories, and the appearance of wealth throughout, evinced the extent of their commerce and their communication with India. Here though Gama was not without fuficion, he experienced every act offriendfhip and hofpitality; and this, becaufe Melinda was inelined to hofilities with Quiloa, 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 difovery was afcertained, and after having conducted him: within the boundary of the Greeks and Romans, the object for antroducing this nat:rative of his voyage is anfwered, It is but juftice, however, to notice, that he reached the long fought fhores of India; and wifited Calicut, the centre of Indian commeree, without: any pare ticular misfortunes, but fuch as are natural to a firl attempt. He returned to Lifbon in 1499; "where, he received every hom nour which a generous' fovereign and grateful nation. could betow.

He was again bonoured, with the command: of a fyudron in 1502, when the fyle of his commiffion was that of admiral and goveroor; and he returned \({ }^{366}\), a third time in, 1524 , under the reign of John IIn when he was raifed to the title of viceroy and count de Vidigueira. During this command he died at Cochin in IS25; after having the fatisfaction of living to fee the power of his country paramount in the feas of India. from Malarea to the Cane

\footnotetext{

}
of Good Hope. A power which the maintained for upwards of a century, and loft at laft by the lofs of thofe 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 fidden in the execution of jufice, but at the fame time intrepid, perfevering, patient in difficulties, fertile in expedients, and fuperior to all oppofition. No action can entitle the moft illuftrious to the character of great, more than the fortitude he difplayed 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 difcovery. To the virtues of a commander he added the religion of a Chriftian, and though the religion of his age was never without a tincture of chivalry and fupertition, in one fenfe at leaft his religion was pure. It was religion that fupported him under the perils he encountered, and a firm perinafion that it was the will of Providence that India fhould be difcovered. The confequence of his difcovery was the fubverfion of the Turkifh power, which at that time threatened all Europe with alarm. Thie eaf no longer paid tribute for her precious commodities, which paffed through the Turkifi provinces; the revenues of that empire were diminifhed; the Othmans cealed to be a terror to the wettern worid, and Europe \({ }^{387}\) has rilen 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 eat, but the finl retains Erafll, which wes the accident of her Oriental voyages, and

\footnotetext{
\({ }^{347}\) Such is the opinion both of Abie Ray- See in Mickle, p. 83. a citation from Faxia nal, Mickle, Dr. Campbell, Harris, Rc. \&c. to this effect.
}
whicir has prolonged her exiftence as a nation to the prefent Hatit.

The reader will pardon this digreffion in favour of a man whom no hiftoriai ever contemplated without admiration, but if the hiftory of the man does not attach to the purpofe of the pre: fent work, the account of his voyage is mae of its conflituent parts. Our defign has been to fhew 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 rond the Cape. I will not fay it was impofible, but I think it inpoffible to have been once performed and never profecuted; I think it impoffble that it fhould have food upon the pige of hiftory as an infulated fact, through a lapfe of one and twenty centuries, without imitian tien or repetition of the experiment.
XXVIII. IT remains ftill to thew the relative fituation of the Arabs on this coaft of Africa, fuch as the Greeks and Romans lefr them, and fuch as the Portuguefe found them upon their arrival in the Eaftern Ocean. The Periplus mentions that the Arabs of Rhapta were fubject to the fovereign of Maphartis, and Maphartis itfelf was one of the dependencies of Sahea or Yemen. They employed the veffels fewed with coco cordage, from whence the name of the place, and they traded to India; Arabia, the Red Sea, and Egypt. Arabs of the hame defription Gama found here after the expiration of thirteen centuries, the fame veflels on the coaft, \(\div\)
and the fame foreign trade, One circumfance indeed was chifferent, the religion of Mahomet had at the fame time introduced fuperior vigour, and a more extenfive commerce, engendered a hatred to the Chriftian name; which excited that malice and treachery which Gama experienced, and which, perhaps, without: a difference of faith, the rivalthip in commerce muft neceffarily have produced.

Of thele Arabs there were two diftinet parties, one called Zaydes or Emozaides, who were the firft fetlers upon record; and the
 Emozaides were hereticks of the fect of Ali, they came from Yemen, and feem, to have occupied the coant of Africa, after the time of Mahomet, in the fame manmer as their Heathen brethren had fetled there in the age of the Periplusp" The tribe from Baca were Sonnites or orthodox, who hate the Shites worfe than Chriftians; they had feized firt upon Quiloa, and had extende their power for two hundred miles along the coaft, but from their interaal diffenfions: were "decining in power when the Portuguele firlt arrived in the Indian Ocean, Upon the introduction of this tribe from Baca \({ }^{\text {sso }}\); the Emozaides retired inland and became Bedouins, \({ }^{69}\), they intermaried with the natives, and flill exift as black Arabs, litule difinguifhed from the Caffres who are found both on the conthent and in the illands \({ }^{39}\), which lie in the Mofambique chaniol, and even in che inand of Madagafear.

\footnotetext{
\({ }^{366}\) Di Barros; in Ramufio, vola io p. 386 . to be of the time Beni Houle; in Omata.
eet ferf." . . '. " . ". . , "390 Wandering tribes Qhat live in tents.
3s9 If we nay juadge from Niebulr they ought, 392 The king of Tohana is perhaps of this
}

The whole coaft below Mombaça was under the power of thefe Sonnites from Baca; but Mombaça had revolted, was independerit, and had a Govereign of its own, who was a Sonnite; "while Brava and Magadoxo were fyled republicks,' where the power was in the hands of twelve \({ }^{p 2}\) principal famites forming an aritocracy; pert hapis as confpictous on that coaft as Venice was in the Hadriatick.
This thate of the country is perfecty analogois to the defripion of it in the Periplus; every city, fays that journal, was a feparate government, aded every government had its independent chicfe Such they were in that age, and fuch they might hate continued if European power had sot atifen, which overwhelmed them all in a eriod of lefs than twenty years, Sofala, Mofambique, Quiloa, Angoza, Ocha, Pate, Mombaza, Brava, and the Zanguebar Mands,
caf, half Arab and half Negro, as Sir William fones fays the family came from the main, The proper name is Hinzuan, which becane Anjuan; and Anjoanè cafly made Johanta by an Englif fcaman. It is onic of the Comura Ines between Madagatear and the coutinent; and Comora fill preferves the name of Comr the Arabick narize of Madagafcar, the Inand of the Mrion.
393. The love of independence is the ruling principle in the mind of an Arab, and'a patriarchal fovereignty is the only one to which Ie can naturally fubmit.' This it is which driver fo many petty trites into the deferts, which they occupy from Refopotamia to the frontiers of Moroccoz and from the coalts of the Perfian Gulph to Mofambique. The refidence in citics is unamuial to them, and though they do occupy places plich they have
conguered, illl every city mut have its chicf; and every chicf fiuds a party within his wails whes is hotile to his gorcriment. Niebuh hes paines this ipirit of che people mot and mirably throughout his work.. But the Man: homédan religion has alfo produced an ariso." cratick principle, fubfilting unofer all the def potifin of the eatt: The Glemas, uinder che Thukin government, are an arittocracy berivecn the monarch and the people; and whow. ever is accuainted witi Oriertal manncrs, , oows that theie were families which preferved a fort ofruling power in Samarkand, Bagdat, Bafra; 2nd all the principal cities of the eat : Such a junction of families might well exift at Brava and Magadoso, when the Portuguefe frit: vifited the coaft ; and any government where there was ino oftemanle chict would fuggett tọ thear the dea of a republick.
all fubmitted to Diego Almeida; and Triftan d'Acugura before the year 1508. Melinda, which had always been friendly, lof all her importance, and Magadoxo only refifted with effect; but whether from the bravery of the people, or becaufe it lay too much to the north to be of importance, is hard to determine. Had they not been conquered they muft have funk in their importance from the natural courfe of events; the finews of their commerce were cut, and their fhips could not fail without a Portuguefe pafs. The produce indeed of the coaft itfelf would ftill have maintained thefe cities from utter decadence, and brought foreigners to their ports; but the power of the Portuguefe 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 thefe conquefts which do fo much credit to their valour, and fo little'to their policy, Mofambigue is the only poffeffion which has furvived the wreck of their empire.; and this port is faid Rill to be a profitable fettlement, and to preferve an influence over the other ftates, which have reverted again into the power of the Arabs; among thefe the Imam of Oman is the chief, and Quiloa and Zanguebar are governed by Sheiks of his appointment \({ }^{393}\).

It was my intention to have clofed this account of the coaft, 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 Portuguefe; but the whole of this fubject has been to ably difcufied by the writers of the \(M\). Univerfal Hiftory, in their twelfth volume, and fopmuch more at large than would have been fuitable to the nature of the

\footnotetext{
\({ }^{293}\) Niebuhr, vol. ii. p. 146. Arabick, Tr. ed.
}
prefent: work, that the labout is not neceflarys: Some particulars I had collected from Reffende's MS. in the Britifh Mufém, with. which they were not acquainted, that might have been acceptable; but in general, the authorities they have followed are fo genuine, and their own oblervations fo juit, as to admit of little farther endargement upon the fubject.

Here, therefore, I clofe the Firt Part of my defign, which was to examine the navigation of the ancients on the coalt of Africa, from their frift entrance tinto the Red Sea, to the termination of their progrefs to the fouth; and to connect their difcoveries with thife of the moderns, by fixing on the voyage of Gama as the point of union. The Second Pare will. contain two books alloted to Arabia and India, a fubject lefs obfcure, but fill curtous rather than anufings "The matetials for the whole are collected, and will be publifted as foo as they can be reduced into form; but whether that period will be mort or diftant 1 cannot prefume to calculate. I am fully fenfibie that want of leifure ought to be confidered rather as a bar to publication altogether, than pleaded as an excufe for publifing a work incomplete or incorrect. But if time had been taken to complete the whole, it inght never bave been brought to the prefs; and if the part now edited be incorrect, it is not from negligence, or from mifapplication of fuch leifure as \(I\) have, but from want of powers to perfect it to my own fatisfaction, It remains with the
public to decide whether it will be better that the Second Part fhould be publifhed or fuppreffed.

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 difcovery-towards the fourh. I could. have wifhed to have feen his work fooner, that I might have given it the confideration it deferves; or not to have feen it at all, that both our opinions might have been left undifputed, for the judgment of the publick; but I now cannot help obferving, 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, ftill I cannot but açnowledge his mafterly and fcientifick poffeffion of his fubject, as well as the great perfeverance of his inveltigation; and if \(I\) differ in opinion from fuch a writer, I fill pay refpect 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 mult acknowledge that feven mouths of rivers, anfwering to the laft divifion 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 quetion; for fuppofing the Pyralaan Inands to be defined by the freams of that river, as it divides upon its approach to the feh, the Periplus is in perfect harmony with the accounts of the Portuguefe in general, and Reffende in particular; and if their authority; is infufficient, I know of no better to which an appeal can be made.

\section*{A P P EN DIX}

\section*{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 Infcription found in Abyfinia by Cofmas Indicopleuftes, a Monk of the fixth Century:
III. An Inquiry into the corrupt Readiag of the Manufript, in regard to the Word, 'Dustsunstop
IV. Tue Form of the habitable World as imagined by Pomponius Nela; Cofinas; and Al Edrifi.
N. B. As thefe feveral Partictlars are defgned for the wobole Work when completed; they commence argain witts page r , and will be accompanied by fome other Difquiftions on the Winds and Monfoons, on the Site of Meroè; and on the Limit of ancient Difcovery towards the Eaf, with forther Inquiries, if autbentick Materials can be obtained. The Second Part of this' Worte will contain the Arabian and Eaf. Indian Navigation of the Periplus, with the Pages. numbered in order from Part the Firft.

\title{
Articles of Commerce mentioned in the Periplus Maris
} Erythrei affiged to Arrian.

\section*{A}
n. 'Abo \({ }^{\prime}\) ddi. Abolld.

Ir this term be Greek, it is remarkable that it fhould not occur in any Greek Lexicon, and if it is Latin (as apparenely it is), it is equally renarkable that a Greek merchiant of Alexandia, fuch as the author probably was, hould 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 exprefing the actual garment which was neither ufed by, or formerly knowns to the Greeks. The Roman Abolla was a military cloke \({ }^{2}\), perhaps not unike our watch cloke : \(\because\) And the adoption of the word is not mbre firange than the ufage of the Enghin in adopting the French Surtout; or the French adopting the Englith Redjangote (Riding Coat).

\footnotetext{
\({ }^{2}\) The word Abolla is not in Du Cange.
a It feems worn as an outer military cloke by offecre aud men of rank. Ptolemy, fon of Juba king of Mamitamia, grandfon of \(M\). Antony by Selenè the daughter or Cleopátra, was cilled by Caligula, who was a great grand-
}
fon of Antomy, non alịh de caufâ guam" quod edente fe munis, ingreffum \{pectacula converliffe oculos hominnm falgore purpurex abollae animadvertit. Suet Calig. c. 35 . It was likewife a garb of the Philofophers, audi facinus majoris Abolla. Juvenal.

Single cloths dyed and imitating fome of a fuperior or different quality. But fee Salmaf. ad Vopifcum:
"Aboios, according to Salmafius (Plin. Exerciti 1062 ) are fingle cloths, the fame as \(\dot{\alpha} \pi \lambda 0_{0}^{\prime} \delta_{\varepsilon}\), in oppofition to \(\delta_{\iota} \pi \lambda \dot{o}^{\prime} \delta_{\varepsilon \xi}\), 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 "AGono may be literally rendered winbot; 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 fou had perhaps brought home a raiment of needle work, of needle work on both fides, which is apparently correfpondent to the tunick; which Ulyffes defcribes to Penelopé (Od. Mib . T . 230.). If this interpretation, therefore, noukd be admiffle, "Abcion
 expres, that they were of an inferior quality. But fee the term Jiñóáuaros, Diog Laertius in Diogene, p. 350 . Horace \(\therefore\) Duplici panno patientia velat, And the addrefs of Plato "to Aritippas in
 gaieos. " You are the only Philofopher who cantaffume with equal "propriety the drefs of a gentleman ( \(\chi \lambda\) apu \(\delta \delta \alpha\) ), or the ordinary "garb ( \(\rho^{\prime} x c_{0}\) ) of a cynick""

\section*{3. 'A \(\delta_{\alpha}^{\prime} \neq \alpha\) ćs Diamond.}

The ancients certainly apply this word to our modern gem the diamond, but ufe it in a larger fenfe as we fill ufe atamant; applied

\section*{A.PPENDIX.}
to other hard fubftances. But in the only paflage where it occurs in the Periplûs, it is mentioned on a coalt where diamonds very probably wrere to be purchafed, and is joined with the Hyacinth or Jacinth, and other tranfarent ftones.
4. A入ón Aloe.

There are two forts of Aloe, one a bitter cathartick, and another an aromatick, by fome fuppofed to be the fandal-mood. See Salm. Plin. Ex. 10,56. It is probably ufed by the author of the Periplûs in the former fenfe, as being mentioned on the coaft of Oman in Arabia, where the Succotrine Aloe is naturally imported, as the inand Sosotra itielf was under the power of the Arabs on the main, being fibject to Elazus king of Sabbatha; in the neighbourhood of Onat.
5. Aydéapra 5. Images.

Thefe are mentioned as imported into Oman in Arabia, but whether as merely ornamental, or objects of fupentition, dees not appear.':

Thefe works in filver do not appear to be the beautiful produce of Greek artifs, but veffels of plate adapted to the market." By the fiequent mention of thefe articles they mutt have formed a confider. able branch of commerce.

\section*{A PPENDIX.}


Drugs in general are comprehended under this term (Sal, Plin. EX, p. 1049, 1050).
9. 'A \(\sigma\) úq. ASpecites of Cinnamon. See Kaoria.

\section*{B}

\section*{BDĚ \(\lambda \lambda \alpha\). Bdellium.}

An Aromatick gum, fuppofed to be mported from Affica, but now feldom ufed \({ }^{\text {i. }}\) Salmafus. \({ }^{4}\) defribes it as a pellucid exudation from the tre fo called, not quite clear, of a waxy fubtarice, and eafily melted, called by the Portuguefe anime ; there are three forts, Arabic, Petraan, and Bactriap. It was imported, according to the Periplû̀, from Binnagara, or Minnagara [Bekkef,] in Scindi, and from Barygaza [Baroach, ] in Guzerat:

The tha Bhedolahb of fcripture, Gen. in no. Num. xi. 7 rendered Bdelium, is by the Rabbis rendered Chryital, and has nothing in common with the Bdellium of the Perplets but its trantparency. The word Bdellium feems a diminutive of the Bdella ufed by our author. Pliny, be xit.c. 9 .
There are fill found three forts, two African, rather of dark brown hue, and one Afatick, anfwering the defriptions of Salmafifus, generally brought to England among pancels of mayrth, Thete are fpecimens of the African fort in the coliection of Dr , Burgefs.

\footnotetext{
i Chambers in vece. , © Plin. Exarcit. phi! 50
}

\section*{\(\Gamma\)}
 Zigeer in Perfick fignifies fmall.

\section*{\(\Delta\)}

Kográ and regoraćr, according to Salmafius \({ }^{5}\), from Helychius, fignifies the fteps of a ladder, or in another fenfe, the cornice of a wall, or the battlements. Salmafius derives the word from \(\boldsymbol{\varepsilon e}\) iǵw, to thave, and interprets rógror, locks of hair. Hence cloths, dxecoorix, he fays, are thofe which have a fringe knotted or twifted.

 of Hefychius, the connice of the wall, or as it may be rendered the Aep. of the parapet, a rim or line running round below the battlements. Not differing, perhaps, from the ufage of the word as ufed \(\equiv 35\), where Homer fays, the fhips were too numerous to be drawn up on
 them in lines one behind another like the Ateps of a ladder. Agreeable to the other explanation of Hefychius, or as Appllonius renders


We may therefore conclude, that we cannot err much in rendering the "Aixgoorio of the Periplus, either cloths fringed, with Salmafius,

\footnotetext{
\({ }^{3}\) Plin. Exercit. p. \(762 . \quad 6\) See Lennep in voce.
7 See Apolon. Lexicon in voce.
}
or friped with Apollonius. So Virgil, virgatis lucent fagulis. The

 rio is the Latin word Lintea.
 \(\therefore\) nation nearly 8a. Engli/b.
It appears by the Periplûs, that this coin was carried into Abyffinia for the fake of commerce with frangers, and that both gold and filver Denarii were exchanged on the coaft of Malabar againft the fecie of the country with advantage to the merchant.

Are joined in the Periplûs with Kalla, and are fuppofed to be injferior fpecies of the cinnamon. See Ramulio, in his difcourfe on the voyage of Nearchus, and Salmaf ide Homonymiis Hyles Iatrices, c: xcii. ci xciii, a work referred to by Salmafius himfelf, but I have not feenit.

Slaves of a better fort and for the Egyptian market.

\section*{E}
"Enasov. Oill of Olives.

'Evóiso. Fragrant foties or gims.

\footnotetext{
- The gold Denarius, according to Arburth \(\because\) the age of Nero. not was the \(45^{\text {th }}\) part of a pound of gold in 9 Plin. Excrcit. p. tons.
}
A.PPENDIX.

\section*{\(\mathbb{Z}\)}

\section*{Zanvas oxatais:}

Girdles or purfes wrought or embroidered. A great commerce throughout the eaft is itill carried on in fafhes, ornamented with every fort of device, and, wrought up with great expence. Sintwràs does not occur in the lexicons, but probably means Jaded of different colours.

\section*{Ztrjutbes. Ginger.}

Not mentioned in che Periplus, but by Salmafius. \({ }^{\text {to }}\), who fays the ancients knew little of it, and believed it to be the root of the pepper plant.

\section*{H}
"Hutovos vitayos. "Meles for the /adalle.

\section*{©}


\section*{I}

For the Barbarine \({ }^{\text {tr }}\) market, undrefed and of Egyptian manufaci. ture. The Barbarines are the ancient Troglodyte fhepherds of

No Plin. Exarcit. p. 1070.
\({ }^{2}\). The wef coaft of thic Culph cof Arabia.
b
Upper

Upper Egypt, Nubia, and Ethiopia, very graphically traced and diftinguilhed by Bruce.

For the Barbarine market, dreffed, and dyed of various colours.


Made up, or coating for the Arabian markets.
\[
\text { In Xeqes } \delta \omega \tau o s
\]

With fleeres reaching to the writ

3. Exats ad \(^{\text {rioge }}\)

Wrought with figures. From the Latin Scutum, Scutulatus the Sgare being in the form of a mield. A dappled grey horfe tha thum called Scutulatus:
4. Atáxpuros. Slzot reith Goldo

Of great prices.
©. NóOos.
In imitation of a Better comriodityo,
-7. Megsoátegos.
Of a better quality or ingreat quantity:
8: Mayroiosan.
8. П1 1 rroios.

Of all forts.

Of thicker woof, or larger woof than waty.
\[
\text { 'I } \pi \pi \text { or: Hurfes: }
\]

As prefents, and as imports into Arabia.

\section*{K}

Kágrapoc̣. Kankamus-Gum Lack;
According to Scaliger ; and Diofcorides calls it a guna. ©ut Sali malius rather inclines to think it a drug like myrha Lack was ufed as a purple or blue dye by the Indigo dyers. Indiucoiqois. Salm mas. Plin. Exercit. x448. 1522 . Plin. xii, 20. See Pomet's Hifo tory of Drugs, b. viii. p. 199, who fays gum of font colours was found in one lump. He does not hold it to be Gum Lack; but that it has a fmell like it ; it is found in Africa, Brafil, and Saint Chrifopher's. Pomet's Specinen was from the Weft Indies.

According to the Periplus it was a coin of this lname current in Bengal, and that the metal was collected from a mine in the neigh bourhood. Stuckius fays, a coin called Kalais is fill current in Berigal, on what authority does not appear: Paopino notices the word, but I cannot recal the paffage to my memory

Kagncíros. Karpafus-Fine Maflins.
Oppofed to ordinary cottons. It is remarkable that the native Shanfreet term is Karpafi, as appears by Sir William Jones's catalogue. Afiat. Ref. vol. iv. p. 231. Calcutta edition. But how this word found its way into Italy, and became the Latin Garbafus (fine linen) is furprizing, when it is not found in the Greek language. The Kaçacouion \(\lambda_{\text {ínov }}\) of Paufanias (in Atticis), of which the wick was formed for the lamp of Pallas, is Afbeftos, fo. called from Karpafos: a city of Crete. Salm. Pl. Exercit. p. 178.

\section*{\(\mathrm{K} \alpha \sigma \sigma \mathrm{i}_{\mathrm{x}}\). Cafia.}

This fpice is mentioned frequently in the Periplus, and with: various additions, intended to fpecify the different forts, properties, or appearances of the commodity. It is a fpecies of cinnamon, and manifefly the fame as what we call cinnamon at this day; but different from that of the Grecks and Romans, which was not a bark, nor rolled up into pipes like ours. 'Their's was the tender thoot of the fame plant, and of much higher value, fold at Rome in the proportion of a thoufand denarii " to fifty; it was fourd only in the poffeffion of Emperors and Kings ; and by them it was diftributed in prefents to favourites, upon folemn occafions, embafies, \&c. This fort we muft fift confider, becaufe they themfelves applied the name improperly, having it derived by their own account from the Phenicians \({ }^{13}\), and giving it to the farne production, though in a difierent form and appearance from that by which it is known to us. .

The kinnamomum of the Greeks and Romans was neceffarily srived from the Phenician ' \({ }^{4}\), becaufe the merchants of that country rft brought it into Greece. The Greeks themfelves had no direct onmunication with the cait, and whether this fpice was brought into erfia \({ }^{2 s}\) by means of the northern caravans, or by fea into Arabia, à intermediate carriess between either country and Cirecee were of ourfe Phenicians. in will therefore be no difficult matter to prove: hat the Phenician term expreffes the cimnamon we have, and not hat indicated by the Greeks and Romans.' The term in all thefe anguages fignifies a pipe, for the Hebrew He Kheneh, is the Latin Janna; and Syrinx, Fiftula, Cannella, and Cannelle, convey the: ance idea in Greek, Latin, Italian, and French.' The Hebrew erm occurs in Exodus xxx. 23, 24, joined with Cafia, as it is thoole univerfally in the writings of the Greeks and Romans. It
 mon Befem, the fweet or fweet fented pipe, and the word enterest Cauia by our tranfiators \({ }^{47}\) is n7p, Khiddab, from Khadi to flit or divide longways.: Thefe two terms marle the princimat difinctions of this fpiee in all thefe languages, as Khinemon Befemr, Hebrew; Cafia Syrinx, Greek; Cafia Fifula's, Latin; Cannelle,

mies from Diodorus, Rib. i. xci tom. i. p. ioz.. .Larcher, tom. ii. P. 3 浬.
is The Cafia pillatia of the moderns is a
 which comes from the Levan!, Erryt, Bralit, and the Analles, and is a corruption from Acacia. Salm. Plin.' Eix. p: 540. Certe Cafz nomen pro ẹa fodcie qua folvit alvun ex: Acacie factum duamwis dyerium fit gena, 1 к. p. 1056. This cormption jo not of very :nom dern date, for Salmafur wids, at mirum lit ante hos trecentos at amplius aunos, Cafian

Eiftubar:

Cainelle, French; Khiddah, Hebrew; Xylo-Cafiaid ; Gaieck; Calia Lignea, Latin.

Whether the Greeks and Latins derive their term from the Hebrew khine-mon \({ }^{20}\), or from the compound kheneh-amonum, is not fo eafy to determine, for amomum is a general term \({ }^{2 x}\), for any: drug or fice, and kin-amomum in this form would be again the fipice-canna; the cafia fiftula under another defcription. But that the cafia fifula and the cafia ligriea are markeḍ as the two leading difinct frecies, 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 Cerlon, their ufe of the word was improper. That this was the cafe there is reaton to think, but that there was fome obfcurity, or fluctuation in their ufage is certain alfo.

Salmafius \({ }^{22}\) quotes Galen to prove that the plant itfelf was brought to the emperor Marcus Aurelius, from Barbanike \({ }^{25}\), in a cafe feven Fiftulam Latinis dicam, eam qux purgandi, but he allows there is no fuch verbin Hebrews rim habet. See alfo Ramufio, xol. i, p, 282. 'I cannot help thinking that
og This fpecies is difincty marked in the Toman Lav de publicanis, leg. xvi. D. CafiaSyrins, Xylo-Cafia. Salm. ros5, id. in Canticis Salomonis Nardus, Crocus, Tiftula cinnamomum. It is called Exixporesch, Hard Cafia, in the Periplus.
\({ }^{20}\) ypyp is from injp, a reed, canna, and the termination doubtful, but probably from佨 Mity, peculiar. It is in this fenfe that Tity; manna fignifes the food from Heaven. The pecsilar food or bread. And hence THin? the peculiar canna, by way of 'pecminence. Parkhurf derives it not frominip, ennoa, but from ©ip; bhanam, to fmell hrong,
 "befom, have the Came roct:. The fveet khenne, the fweet khinnemon. Notwithfanding khenrich befem is rendered calami odoriferi, the fivect calamus, it is certainly not technically the calamus aromaticus.
- 25 'Salm 40 .
\({ }^{=1}\) Plin. Ex. p. 1304 . Galen de Antidotis, lib. i.
\({ }^{23}\) Barbarikè is perhaps not a proper name, but the port frequented by the: Barbars of Adel or Mofyllon. . We is the mart in scindi, but vibether Patala or Minnagara, is diffcult to determine.
feet Song. Galen faw this, and there were other cales of a fmaller fice, containing fpecimens of an inferior fort. This, therefore, muff be in a dry flate; but this he lays was the true cinnanon. Undoubtedly it was, for the plant itcelf, and the ficie, as we have it, in its ufual form, have this difference and no more. But Galen fays, in another paffage \({ }^{24}\), that cafia and cinamon are fo much alike that it is not an eafy matter to difinguifa one from the other: And Diofcorides writes, "Cafta grows in Arabia; the beft fort is: "red, of a fine colour, almof approaching to coral, ftrait, long, "r and pipy, it bites upon the palate with a light fenfation of heat, " and the beft fort is that called Zagir, with a feent like a rofe." This is manifefly the cingamon we hase at this day; but he adds, ". cinnamon has many names, from the difereat places where it [is: th procured or] grows. But the beet fort ts that which is like the " cafia of Mofyllon, and this cinaamon is called htofyllitick, as " well as the cafia.". This therefore is onty a different fort of the came fice, bat it does not grow either in Arabiacry Mofyllon, it: took its name from either country as procired in the marts of ether. This traffck is explained in the Peripias, but Diofcorides: was unacquainted with it. The defcription \({ }^{35}\) he gives of this cinnamon is, "That when frefh, and inits greateft perfection, it is of 2 : "dayk colour, fomething between the colour of wine and [dark] "s' afh; like a frall twig or fpray full of knots, and very odoriferous." This is manifenty not our cinnamon, but the fame as Galen's, the tender fhoot and not the bark. It is worth remarking, that Diof corides: lived in the reign of Nero \({ }^{26}\), and if the trine fouree of cinnamon was:

\footnotetext{
\({ }^{4}\) Sec Ramufio, wol, i. p. 282. The whole p. 348: Fe is equally indebted to Silinaliua: of this is from Remafio.:-
as myfelf.
\({ }^{35}\) : \$ce Larchax's vhaleDiffertation, tom, iiio.
}
then jut beginning to be known by means of the navigation detailed in the Periplus, this knowledge had not yet reached Afla: Minur or Rome. Pliny who lived a few years later had juf arived at this information, for he fays exprefly, Mofyllon was the port to which: cinnamon was broughi \({ }^{25}\), and conifequently: the port where it was procured by the Greeks from Egypt, and through Egypt conreyed to Rome. It had long been procured there, and long obtained the name of Mofyllitick, but it was now known not to be native, but imported at that place.

The trade to Mofyllon was opened by the Piolemies; fill before the exifence of a Grecian power in Egynt, the Grecks had probably Iitle knowledge of it, bat from the importation of it by the Phenicians \({ }^{\prime}\) ' and the Phencians received it, either by land carriage from the Jdumeans of Arabia, or when they wavigted the RedSea themfelves with the Allets of Solomon, they obtained it immediately from Sabêa perhaps alfo, if Ophiris Sofala on the coaft of Africa, they found it either at that port, or at the others; which the Greeks afterwards frequented. Thefe lay chiefly in Barbaria, (the lingdom. of Adel, comprehending the ports of Mofyllon, Malao, and Mun'dus, where it was poffibly always to be nuet with. This commerce indeed is at beit only conjetural, feither could it be of long duration, as it ended with the reign of Somon, and was never refumed; but that the Phenicians had a fettled intercourf with Sabea we learn incontrovertibly from Ezekiel \({ }^{* y}\), and that Sabeat was the centre of Oriental commerce, is proved in our account of the Periplitus.

\footnotetext{
if Diofcorides was á native of Anizzba, \({ }^{23}\) Portus Mofylites quo cinnamomum. Guf wherher lie wrote there or "at Rome, I "xevethenr. Litb. vin "c, 2g." have not been aule to difcosin:

}

It is this circumftance that induced all the eanly writers to impure the produce of Iadia to the foil of Arabia; an efror which comnenced with the frit hiforians extant, and which exded in hiftory Will the age of Pliny, and in poetry almot to the prefent bour. Fable is the legitimate progeny of tgorance; we are not to wonder therefore when we read in Herodotus \({ }^{3,}\), that caflia grew in Arabia, but that cinmanon was brought thither by birds from che country where Bacchus was born, that is India. . The term ufed by Herodotus indicates the cinnamon we now have, for it fignifies the peel, hull; or rind \({ }^{33}\), of a plant, and evidently points out the bark under which form we fill receive this fice. The error of Herodotus is repeated by Theoptiraftus, who affigas both cafia and cinnamon to Arabia \({ }^{32}\); this intelligence I receive from Bochart, and I am obliged to him alfo for a very curious citation from Uranius, in Stephanus de Urbibus," who fays, the conntry of the Abafenes froduces inymr, aromatick gums, or odours, frankincenfe, and the bark [of cinnamon \(]^{33}\). This paffage is valuable as the firft inftance extant in which the name df Abyfinians is mentioned. But it is not to be depended on, unlefs it can be referred to the conquefts of that nation in Arabia, for thefe Abafeni 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 fices in general, and cinnamon in particular,
\({ }^{36}\) Litai iii. p. 25z. ed. Weft. and p. 250 , Jones, Af. Ref. iv, dió sis.
 which guard the frankincenfe.
 and hence the dry hull, pech or fhell of a plant or fruit.
\({ }^{32}\) Bochart, vol. i., p. 105. Bir William cotton.
fill that they found their way into Egypt, Paieftine, Greece, andi ail- the councies bordering on the Mediterrancan, in the earieit: ages, is a facs. This admits of proof from the thirtieth chapter of Exodus, and we have traced the courfe of their introduction in the preliminary difquitions of the fre book.

We may now; therefore, proceed to examine the warious forts of this fice, mentioned in the Peripists; which amount to ten; and very remakable is is that the modern enumeration of profeffor Thunberg dhould comprehend juft as many fecies: Not that it is to be fuppored the fecies correfpond; but the coincidence of number is extraordinary. It is vorthy of notice alfo, that cinnanion is a term never ufed in the Periplûs, the merchant dealt only in cafia, cinnamon was a gift for princes; there is even in this minute cixcumfance a prefumption in favour of his veracity, not to be paled without obfervation.

\section*{- His ten, forts are,}

\section*{1. Mounhursoǹ Mofyllitich.}

So called from the pon Mofyllon, where it was obtained by the Greeks from Egypt; and whither they always reforted from their fint paming the Strairs of Bab-elMandeb. It ras the cafanfula, the fame as we now, have from Ceylon, wod imported at Mofyllon. directly from Inda, orfom the Arabiarimato on the ocean, which. were rivals of the Sabeans. It is mentioned by feveral authors as the beft fort, or inferior only to Zigeir, and therefore could not be native \(s\) there is indeed cinnamon on the conf of Africa, but it is
\(\operatorname{hard}_{x}\)
hard, woody \({ }^{34}\), and of little flavour. The regio cinnamomifera of rtolemy, bears no other fort but; this; he places this tratt at the boundary of his knowledge, that is, between Melinda and Mofanobique, 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 fyice from India; the traders who found it there, might fuppofe it native, in the fame manner as the early writers feeak of the Mofyllitick, and which (as has been already noticed, Play frif mentions as imported. The Mofyllitick feecies 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 Epi-s phanes \({ }^{35}\) carried a few boxes of it in a triumphal proceflion; and Seleucus Callinicus prefented two mine of this fpecies, 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 coaf of Malabar; from the coaft of Malabar is foand its way to Africa and Arabia; but when the Dutch were maters of Cochin \({ }^{36}\), they deftroyed all the plants on the coaft, in order to fecure the monopoly to Ceylon; and noge is now met with on the coaft, but an inferior wild fort, ufed by the natives, and brought fometimes to Europe for the purpofe of adulteration.

\footnotetext{
\({ }^{34}\) Seven different forts Oriental, and two. 36 The Dutch arc accufed of this by their American, I have feen in the collection of Dr: Burgefs; and an African fecies which is not a bark, but a mere flick; with little Havour. It anfwers well to the character' of nangna rivals, as well as diminifhiag the growth of nutwiegs; \&e. in the Molucea illands. But I oblerwe, in the account of Hugh Boyd's. crabaffy to Ceylon(Ind, Annual Regiter, I799), an aflertions that the trate cirmamori pever
\(\therefore\) Athenaus, lib.v. p. 195. lib. ix. p. 403. . grew any where but in Ceylon.
}

This fort is noticed and defribed by Dioforides, as already mentioned, and to his defcription 1 can only add; that Zigeir, In Perfankand Arabick, as am informed, Vignifise finall \({ }^{37}\). The malle bank muf of courfe be foom the maller and tenderer foots; which is till efteened the beft the hatder and thacker bakis cut and made to roftom mitation of this, but is ifenor, though from The fame planc This at leat is foppofed, but do not fóak from authority.

\section*{}

This term, if not Oriental, is from the Greek aounnos afybetos. fignifying cheap or ordinary; but we do not find afyphe ufed in this. manner in other authors; it may be an Alexandtian corruption of the fanguage, or may be the abberation of a mechant in his invoice
4."Apos, Aroma.

Aroma the general name for ony fweet-fented drug but is twice inferted in a lif of caflas, and is the refore probably a deecies as well as the others It would antimate an aromatick imell or flavour, and poflibly one fupenton quatity It is remakable that Hores ules the lame term of fwectrented cimamon:
5. Mázx

A fecolies unghown:

\footnotetext{
\({ }^{37}\) I doubt this relation the froe timd I. whether the Greek term cal̃a be nota corrupu: notice it \(;\) but an inquiny mightall be made tion of gizi.
}

> 6. Moxe

\section*{6. Motw: Moto}

A fpecies unknown.

\section*{7. Eir \(\begin{aligned} \text { ygotepà. Sclerotera. }\end{aligned}\)}

From the Greek Exhmos, hard. This is a term which occurs Sequently, and perhaps diftinguifes the cafia lignea (wood cinnat, mon), from the cafia fifula, (cannelle or pipe cinnanon, it may, however, fignify only a hard and inferior fort in oppoficion to brittlenefs, which is one of the characters of the fuperior fpecies.

All unknown. 第保 Salmafius and other commentators agree in fuppofing them all to be fecies of the fame fice.

Thefa are the ten forts enumerated in the Periplus \({ }^{3 \pi}\). Profeffor Thunberg, who vifted Ceylon in his voyage from Batavia, reckons teri forts likewife. Four of nearly equal value and excellence, three that are found only in the interior above the Chants \({ }^{39}\), in the government of the king of Candi; and three which are not worth gathering. The mof remarkble which he mentions are:

The rafe \({ }^{+0}\) or penni-curundu, honey cinnamon, and capuru curundu, or camphor cinnamon, from the root ar which camphor is difilled, this laft is found only in the interior The cinnamon for the European market was collected in the woods by the natives

\footnotetext{
3: Two other forts may be collected from coaft is a level, the interior is high and table Galeip ; Arebo, and Daphaite. Larcher, He- land. All above the mountains is ftill ponfoffed rod vol iii, n. \(345 . \quad\) by the king of Cand: ; tire Dutch had, and ". \(3{ }^{\prime}\) I we the term impropenty, but Ceylon. Englifh bave, oniy the coaft. patakes of the natire of the continent, the . "O. Sce I Kox's Hifory of Ceylon, p. 16.
}
employed in the Dutch fervice, but has fince been planted on the fandy downs on the coaft there plantations, befides their con' venience, are fo thiying, that the practice is likely to be continued. Can I conclude this account without obferying that this rich and valuable illand is now in the poffenion of the Eaglif, and whout a prayer that the commerce maybe conducled on more liberal principtes, and the natives treated more generoully by them than by: their predeceffors. The knowledge which the ancients had of this inand will be treated at large in the Second Part of the Periplus,", and it is to be hoped that the prefent governour Frederick North, whofe mind is fored with ancient knowledge, and thofe atention is alive to modern information; will communicate his xefearches to the publick.

I have only to add, that the Shankreet names of this fice are favernaca and ourana; as I learn from the Afiatick Refearches, vol; iv: p. 235 . and that Salmafins mentions falihaca as the Arabick appellation, which he denives from the Greek Zuxum, lignea, or woody; (p. 3o6.) but which, if I did not pay geat refpect to his autherity, I hould rather derive from Salike the Greek name of the ifland in the age of Polemy. I have now only to requeft that this detail; too prolix for the work, may be accepted by the reader, not as the natural but the claffical hifory of cinnamon:

\section*{}

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 Phenicians, Greeks, and Romans, and carxied
ried into the Faftern Ocean from the origin of the commerce. It is only within thefe few, years it has found is way into China in Britifh vefels, where it is now become an article of fach magnitude, as greaty to diminifh the quantity of xpecie necefary for that madket.
 pigè, Kabalite Peripl. p. 28.
Different pecies of nard。 See Nápiós.

Coverlids plain of no great value, (or according o another reading, not many; with the knap on one fide. Hefychius and Phayorinus, cited by Hudfon.

\section*{Konevdícquvtan Kolandiophonta.}

Large Ships on the coaft of Travancour, in which the natives raded to Bengal and Nalacca. They had veffels alfo called sangara, made of one piece of timber, which they ufed. In theit commeree on the cont of Malabar, The Monoxyla of Pliny, employed in bughing the pepper down the rivers to the coaf. Lib. vi. p. 23.

Lopánsoy. Coraly:
Kooros \({ }^{4}\) : Cofius, Cofium,
Is confldered as a fice and aromatick by plany, hib. xil. criz. It is called radix; the root prememinently, as nard, is faled the leafo Cortus

\footnotetext{
42 It is wority of remark that in the enumeration of gifts made by Seleucus Cyallinicus tc the Milefans, there fhould be this difinctume. Frankincenfe \(\therefore \therefore \quad\) to talents.
}
\begin{tabular}{lr} 
Myrrh : & I.talent. \\
Calia & 2 pounds. \\
Cinnamon & 2 pounds. \\
Coftus & pound.
\end{tabular}

Thé

Coltus being, as we map fuppofe, the beft of aromatick ronts, as nard or fikenard was the beft of aromatick planits. This fuppoftion explains a much difputed paflage of Pliny. : Radix et Folium Indis ef maximo pretio, the (root) coftus, and the (plant) Sikenard are of the higheft value ine India: Radix Cont gutu ferens, odore exmion, frutice alias inutili; the root of the coltus is hot to the tafte, and of confumate fragrance; but the plant itfelf, in other refpects, without we or value. It is found at the head of the Pattalene, where the indus frif divides to inclofe the Delta; of two forts, of which that which is black is the inferior fort, and the white beft.. Its yalue is fixteen denarii \({ }^{42}\), about twelve fhillings and eightpence a pound. Thus having difcuffed the coftus or root, he proceeds to the leaf or plant. De folio nardi plura dici par eft, but of this hereaftes It is here only mentioned to give the true meaning of the pallage.

This soot is faid by Salmafius to grow in Arabia as well as India; and \(I\) do not fud that it has acquired any European narne, though it was formerly much ufed in medicine, and called the Arabian or true coftus. It always contracs a bitternef, and grows black by keeping, which probably accounts for the white being more valuable (as Pliny fays), becaufe it is frem. Mr. Geoffro, a Frencla academician, mentioned under this article, if Chambers's Dictionary, conFeders it as the European elacampane root, which he afferts; whea .well fed and prepared, has the properties of the Indian aromatick.

Coftus corticolus bark, colus has a fcent of cinnamon.

\footnotetext{
The reafon is evident ; frankticente and and collus were Tall Tadia ronmodities. myirh were procurable in Arabia, wheh bor- See Chillan!, Antiq. Aliat: p. 71. stered on his own kingdom, Cafia, cineamon, 42'The numers in Phoy are debiots.
}

\section*{APPENDIX.}

\section*{^}
\(\Lambda \alpha \alpha_{0} \alpha \nu 0 v^{43}\).
A gum or refin from a plant called leda, lada, or ledum, a Speciés of ciftus. It is of a black colour,' from Arabia; the Eaft India fort: is very heavy, and like a grit-ftone in appearance. 'Dr. Burgefs in. forms me that it is adulterated with pitch from Pegu.

\section*{}

Is a gum adhering to the fmall branches of trees, fuppofed to be depofited by an infect:-When taken off and melted it is reddifh, formed into granulated feed, lack for japaning": into fhell-lack for fealing wax. Pomet. book viii p. 200.

A dye of the red purple, (according to Ramufio, pref to the Periplus, bacco de tingere but Salmafuis, Plin. Exercit, p. 1160, fays it is a cloth of this colour.

мieavoso Frankincenfe \({ }^{44}\).
Aícuios of тegarnoss: From the Coaf of Adel.
A gum or refin fufficiently common in Europe, ftill; originally introduced from Arabia only, and ufed by the nations on the Medi-

\footnotetext{
43. Efcrod. lib. iii. p. \(2 ; 3\), where he fays, tom. iii. p. 350. it is collected from goats' beards, amoft fra- it Olibanus, cleun tifinani. grent odorific gum. See Larcher, Wituot.
}
terranean under the denominaton of thus and libanus which are fyonymous "Its name is derived froming laban, white, Heb. and wh, loban, Arabick, becaufe the puref fort is white "s without mixture. Sec Bocharts tom. 1. po no6. Hence libanus and the corrupt olibanum. M. Polo calls it enconstanc Bergerons Col, p. \(1533^{\circ}\) It was chiefy brought from Hadramaut or Sagar, a tract of Arabia on the ocean. The beat fort is tikewife in finall round grains called Xovjos, from the Arabick nop, chonder Bochat, ibid. But Niebuhr fays, that the libaup of Arabia at prefent is greatly inferior to that brought from India, as being foul, mixed with fand and fones; he adds alfo that the plat which produces. it : though cultivated at Kerchia and Schahir (Sagar) is not native, but originally from Abyfinia See Niebuhr Arabia, tom, in po 202 II. p. I 3 . in which opinion he fapponted by Bruce. When he Whs in Arabia the Eughat traders called the Arabian fort incenfe of frankincente, and the Indan or better fort, benzoing and the worf benzoin was eftemed more than the bef incenfe, The "Arabs themelves preferted the Indan to their own, and called it bathor Java, either becuole it grew in that iffady or was imported from. Batavia: See alfo dinville, Geog. Anco tom fo \(\quad 223 \%\)
 anoran ar olafs and Porctiane made"at Diofolic.

It, Lithia Hyala. Several forts of giafs, pate, or chryftalo See article Aisic dooipuyms.
\[
2 \mathrm{~d}, \mathrm{Ar} \text { as Muget }
\]

\footnotetext{
45 It grows yeliow by keeping Dir, Burgeco has hpecimene of Arabian libans but pofably Orientid,
}

Which

Which Salmafus rays, ought always to be written morrina, not myrrina, myrrina, murhina, or murrina: And he maintains that it is certainly the Oriental porcelane, It is here evidenty joined as the adjective to \(A h^{\prime} \alpha\), as it is afterwards (p. 28 . Peripl.) mentioned
 Maggin \({ }^{46}\), where it is pecified as brought down from the capital of Guzerat, Ozene; (Oigein,) to the port of Barygaza or Baroacho. All this feems to confrm the opinion thet it was porcelane procurable In "India at that time, as it now" is ; and that was brought into Egypt by the hips that went to India. But what is more extraordinary is, that it was imitated in the manufactories of Diofpolis in Egypi, juft as our Luropean porcelane is now formed upon the pattern of the Chinefe.

But in oppofition to this, Gefner produces a variety of authorities froin Io. Frid Chriftus, to prove that it is a foffil and not factitious. The principal one is from Pliny; lib xxxil. c. 2 . where it plainly appears that Pliny thought it foff from Carmania, while his defcription of it ruits porcelane better than any fubfance which we know, as, Wariety of colours, purple, or rather blue and white fpots, with a fort of variegated rellection between both. Martial ftyles it myrrhinapicta, xitep. rio, and notices it as capable of containing hot hiquors.

> Si calidum potes ardenti murara Falerio

Convenit, et melior fit Capor inde mero.
This fapor and the odor mentoned by others are the only prow perties we cannot atribute to kin conforinity with the language of the ancients: Martiatuotices likewife,

Wacuofz pocula nurre.

\footnotetext{

}

\section*{APPEENDX:}
nd when another citation is adduced
Murteague in Paythis pocula cocta focis. Fropermos ify 5 2ot,
hritus as forced to contend that mutra is not the fame as mute ina but mitation Tike the Diofpolite manufacture.
That it cane from Partlia \({ }^{6 n}\) into Egyt, to the countries on the Rediteranean, and to Rome, feems evident from a variety of uthorities, and thatit might well do, if we confider that Parthiz omonicated with Tudia by mears of the Perfan Gulph; and ioflibly on the north with China itfelf, by means of the caravans. Che mention of Carmania by Pliny as the country where the murhina were obtained, favours the fuppoficio of procuring thefe reflels from Indaa for the communication of Carmania with Scind ind Guzerat is alnof immediate, and certainly prior to the navigaion from Egypt to that coat, But in Guzeat they mere obtained, When the author of the Perplos was employed in that trade and hey arrival the market of Barolch, from the interior of India, nay induce us to fuppofe, that they came, into India from the iort \({ }^{2}\).

The immenfe value of thefe vefels at Rome might well arife rom their fatcity: They were frof foen there the thumphal proceflicn of Pompey, and mit be obferved that Pompey returned from the fhores of the Calpian Sea. a They were afteryands introducedinto ue at the tables of the great, but of a foll face and eapacity as cups for drinking Afterwands one which held three

\footnotetext{
4T The gingam, not the province as we at fome tronter, like that between the Rutmay fee from a fomer citation noticing Car. fans and Chinefo at Kiateha is evident from mania.
s 8 That there was an intercourfe wilh the Sergs on the northof the Flimmalu mountringy" tribe betwecis India and China is not materinl. axd that exclayge of commoditics took place
}

Sextarii or pints, was fold for feventy talents; and at length Nero give thre hundred for a fingle velfel. The extravagance of the purthafer might in this inftance enhance the price, but the value of the article may be better eitimated by the opinion of Auguftus, whio, upon the conqueft of Egypt, felected out of all the fpoils of Alexandria a fingle murrhine cup for his own ufe. 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 fip her tea, but drink her Mareotick wine out of china.

I have not been able to confult the work of Chrifius, but take the account of his argument from Gefner, and I refer the reader for further infomation to Gefner in voce, to Chambers's Dietionary, to Salmafius, Plin. Exercit. and to an exprefs differtation in the VoJumes of the Acadeny of Belles Lettres, which I have formerly feen, but have not now an opportunity of confulting. I recollect that it is in favour of Salmafus's opinion, that murrina and porcelane are the fame:

\section*{A. ot'a d.aquàis.}

A tranfarent fubitance of fone or pebble, but it is probably here the glals made of fone as clear and bright as chryftal, and the fame as \(\mathrm{Y}_{x} \mathrm{n}_{\mathrm{n}}\); Hyale mentioned before. Salmaffus, p. log 6 , has a very curious quotation from the Scholiaft on Arifophapes ad Nubes, Act ii, fcen. it. "We call Hyalos (he fays) a matexial made of a "certain plant burnt, and wafted by fire fo as to enter into the \({ }^{6}\) compofition of certain [glafs] veflels. But the ancients apro"priated the term hyalos to a tranparent fone dalled krion, or "chryfal."-This perfectly accords with the manufacure of glats; compoled of fand, or fints; and the alhes of a plant called kali or

Firratia in Narbone Salm Hid and Chambers in voce: But glats has its name from ghftum \({ }^{49}\) or woad, the blue dje; becaufe commoi glafs was of that colour, but the tranparent ftoney glafs [tint glafs] bere mentioned feems to take its name [doqoust \(]\) tranfarent, and \([\) Taint \(]\) chryfalline, from its fuperior purity and initation of the chryftat. "The whole pafage in the Scholialt is interefting, and worth

" The Thyalo' or chry nat is formed circular and thick for this "purpole [the purpofe of a burning glafs], which being rubbed "with oil and warmed, they bring near the wick of a lamp and " light it:" [it" was pubbed with oil probably to clean it, but why warmed does not appear, " Honter knew nothing of the "'chryftal, But mentions amber". [trae; for with Homer egúrad \(\lambda\) os is always ice:]

Hence it appears that chrytal was known to Ariltophanes, and the application of it to the purpofes of a burning glais ; that glafs was known in the time of the Scholiaft, and that Honer knew nothing of euther. The ufe of a peble or chryfth, however, to kindle fire is known at leat as early as the whitings of Orpheus meg 入hsw. And if the writings attributed to Orpheus be really the work of Pythagoras, or a Pythagorean, as Cicero fuppoles, De Nat. Deorum, the knowledge of thits property is fill very old.

That clear or flint glals aflumed its name from " \(x \alpha \pi \%\) chryfal, is fult nore apparent from a paffage of Diodor. Sic. lib. ii. p. 28 ed. Weffel. where mention is made of both forts, the facticious and native

\footnotetext{
A9 See Vomus ad Melati, Variors ed. shz2, who cites Pliny, Hib. 大xii'c is". Simite Plantagini Claftum in Callaty qua Britannorum conyiges nurifque toto compore oblites: Vof.
}
fus adds, apud Cambro Britamos ifatidis proventus Glas appellatur, etcrerulcum colorem. Herba ifatis is 'Woad.

\section*{APTENDIX.}
"Teroys, as he writes it. The glafs coffin of Alexander is called 'TaXiom, 'by Strabo, lib. xvii, p. 794. See Herod. iii. p. 206. et Weffel, not. et Diod. "ii. p. 15 .

\section*{}

Stone of Calleau; literally Goa fone, for Callien is a river that falls into the fea near Goa, and retains its mame to this day., Rennell, d'Anville Not that this is the modern drug fo called; but a blue flone \({ }^{50}\), according to Salmafus, p. 240 , and an emerald in the eftimation of Ramulio, pref. to the Periplus. :

\section*{}

Probably ferpentine or hematite marble, in the opinion of Dr. Burgefs, Ophan or opidian fone. But Salmafius ridicules Pliny for calling it opfidian, or faying it was difcovered by Opfidius. In Gisek it is always opfian, and is a green ftone very dark, 'approach-: ing to black, It was found in the illands of Ethiopia; and from taking a hith polifh was ufed by the emperor Domitian to face a portico, fo that from the reflection lie might difcover if any one was approaching from behind.

The opfidian tone, mentioned by Pliny, is factitious", and feems very much to refemble the material of which dur brown or red tea-poss are compofed. Totum rubens, atque nön thanfucens, hxmaticum appellatum. See difcourfe in the Memoirsl of the Academy of Sciences. The fecimens of this fone, whech I have feen; are fo dark that the green caft ean only be difcoyered by holding them in a particular pofition. The clofenefs of their texture feems.

\footnotetext{
\({ }^{50}\) But he mentions it as a topaz, and fars. blae, why not a wrquife? whick is atill 3 there are topazes of two diffent colours; if favourte fone in the cal.
}
APPENDIX
to adinit of any degree of polifh that the artint may be difnofed to give them:

\section*{Aúpoos. Lygdus.}

A beautiful white marble, or rather alabafter ufed to hold odours; Ramufio: Salmafius fays, an imitation of this alabáter "was formed of Parian marble, but that the bef and original lygdus was brought from Arabia, as noticed in the Periphê, from Moota. Salm: p. 559.

\section*{Aứrioy. Lycium.}

A thorny plani, fo called from being found in tycia principally. A. juice from which was ufed for dying yellow, mentioned by Pling and Diofcorides. The women alfo, who affected golden locks, ufed it to tinge their hairo, Salm. "p. 164 . Why this. fhould be fought in Scindi, if it was found in Lycia, does, 菀t appear. It is found now in the fhops by the name of the yellown berry, box thorn, grana d'Avigaon. Dr. Burgefs'.

\section*{Awdseg. Lodices.}

\section*{Quilts or coverlids.}

\section*{}

Goverlids plain and of the country manufacture at Moofa.


\section*{M}

Map \(\gamma \alpha_{5} i \tau \alpha\), P. 84.
Pearls, filhed for near Cape Comorin, where the fikery fill continues, or the Lackdive Iflands, formed a great article of commerce on the coaft of Malabar.

Madóbágov, p. 84. Malabatbrum.
A drug or aromatick as much difputed any Oriental name which occurs. But generally fuppofed to be the betel nut, written betre, and preferving a relation to the two final fyllables of the Greek: This nut is enclofed in the leaves of a plant called arecka, mixed with lime and fometimes with odours, and ufed as a mafica; tory, by almolt all the Oriental nations, but more particularly in the Molucca illands, the Golden Cherfonefe, and China; it turns the teeth black, and confequently makes white teeth out of falhion, as Prior fays,

> King Kihu put ten queens to death,
> Convict on ftatute, Iyory Teeth.

The compofition, being from two plants, the beetle nut and the arecka leaf, has probably given rife to the variety of defriptions and allufions in different authors. Bar Horace, lib. ith, ode, 7 , ufes it evidently as an aromatick unguent;
--nitentes,
Malobathro Syrio capillos.
And Pliny, lib. xii. 26 xiii. 3: confirms the allnion by making it an unguent from Syria, but fays a better fort comes from

Egypt, and fuperior ftll from India:. This, therefore, cannot be the Oriental betel, though as an exquifite odour it may, by fome intermediate corruption, have ufurped a name, from the true Botpoy or betel: The price was prodigious, according to Pliny, the dirug cofting three hundred denarii, ten pounds a pound, and the oil fixty or feventy denarii. It was ufed, he adds, as an odour in wine lukewarm, and had the flavour of fpikenard \({ }^{\text {ss }}\).

Whether the author of the Periplus ufes malabathrum, as the unguent known to Pliny and the Romans by that name, canot be determined, as he merely gives the name without explanation in his lif. But that he had obtained an obfeure knowledge of the betre, and its form as rolled up in leaves, is proved in the manner of his ufing the term petros. This demands a feparate confideration, and will be found at the conclufion of the periplus, explained in all ita garts, as far as the learning of Salmafius can guide us.
\(\therefore\) Máesio : Macer.
An aromatick from India, the bark red, the root large; The bark ufed as a medicine in dyfenteries. Ping xii s. Salm. 1302.

\section*{}

Knives or canjars worn at the girdle.

\footnotetext{
\$2 It appears by Pliny, lib. xiil. c. 2. that the Spikenard, the firt of odours, which if altmof all the fragrant odours "of the eaften: "pre-eminently called foiium, or the leaf, in tered into the compofition of their unguents. "oppofition to coftus, or the root. But the In, the royal Perfan, inguent no lefs than twenty-fix odours are enumerated, and among them the malubatiaron, whict is not fo pröperly an odour as a timulant, if it be the betel-nat being wrapt on the arecka lyaf has probably given rixe to the miftake. Sce fliny; lib. xii, \(\mathbf{v}\). 12 Where the hadrofphernm, me-
 betre; but it is frequently confounded with the betel, are falely applied to the foikenard
}

Brafs \({ }^{5 s}\) on copper, prepared, as'Ramufio fays, for veffels of cookery. But rather for ornaments of women, as bracelets, anklets,
 were prepared with feveral materials to give them colour, or make them tractable or malleable. Thus \(\chi^{0 \lambda}{ }^{2} 6 x i \phi \alpha\) in Hefychius was brafs prepared with ox's gall to give it the colour of gold, and uled like our tinfel ornaments or foil for ftage dieffes and decorations.' Thus common brafs was neither ductile nor malleable, but the Cyprian brafs was both. And thus, perhaps, braffs, \(\mu \in \lambda \lambda \in \mathcal{q} \hat{q} \alpha_{a}\) was formed with fome preparation of honey:

Honey from caties. Sugtar.
In Arabick, fluker, which the Greeks feem firft to have met with on the coalt of Arabia, and thence to have adepted the Arabick. pame. It is here mentioned on the coaft of Africa, where the Arabians likervife traded, and either imported it themfelves' from India, or found it imported;' it was evidently not found in that age growing in Africa. The Sharifkreet name of fugar is ich-fui-cafa, and from the two middle fyllibles' the Arabick punkay or huker. Af. Refearch. iv. 23 r.

\section*{Mendautovo Honcy Lotus.}

The lotus or nymphai of Egyp:. The falk contains a iweet and eatable fubfance, confidered as a luxury by the Egyptians, and ured

\footnotetext{
33 This article is, very dubious.
}
as bread; it was fometimes carried to Eome aud the Periplûs makes if an article of importation at Barygaza. It appears allo to have been uled as provifon 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: Tuppofed to be the fruit of a tree, by our African travellers: Authors difer, fome afferting that it is fill common in the Nile, others faying that the lotus now found there has neither pulp nor fubitance:

Mox óts. जvíúajoz.
An incenfe called mocrotus or mocroton.

\section*{Monáxiva.}

Confe cottons of the colour of the mallow. Others read Moy \(\chi\) ? either fingle threaded or of one colour.

Coarfe cotton dyed of a whith purple, and therefore called molo.
 0233
\(\because\) Mádúo dos. Lead.
Moร山.
A Species of cinnamon, See Kaooic:
Múpov.
Myrch or oil of myrh Unguent in general, but pre-eminently of matrys:

St African is beft, the Abymian, Arabian, and rodan worto Dro Bugefs
Agun

Agum or refin iffing from a thorn in Arabia, Abytina, Bx. Brace has gived an account of the plant; he fays it is originally from Africa, and that the Arabian myrin is ftill an inferior fort, See Buae, Chambers; and Salmafus.

Porcelane. See Geffer and Chambers in Yoce.",

\section*{N.}

Nopposio. ..
 Twe nard of Gapanick..... or of the Ganges.

No Oriental aromatick has caufed greater difputes among the critucks or writers on Natural Hiftory, and it is only within thefe fewr years fhat we have atrived at the fue knowleage of this curious odour, by means of the inquiries of Sir: William fones and Dr. Roxburgh.
Theit account is contained in the ivth volume of the Afatick Refearches; and Dr. Roxburgh was fo fortunate at laft as to find the plant in a fate of perfection, of which he has gyen a drawing that puts an end to all controvery on the fabject.
\(\cdots\) The naxd has the addition of pike from the Uatin foica, an ear of wheat, which, "according to Dr, Roxburgh's daving, "it perfeelly refermbles: And this adjunct is found allo in ts, Arabick naree, fumbul. Andin its Shankreet appellation; jatámáasí ; as alfo its


Sir William Jones, Aliat kef iv. ing, fays it is mantive of Bud. tan, Népal, and Morarg; and that is a fpecies of Valerian, Tt is remarkable that he had himfelf feen a refemblance of it in Syria, as the Romans or Greeks mention Syria as one of the counthes where it is found; but Ptoleny gives it its true origin in thele tads of India. A foecimen was brought down to Calcutta from Boudtan at the requen of Sir William Jones, and the agents of the Deva Raja called it pampi; but it was not in flower. Some dried fpecimens of it looked like the tails of emnines, but the living ones; as Dr. Ros-: burgh afterwards found, rife from the ground like ears of wheat. It anfwers the defcription of Diofcorides. It is weaker in fcent than the Sumbul fikenard of Lower Afia, when dryw and even lon: much of its odour between Budtan and Calcutta, The odoun 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 Englih refident; and was at laft received in its perfeat form by Dy Roxburgh, who has defcribed it botanically. A. Ref. iv. 733 .

In the age of the Periplûs it vras brought from Scindi, and from the Ganges; which, according to Sir William" Jones, we oughe to conclude would be the natural port for it, as coming from Boudtan. This authorizes the change of reading from yozrap \(\%\), [gapanika; ]
 Ganges. Some fanciful incquirers might think they had found the mention of Japan in this palfage.

We ought not to omit fome particulars from Pliny which are remarkable, He defribes the nard with its fica, mentioning alfo that both the leaves and the fica are of high value, and that the
odour is the prime in all unguents. The price an hundred denarii Er a pound. And he afterwards vifibly confounds it with the malobathrim or betel, as will appear hereafter, from his ufage of hadrofpherum, mefofphxrum, microfpharim, terms pecullar to the betel. The characterifick name of the nard is folium ss"; the leaf pre-eminently in contradilinction to coffus the root, both as the prime odours of their two forts, the root and the leat.'

Dut there is fill a more remarkable particular in Pliny; which is; that he evidently copies the Periptus to the three places he allots for the markets of the fikenard; for he mentions Patala at the head of the Delta \({ }^{\text {s6 }}\) of the Indus, correfpondent to the Barbarika of the Periplas; and another fort which he calls Ozzenítides, evidently agreeing with the mart of Ozene (f. 75. Pcripl) ; and a third fort named gangitiex, from the Ganges, anfwering to gapanick, for which all the commentators agree in reading gangitick. Very Arong procis thefe that Pliny had feen this journal and copied fromi it, as he mentiois Dothing of Ozéne in his account of the voyage; and only catches Ozentitites/here incdentally. See Salmafus, p. 1059, et leq. "Who is very coplotis on the fubject, and has exhaufted all that the aricients thew of this aromaticks.

\section*{Hopyraticsy p. \(2 \frac{7}{7}\). Nouptius.}
lr.feems to be an inferior tortofe-fiell from the context, which'
 toife-ffell of fuperior kind" but not equal" to the Thdian; "and a

\footnotetext{
\({ }^{35}\) Salmaflas, p. 1065, ancelenty of cpunion; that Piny is regulaty mitaken in appitying folitim io nard. He fyys it is aways peculiaEo malobathrom betcl.
}

\footnotetext{
sp Whether this in Pliny dibes not arigity to collus?
s? It refembles the tain or mall amal; in Dr: Burgefy's Collection.
}
frabll quanticy of that fpecies called nauplius, It may, however, be a diferent commodity, but y canoot crace it in Salmafua or Miner, unlefs it be the thell of that fill he call napolys, mbe ix, co 3 o. which fems a frecies of the natutus:

Black fewing Glk both Chinef and Indian. If this paifage could be afertained as rightly rendered, it would prove that the filk manufacture was introduced into India as early as the age of the Perptus, सnua can hardly be apolied to a web, it fems always to be thread, and here fewing falk. If indicon is the adjunct of nema there is no dificulty, but indicon melan may be indigo in the opinion of Salmafucs.

\section*{0}
'Otasyove Mianin:

Wide Yodian mullins c̣alled monakhè.
 from innuov, a thread, Salm. pel1ヶd.

Salmafius feenis to interpret thefe two forts:as mufins made up in fingle pieces, or many in a parcel; he is not fatisfied, however, with his own interpetation; but it is to be obferved, that the fineft mulins ftill come to Earope made up in angle picces, called book munins from their form, And it by no means irrational to conceive that a cutom of the for is cocral with the trade:
\[
\text { APPENDIX. } 4 r^{\prime}
\]

Monakhe, fingle.
Sagmato ginè, made up in parcels:
Sagmato-pene; made of a bulky thread, or fo thick as to ferve for coverlids. Salm: ibid.

3d. fort. Xudaiov.
Coarfe mullins, or rather coarle cottons, called at prefent dungarees; Wilford, Af, Differt. vol. ii. p. 233. to which monakhè is oppofed as a finer fort.

\section*{Oruos. Wine:}
1. \(\dot{\text { Icoodseinvoc. Wine of Laodicæa, but which city of that name }}\) does not appear. There is a Laodicæa in Egyno
2. Itananòs. Italian wine.
3. Agabixas. Arabian wine. It is dubious whether palm wine , or toldy wine, it feems to have been a great article of com" meroc.

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 Liibon and Madeirá.
'OTท'ris, p. 27. Awols or bodkins:
An article in trade on the coaft of Africa, as needles are at this day,
- Óeqvansos. Mowinan brafs.

Ufed for ornaments. Ramufio calls it white copper, copper fon Which the gold and filver has no been well feparated in extacing it from the ore.

\section*{II}

Hapgevor exerocic
Handfome women flayes for the haram are mentioned as intended for prefents to be fent up to the king of Guzerat, whefs capital was Oencer Ongein.

We入úricot
Small Hatchets or axes for the African trade.
Meтep; Fopper.
Imported Trom the coaf of Malabar, as it ftinis; the native term on the coat themphe Satur p. io 70 or the Shankret, pipali. AfRef. vol, iv, pe 23\% The pepper coaf is called ta Arabick beled-elfulful: DAnvile, Ind. pato.

It was found by the Greck from Egypt firt in Ethopias as: an anticle of commerce brought thither by the Arabs, but was known in Creece intucheather

Tro forts are dininguined un the Periplits.
T. Kozrovaporor:

Tom Cotonata, the kingdom of Canara, accordng to Rennell, which is fill the principal mart for pepper, or at leat was fo before
\(A P P E N D I X\). ..... 43
the Englin fettled in Sumatra. This is the black pepper, See Marden's Sumatia.
- 2. Maxpò.

Long pepper \({ }^{58}\), fo called from its form being cylindrical, an incli and an haif long. It confults of an affemblage of grains or leeds. joined clofe together. It refembles the black pepper, but is more pungent. It is a fpecies of the Eaft India pepper totally difinct from the Cayenne.

Girdes or fathes, and perhaps diftinguified from the following article,

\section*{}

Sahes of an ell long, only in the difference of make or ormament.

Pearls orf the pearl oytcr, See the fifhery at Cape Comorin

Puple cloth of two forts, fine and ordinaryo. An article of trade at Moofa in Arabia.
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Horigice; Drinking veffels,
$\mathrm{X} \alpha \lambda i c a, B r a f s$,

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Mیみд́n, Largr.
5. Tabaxir is, the common long perper

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Probably all three epithets apply to the fame veflel. An article of import on the coat of Africa,

TIueós ö入íros.
Wheat in foal quantities, imported into Omanay or Oman in Arabia.

\section*{P}

The horn or the teeth, and poffibly the fin, imported from the coat of Abyminia, where Bruce found the hunting of this animal till a trade, which he has described in all of ito branches, vol, iv.

\section*{\(\sum\)}
\(\Sigma \alpha^{\prime} \dot{\gamma} \gamma \alpha_{\rho} \alpha_{0}\).
Canoes unfed on the coal of Cochin for conveying the native commodities from the interior to the ports, and foretime along the coat:

Rugs or cloaks made at Arinioe (Suez), dyed, and with a full knap.

Red pigment, Sam. p. rr 55 found in gold and fiver mines. Pliny. Ore of Cinnabar. Dr. Burgess.

APPENDIX.
इüncosposo Sappbire Aonc.
"The ancients diftinguifhed two forts of dark blue or purple, one of which was fpotted \({ }^{\text {s9 }}\) with gold. Salmafo p. 130 , et feq. Pliny fays, it is never pellucid, which feems to make it a different. ftone from what is now called fapphire.

What is meant by \(\delta_{e \rho f \mu \alpha \tau \alpha}^{\prime}\) no where appears, unlefs it can be applied to the rágrovos, whence the malobathrun was procured. But this is very dubious. See Ma入óbadgov.

E'ídnos. Iron.
An import into Abyfinia for the manufacture of fpear heads, to hunt the elephant, rhinoceros, \&cc, \({ }^{60}\).
"Ivdixog.
Gron tempered in India.

Tine linen of any fort, but that imported into Abyfinia might be Egyptian, and poffibly of cotton, but

Can be nothing elfe but the finef Bengal mullins.
之irocs. Wheat corn.

\footnotetext{
59 Dr. Burgefs has fpecimens of both forts, the one with gold fjots like jopis lazuli, and not tranfparent.
\({ }^{60}\) To cut like an Indian fword, is a common Arabick proverb in Arabha, And in
}

Egypt, Shaw (p. 364.) fays, the hardeft tools (as drills for working the granite Obelifks) were made of Indian iron.' Shary quetes the. Periplus, but not perbaps juilly.

In contradifinction to \(\pi\) siduru, hatchets:
Exevery agruãa : Silver plate.
\({ }^{\mathrm{c}} \mathrm{ra} \mathrm{\lambda} \mathrm{\alpha}{ }^{\alpha}\) 。
Veffels of chryftal, or glafs in initation of chry fala


Of a fuperior fort,
\({ }^{\text {' }}\) Evasury
Of the bet fort,

\section*{इтахгク: Gum.}
 Salim. 520 . Extract or diftillation from myrrh, of the finef fort, The reading is proved by Salmafus from a fimilar error in an in : edited epigram:

Stibium for tinging the eyelids black.

Women's robes manufactured at Arsinoe or Suez

Erúpos. Storax.
One of the mon agrecable of the odorifcious refins. There are twol forts, florax in the tear, fuppored to anfwer to the ancient fyrax calamita, from its being bronght in a hollowrea, or its diftillation from it; and cominon forax, anfwering to the facte ftyrax \({ }^{\text {st }}\) of the ancients. It now grows in the neighboumood of Rome; but the drug was ancientiy brought thither from the illands in the Archipelago. See Salm. p. 1026. Chambers in voce. Moft of thefe gums, refins, and balfams have in modern practice yielded to the Americun, as this feems to have given way to the balfam of T'olu.
\[
\sum \omega \mu \mu \tau \tau ; \text { р. } 15
\]

Slaves from Africa, an ancient trade! but the number was not great.


The hyacinth or jacinth, a gem of a violet colouf. But Salmafius fays it is the ruby, p. Iro7. See Solinus, c. xux, p. 57, where it feems to be the amethyt.

\section*{X}

Xadrös. Brafs or copper.
or Serabo mentions fyrax in Pifidia, a difiliation from a tree, cancedty a worm breding
in it. Lib. xii. p. 570 .

Veffels of brafs, or any fort of brazier's work.,

Tortoife-fhell feems to have formed a great article of commerce, for ornaments of furniture, as beds, tables, doors", \&ec. bothia tialy, Greece, and Egypt. It was brought from the coafts of Africa, near Moondus; Socetra, Gadrofia, Malabar, and the Lackdive, or Maldive inlands; the former feem to be defigned by Xeviraviñqu of the Periplûs.
\[
\mathrm{X} \iota+\tilde{\psi}
\]

Under garments, imported from Egypt into Africa:

\section*{X хоп̈на". Specie.}

The Periplus is yery accurate in noting the ports where it was: neceffary to trade with Specie; and in more inftances thar one, notes. the advantage of exchange.

Sometimes the fame as chryfites, the touchtone for gold, Salm. p. IIO3; butdefribed"as a fone as it were fprinkled, with fpots of gold, Salmafitis, p. 407 . who points out what it is not, but cannot: actermine what it is. It may well be the topazz \({ }^{68}\).
\[
\mathrm{X} \text { guaz̃ }
\]

Ufed with dyuágov, as is aןzugz̃y alfo, exprefing gold and filver denarii.

\section*{Xevóworm, Gold phate"}

6x The Bobemian is yeliow with a greenifh rut, the Oriental is vary pale yellow, Dis. Surgefs's Oxiental topaz deep yellow.

\section*{No. II.}

An Accound of the Abulitick Inscriptron collected from Chsimul, Montraycon, Melchisedeck Thevenot, and other. Authors.

The Adultick Infoription is in itfelf one of the mof curious monuments of antiquity, but the prefervation of it, and the knowledge which we have of it at this day, are fill more extraordinary. than the infcription itfelf. Cofinas (Eyled Indicopleuffes, from the fuppofition that he had navigated the Indian Ocean, which in truth hee had not,) copied, a Greek infcription at Adalè, which has: fince appeared to relate to Ptolemy Euergetes, and to prove that he had nearly conquered the whole empire of the Seleucidar in Afia, and the kingdom of Abyffinia in Africa : two biftorical facts of coniderable ; importance; notwithitianding, his fuccefs in Afra was fcatcely difpovered in hifory ', till this monument prompted the inquiry, and the conqueft of Abyfinia fill refts upon this evidence alone.

The veracity of Cofmas, in his report of this infcription, is: eftablifhed upon proofs which haye nearly united all fuffrages in its favour; fome obfcurity there ftill remains, and forme few objections taturally arife; to which Chilhull has given a fufficient anfwer. But there is one obfervation of his that is irrefragable, when he

\footnotetext{
* It does not now appear in any. hifory to fentence cited out of Polywnus by Bayer. Sie the extent that the marble afiumes, or in any infra. wat amthor that I cain difcover, except a fugle
}

\section*{A PENDIX, NOM.}
iys that Comas hindelf did ner know to when of the Dtolemies belonged, and contequently he could not bemfestorer of particuars which accorded with one, and one only, of the whole Dynatio. The vork of Cofinas is "fyled Topograhia Chritiants and is atended to prove that the earth is a plane, ho oppoftion to the dololophical notion of its being a fohere, wich hen athor con. cived to be an heretical opinion, controty the tovelation of tue cripturese The had himfelf travelled mach, and Ghthe parms he rifted, he ftill fond they were all on plane, as oblas Grece: n confequence of this notion, His deductions are gather exraords bary ; bat the fact he relates, and die conneries he decribes, ofe given with all the mark of veracity that fmplicty ean aford.

There were \({ }^{3}\) to copies of his work, one on the Vatican, fuppofed to be of the ninth century, and poother Florence in the Mibrary of Lorenzo \({ }^{4}\) attributed to the tenthe Tn a 63 n, Leo Allatis pubined the Adultick Tnitriton from the copy th the Tatin

 fopton was again publifed by Melchzedeck Thevenot, in is Cohetion of Voyares, from the Dorentine copy, extraded by Pigor. And finaly the whole Toperrapha Chrinona was ediced by
 Valant, all bear tefimony to tee mathencty of the bafrintone
 Eeghatio he detath, ond therufore coud are?

 comfoundmith Ledkyon ou/the wtonock hde, "n hisore cemato the manifo

and the internal evdence is fuch as hardy to letye a doubt apon an unprejudiced mind. . Let us now hear Cofmas feak for himflif,
\(\therefore\) Extract from the Topographia Chintanat of Comas, wittor A. D. 545 , p. 140, ed. Montfacon.

Adule is a city of Ethopia, and the port of commanication with Axiomis and the whole nation, of which wat cicy is che canital; Tit the port we carry on our radefrom Alcxandia and the Elanick Guph" the town itfif is about two miles from the thore, and as you enter on the weftem dide, by the road that leads from Axomis there se fill remaning chanor throno which appertaned to one of the polemies, who had fubected this country to his apthorty This chair is of beatiful white marble " pot to white fnded as the Do-connefan but fuch as we employ for mable

Attarthe pace naide with Saleucus for ico yearon hat enewed afterwards for teil years more, fedree a word occurs sin intory. concurning fyot Buergetes, the this accomt on the ugarbe/was dícovered by Cofmas mora chan foo ycars atterthe invaron of Elhiopia by: this monapan Cuspoty.
\& Britton in diferent authors Anama, Arum, Axime, and Axim:
\(\Rightarrow\) The trade of Solomun mad Hram was camid on frime Eion Giper, at the hew of, the Elanitick Culph shd in all agen, t: imagici, Lia, Hita of Ahath, to bave been. the mart to wish ine Phericians of riyte Nerated or to Phenicun whel perhaps took its name from thume" Ela and Plequicon my at dibcren times have beon in the pontinon of Nabacheans, Prtana, EgThans, Ty yams, "Jalrews "or Romans.
so Sec the view of Adulè in Cofmas's draw.
ings, in whath both pyrainids and obeliaks ingpeay; mear: as tile exccution 15 , the fe are a cenain proof that the manares and coloms of Abyfunt in that aye wexe Ethopick and Egyptiain: ' Bruce found the fane at Axinno; and if he cond have fopped at Muroe to exambe the ritins the there pafted, afturedy they woud have bece Egyethan alo or Ethiopick: Exe faw at ramand of ruins from Acuma to Ncriè:
Aoxumatra, valtabie, conty
\(\because\) The inand of Pruconnelus ar the Fropoutic raturally fuppied Contantinopie wish marble, whath when it mach aboundets as 'to clange "tst yainc so Márnora, and to give that tife to the Fropontis, now called ahe Sies uf Marmora: A monk: of Contantinople ot courle referred to the phatle with which he was not arguained. The church of Santa Sophia is tuile with Po coniefan marbite.. \(\mathrm{g}^{2}\)
tables, it fands on a quadrangular bafe, and rets at the fout corners on fou fender and elegant pillarsi, with a fith ta the centre, which is chameled in a firal form. Or thete pilars the feat is futportcd, as well as the back of the throne and the two fides on the xight and lett.
The whole chair with its bafe, the five pillars, the feat, the back, and the two fides, is of one entire piece, carved into this foums: in height about owo cubts and a half, and in hape tike a bifon's throne \({ }^{\text {it. }}\)

Ar the back of the chati is a tablet of bafante [or touch] ftonets: three cubis in height, the face of which man [oblong] quare, while the whole rafs is in the form of a lambda, ring to a point * at the oo, and forading at the botton, A- But the front t 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": [Gone"or] marbe and the chair itelf is [in a marmer covered over and] flled with Greek characters:
\({ }^{4} 4\) Cuthedra.
ss Defanites is Mppord to be an Egyptian
marble or granite, and the hanie alfo to be
Egyptran and not Gicek from \(\beta \alpha+\sigma \sigma_{0}\), is it
is ufually efteremed.' SceChambers's Dictions
ary, art. touchfone. ThioGreck term giocum;
might pofibly' be detived from Egypt, the
country whege the tonchfone was procured.
But it is'perfectly Greck in its afage and de-
rivation.
but not correctly; Chinull whics, ad modum
tabulx piçorize, but how axat tho that fenfe
I cannot determine, I fappole this batantite
Sone or manble to be in the form of a wedgex:

Ruare [a oblong gurdey on the broadd face and like a A on the lides, the broad fuperficies is to reprelented io the driwing of Colmas, an oblotg fquare bioken at the corner, the channelling of this tablet is reprelented as cartied round the bromes corter, whether thit it the "error of Cofnas or the engraver muft be de." ternimed By the MSS:'
ir züna, bridy, the whole body or hais of "a marble in the form of a latribda cannot be"a: Cquare, butawedge ; it is due of the faces beg this wedge which mult be meant, and eyen this would not be a fquare, but quadrangular (rergéywox) as reurefended in the drawing of Cofnua; that is a parallelogram, "

Whome fompent that whet was in this pare of tre contrys.
 the tegis of Jutia the Roman emperor, that Elefoasn" the king of, Axibmices wher he was preparing, for atr expedtion againt the: Iomentes [in Araba] on the otherfoe of the Red Cen, wote to:



The expeotion of Tle bata is uftitly placed ia 5n; the ciplith year of Jutin, but the marble maghe have beed copied a year or turo yeas betore, the expenititod.
 What in a hifton fo obfureignin wild as that of Abyfinia, any fact lhould be eftablifhed upon fuch clear' ani \({ }^{\prime}\) fatisfacepry grounds; ast theitet the seign of Eleftaagend hisexpedition Guto Arabá Tot the abobties áduced by Daromas, Monctancon, Ludalfus, Chifhulis: and Whice are fo exprefs, that there cannt xeriain a doubt stand if that deign is eftablined, the weracigy of Cofnas meeds no other fupport: Now it appears from the eviderce they have adduced, 'that the fovercigres of Abyfinia' in the reign or zuthin about the gear 525 ; had atended fueir powarinto the country of the Eomeries, which is a ditrict of sahe, where the had ze veltor rehdint it monato alfo that forne Abympinhs had been, aut to deard bry Gumapma, "one"ot the tative chieft in Arabieg and a Jew, who age dilli confitiered as matryts he pheir fath, wid , thit Elebaas un-

 his Ghbers, His Abymath title was Caleb d Airebay or Caleb the Biefted; whence the Greck corruption of Elefoas, Elefoans, and Elefeaian (Brace, vol: it. 2. 503. Luquif, Af Es Fiat of Cthiopid). Bruce afures
nide of axdma, and Mont taicon cites Nom. vorus in Photius; whofe teftemony corrobogates, the chronicle io the ampleat manact, (Montaucon Nova Coilectio Patrumstomi p'x40.) for' Nónnofus: [peitso of himlelf"as. errobafador from Juitin to Kaifus, zn Areb prince of the Kórdini and Ra"deni', and to Fießbáas kruit of Axutria, agrceing to much both in time and name with the Elcháas of: Cormas, thiat it induces "a" codjeltate thas. Cofmaz wad amonk in thes ruite of tie cri-", baflador' (fee Fhotius, p. ©. "ed. Genera,", 16s玄, with the citation of Nicephoint in the margin): Puet whour taking this mothes confideration, it is a natural confequence, if Nhelbas is proved ta be the king of A ounia In that ages that the account of Cofmas is worthy of citedit, Bruce ndecs, that Mahomet in the Koran micntions Dunaaras, not by remen but as malter of the ficty pirr, alluaing to the maryes who there purat (vol. i. p- sit.). Cther anthors cited ty Monctacon are Me'taphrallus, Callityes' Abúlpharage.
1. 2o Cofnas himelf io another pate de: leribes the country of ta Homeritas as ying y on the coatt of Aden beyond the "fraits b bit bs they pocapy the atyle of the couninent, their territory may evterd Goth wath and
 , vir.
,
 and to fend to him [at Axionns].
\(\therefore\) The governour, wholename was Abas 22, aphed tome and to a merchant of the mane of Menas, to copy, he moription Menas Was [a Grets of my acquantance whoferwards became] a mons ve athat and ded there hot lorg ago. We tundetoot the Bufinés"together, "and having completed ic, ] delivered one copyto to the governom, and ket another for curderes. Ws from this copy that toow fate the paticulars of the infoription and ough to ad, that in puttig them together [and drathg my owh con clufions from themy 7 nave found them very weful for forminga fodgruent of the councy, the fohabitants, and the diftances of the tefpective places 1 ongtomention alfe that we fond the figures of Hereules and Mercury anong the carvings, at the back of the Seat \({ }^{23:}\)

This is he form of the feat and the marble, And Polemy hibiel [feems to heak the words of the inctiption].

" I have here omittcd a conjesture of the monk fercign to the fubie 0,
\(\because\) 24. Comas fays, that malefators were ecusd befor thif chavin has time but whe ther it was a cuftem continuod from the time of Henemy he coinld not fay: Bruct mentions a mone Ax thateritum fill, on with the kyns of Abynhat were enthoned unt crowned, and shich likewife had an'infoription with the pame of Pioleny Eutegetese Had either of the fe fas and concern withatrudition or cuflom derived from Ptuthy? See Brice,

\footnotetext{
vol:
}
 theoppotite phate and copied from the MS By Mextaicon 4.

Wr fiftito upor the fyure or rquare tabe no he form of a A
Prolay the Great king, onas of Ptolemys king, and Arkine
 Pelemy, kitg, and Bexelitè , queen, gods prefervers \({ }^{\text {si }}\); defended

 fa, if apon the credit of Bruce ve concludes that Stolchy vined Axtma in perfon- ' That 'ingect, dobs ride quite follow from', thie, frone Weng Eidda theqe with his mame.. Put ofe
 hid hres Axdmas: he kere it was the capital of the councry; if he had Forged the inferiphou, sxama wonld doyblefe have been ad ' anitied.
... , . Ts This ganealogy at he commencemerit docs not quire agres with anothet te the ron'elpfios', where the brig icys, that Mars ivas'.
 funchas there Maqedoniat foyereigns initates Alexander in his yanity, "f they woud bave
 thought In rangot that their genctogy hould
 vanity of the king tand that it ongthe pot to be attribued to the miltike of Cofurs, orto his lapire ormemory:
Th Ta the character of emon \(A \triangle E A N D N\)

 arous prous of tha authemicity of , whe inh acription.
\(\therefore\) Beger had.ovjeted ginat on the cons of . Ptolemy gater and Sarenice, GFon culy was
fouind, and, nn thofe of fuladolphus, and

oljegtion was ftarteds tero gold coins were brought to lighe witiz the uniter hetacs of. Ptolemy Sotar and Berenice, of, Phiadelphus. asd Arlinde.' : The former had no inseribtion.
 "exátly, correfpondinin, with the Adulitick, marble , Yalhand Eif, Yo of Regum, p. 53:
 cited from Theocritus Idyl, \(x\) \%:



In which thicy are evidently comfecrated as:, deities with the tite of Antore. Chimple:
'A fecond oljection of Beger's was, that Thitadelphus Jad wo obildrem by Araneè his wife, and fifter. : But the Scholialt on Theow, critus Idyl. 17 . fortanately Furnifhed an anfwer to this alto,", who fays that Ptolenty' Phi" ladelphus war firt magried to Anfrioè, daughter of Irgimachins, by vhoth he had Proken'y: (4ttervards called Eutegtess). Kysimachus atid Berenice, , But that having difcovercí this'A:fuose engaged in tome conflitacy, he banifted her to Cuptus, and then merried his' fifter Arfinoè, "and adopked as ber elinidren thofe he had had by the other Arfinoe. This. Arfinöe, his fifter; was frarAipijed by the Egyptiana uader the title of Diva Soror, and Venus Zeteriyritio. Chifhuly,

2\% GERN ADEADRN.
\({ }^{24}\) OEASITERTHRON.
on the Sather's fide from Hercules fon of Jewiter and on the mother's fide from Dionyfus fon of fupitor, that is, Pepemy fen of Polemy and Arfraed, gramion of Ptoleny and Berenice, ] feceive ing from bis father the lingdomeof Egyt, Africa; Eyria, Hena Cypris, Lycia, Caria, and the Cyclades, invaded, Atia nith fis land and fea forces; and with elephants from we comary wis the Troglodytes and Ethopians, This body of elephaness pyas frit colleated out of thefe countrins by his father andhimdelf, and borght into Egrpt and taned for the lervice of war. With thele forces Pholemy abviacing into \(A f^{30}\) reduced all the contry on this fide the Euphtares, as well as Chlicta, the Hellegont, "Threce and all the forces in thofe provinces. In this expedtioti, hating capured alro many lndian elephants, and rubjeded ail the primces to bis obedience, he cofed the Euphrates, eitered Meropotama, Batym 'Ionia, Suniana \({ }^{3 \pi}\), Perfing, Media, and the whole conntry as 'fax' as'
29. A fact naticed by all the hiftorians, and preferved by Agatharchides, as almoft the only commerce remaining on this coalthe the time of Philometor.

30 So very linte of this concucte appears in biftory, that, having this infeription only in Thevenor's work I had doubed the whole, wI? I met by acciden with the panage in Appiai, which comfemed the fact, and agem at. tractud my attention, \(;\) but having afterwards procured Chiflulls work, (Aptiquitates A hanticke,) Ifound be had anticipated this prafage, and many of the oxher obfervatione which y. had taken fome pains to collect. See Ap. Syriac. p. 635. Schweighzufter's ed. St. Jerom on Daniel marions thefe conguets; and Appian notiocs that the Parthian revol: commenced upoin the diatrefs of the Syrian monarchs in this war.
si Rollin touches' wit bis' expedition of Pleieny, but molses ithop at the tigros, vol, vil. p. yot. but Puleny bere expretsify fays he entered Sultania, and as loollite confefes the dee Alaration of xwothoufand five bidedredigyptiac Haves we may alic, where comid hey be Lound excep at Suta? 'The' canfe of this itvarom was the infule ofered to Beacinct, fites of Eueigetes, whom Antionhus 7heos had diwerced à 3 xhom Seloucus, his fon by Arfinee; 甶mally pat to death. Sce Juthe, libe xxuit c. r. Juftr mentions that he wowh have Gub wed the what kimgtom of Sutucn., an. lefs he had been necalled by cillurbances ist Egygt: The tho thumand live liandred dantues, and fory thourand wents, I und in the nots cin Juilin, bat whence deduced 1 baew not.

Bactrias, and brought the whole under hid dominion, [In Perfis and Sufiana] he collected all the fobils of the temples which had been camied out of Egypt by \{Cambyres andid the Perfians, and conveyed them Back again to that conntry \({ }^{33}\); with all the treafures he had accumulated in his conquefts, and all the forces which had attended him on the expedition y all thefe he embarked upon the cañals \({ }^{34}\)

\begin{abstract}
- 32 Promatue Eucrgetes devicit Selucun; aronia fine bello et eertapume occupavit: a Taure uflue in Endiam; Bayer, p, G1. , Bayer moderates thie conqualt, and appeals to Then.". critur tidithe Adelatick narbze. But the tharble certanlily confirmis in a great degree the citution, which is from Polyamis.
\({ }^{3}{ }^{3}\). It ace for this favour to the natives that, fhe is faid to thave been fyled Entergetes, the beinefactor.
"y The tnfcription is here manifefty lyft Haperfest, and that aferatemby on account of - theit partof the tablet which wrak mutilated. Whe aire therekyre at liberty to conjecture what thete camale were; ownifiteat with the nature oof thet bounfies alluded to. . Chifhull looks to the canals on the Euphrates \(\frac{1}{}\) but let us refect, that the palace of Cumbyres was at Susa; thither the fypils of 'Egypt wore fent' liy the conqueror, and there they would be found ty Eurergetes, if they had root been temoyed by the Racedonims, tor the kings of Syria: Mucli notine is taken in milory of the traifures at. Sufa beirg plandered; but the Fpoils' of teibples, 'Eqyptian gods and fatures had little to, tempt the averice of the conquertre, and would have been moved to lithe purpofe, at: a great expencie! It ris highly: probabie, thexefere, thati Euergetes found them Itill at Sufa; and if we confider that "Suffana" was of all the provivices of the Fertian
empire, whe one moRe furnifhed miths, and roolt inkerfected loy canals, we fall have no dificuky in concluding, that idefe cumbrous deities were embarked upon that" caulal which united the Eudeens with the Musercan mear Suff; and thay they were brought by this flrean, now salled the Suab or Soweib, into , the Esphrates.inar 'Korna. From-Koma they would be conveyed up the Euphrates to Thapracus, or higher, and require no other land carriage bue fromi that point to the hay of Thiss. This would ocriauly be the belt and Iesft expenfive ropyeyance from Sula to Egrpt, and tiere could "be no otbér water carriage ublefs by the todaus to the Gulph of Perfia, and fơ ruuind the coctinent of A mbia into the Red Sea. y If \(\dot{x}\) could be provel from biftory : that "the Acetri, of. Energetes had cever circumuavigated Arabin, we miight admitt this ad the we dicf monde of conveyance; but I have fearchca hiftory in vain ca eitablifa this expelufion. "t it was containen in the point cf the tabied brokens we have much realon-toltiment the tof of; for fo perfuaded ann I of the autanaticity of the infaription, that I fhould admit the face without heftation, if found these. 'I catsonlronow and, that the camal, form Sufar tal the Eupirates, zand the cartiage thence up, to Titafiacus, afford the moft probable chice do ehis patage.
\end{abstract}

\author{
A P PWDDIX, NOM.
}

This, Tays Cofruas, yus the incription on the figure or tabletyas:
 part was broken off After that we copied what was whiter on the" chate, which was conaeced with the inferptionalieady siven, and tan tiases

After this, haviog with a frong hand compelled the tribes bordering upg my ownkgdom tolte th peace I made wat upor the following Ration shand after Teveral Gatles yeduced then to frbjection, :
 wher the chatige'.from the thita perton to the fret be caufal by Colmas or the inferyptiong," "mate be doubtul : We might well hupure Both infcriptions to run in the farf.
.. 3a Cosmas tas many cultous particulars of hefe countre haniff; as, the The Homerites are noe far ditant from the coattor bir Baria [Adcl] ; the rea between ibem is two days fathacrofs, this proves thatheplactespe Homerifes foriewhere"eato of Adenon the occail: 2. Bejond Hardara [Adel] the occan' is kallea Ziogium [Zanzibar tha Catre coât \(]\) - anct Safus; is a phace on tipnea coall ing that track. Thie feat whathor the incenfecountry [Ade abd Ader], and the country where the goid nime are th
3. Whe king of Axmin fends properperfonc there by means of the governoy bf the ingowa to twaifick for gold. Many merchants jois this caravan, add carribuseis falt, and irati, which they gachange tor some."They leave
 come and leave as onyh rold as, the y chife to


 proves that the Abyofiniatistraded in it atage as they dith dos not by fea, but indaridubugh their foutherneroyines. And the exchlange is Gmilar 'to moderin" practice', both on the boidessiof Abyfiniog and other tribes of Afriç. Montre:
 Ethoptra is nour fumpatis dhe rains lan for three months fron Fpiphi te Thothi, to at to
 themelvernom the Nite o Pate of thefe circumitanceg X have feen myfulfo znd otheys: have hard from the motchants who tradie in he country:
4.5: The great a mber of aupe procutedur: afl the merchante who trade in thet cometrin; a trace noticed equally by tue Periptis nom: 500 hundred years before Cofrias, and by Bruce r2oo ycarg after his age \(:\) It zisworthy: of remark that abpminan naves beat the fift. price in "all: the maikete of the calt, and"the: prefence feeme to have bren the fatue no ati:
 Coli Patrum.

Futthe ration of Gaze, next Agame and Sigue There fube dued and exacted the half of their property by way of contribution tor myown we \({ }^{37}\).

After therem reduced Ana and Tamo or Tziamo, Gambela and: the country found Zingabenee, Angabc, Tiama, and the Athaga, Kata, atu Semene, (a naror beyond the Nile, anong montains dificut of aceels, and covered with fow \(s\) all this region there is hail and hon and foow ro deep that the troops funk up to their knees. I paffed the Nile to attack thefe nations; and fubdued them. Inex marched againt Laltae and Zaa and Gábala, tribes which infabie nountans abounding with warm frings iotalmo alfo and Hege thete hikwife redured, and all the nations their neigh beupood.
Aften his proceeded agan the Tangaxta 40 who he towards the confres of Egypt there teduced, and compelled them to open a roat of communtation from this country into Egypt The next wibes I foboted we Annine add Motine who wete reated upon mountans dmof perpendigurg \(\sigma\) and sefa, a tribe which had

\footnotetext{
 pitzoo The Homerick cuftorn of taking hafaind leaving half.
 fateon reads ina parembeffo is no part of the inforiptiois, but as an obiferyation by C.fimals. But fhe fact is , true, Samen iap beyond the Eacizze:
\(\therefore{ }^{30}\) B Buee uttery denies the exiftedec of Tnow in Abyflita; but it does not quit 'tollow from this: hat fnow wa punknown fit former ares. Horace fays, Soracte fat nive candida, but the moderns obferye this now nefer hap. gens:" Lobo afferts that frow falls in Gamen
}
on Sámenc̀; but in ropy fmallquantities, and never lies, p. \(578 . F_{1}\) ed iPruce calls Loba a liar, but in yamy infancé indt mithout manifef injuftice the allows himfelf that Samen is a ridge cighum mile in extam; the highat part is the feve rect, where there was a kingdom of lows till withinthefe fen yeara:
aso it were pollitite to idenuifs this tribe with 了agola; it ropthe a great acquifion to gougriphy, Ohagotacs eradiy in, the praper places as puq be fecil by Bruce's. map.
retiled to a mountan abolutery inaccelible to andmys but furrounded the whole momstain and fat dow before the tompelled them formader; I then feleted the bet of ther monog Men, their wome heir fots and daughers, and tezed all their property for my om ufe

My next atrempt was uph Ravo, anjand tiberache fank incenfe cougtry a yegion without mon tains ow water shom the trae thenetrabed agan to the coaf, where] found the Solate, whom I'fubdred, mid gave then in charge ro grard the boat from pingest:

A1 thefe, nation, protected as they were oy mountaka almofe impegnable, thedued, ard refores the ternoreoto hem uon conditions, and made thent tibutary, othe tribes fubmited ale of theirown accod, and pad tribute upon the fane temms.

Befdes the completon of this, fent a feet and land forceg agaisth the Arabtes, andithe city of Kitedoyolis on the other hde of the Led Sea, redaced both to pat tibato and gape them whate to maintan the roads free frosa robbers, and the featrom piratesta, fubdung the whole coaftron teuke kome tomateat ro the ocomplirment of this bufnels I [had toosample to foow, eithex of the aricien lings of Egypt, or of myond fatrily, out wasthe


\footnotetext{
4x Aurabiats
42 Hye coart of Arabia, north of Wames; has betn notoriots for pitates and epetere in
 luge; we Shall fix whar xe come to the, copa of Arabia in ohe thind book' ; it coantot be fui from Vamou and the coor from this villige to Sabea qr Xomen. wha the fat of all the
}
 compodticest till the mans were mallemof

 25 far Sent: on aun yods See Peripho Maxis Egth P. Wi Eydforane Komé:
 nto obrcirity,

\author{
APPENDTX, NOM
}

For my fuccefs in the maderamug 1 nowr reum hay thanks to Nars, who is my father, and by whofe afitance I reduce all the nations from [Bactria on] the norths to be racenfe coalt on the fouth; ard from Liby [on the wef, to Ethopia and Safus on the enf. Some of thefe expeditions I entrufed to my officers; but nimof of them was prefent and commanded in perfon.

Thus having reduced the whole wond"s topeace under my own authonty, fame down to Adule, and facithed to fupiter, to Mars and to Neprune, inobone his protection for all that navigate \({ }^{48}\). [hefe
 of the ha Matris adilterio patrem petis.

54: From Alyyfluia to the Day of Zegta. Sanus ip manifenly a place on the coata of Adel.

45 The whole world ig' ahmed by many sonquerots for the world around them. Alexander avd the Romame aid not conques the whole worid, but uled the fane language.

\footnotetext{

It appears fulty from this pallage that Puevgets erigaged in thisempedion on the plan of his father philartlphus; for the exienfioul and protection of commerce, and chat
}
he wed wie whole coalt on woth sude the Red Sea, making them at feaf tributary; if nota patt if his .kingtom s: but it no wheve appeayo. that hin paled the Straits of Bab-el-Mandet. Though , he vifited the Mofyllitick marts, his , äpproael to them was noe by fea, bat through. the interior of Abydinia and Adel, as appears, by' his march from Raulo to' Solatè, which. matise on the coat, from his giving it in. charge to the nedives to preferye the peace of the fea. The execution of thefe defigns, with the opening a commanication inland from Abylinia to Syemé, manks the gradnefs and wifdom of his fyltem, as clearly as if we had a hiftory of his reign, and a detail of his expeditions. Of the latet there is not a trace remaining but this momument. It is thitit more extraordiuaty, that in lefe than feyenty jears all the notice of this expedition fhould have furk into filences aidithat Agatharchides hould fay nothing of this plan; but fo far as xelates to the elephians procured at Ptolemáis Thèront, Can this be hidnced as an argumene againf the reaity. of the marble ?' I think not; \#ad Ikrult it to its internal evidence.

But if the authenticity of the marble be ailLowed, what light does it not throwi on the
boanted: been employed on brh coats of the Red Seat and fiting on whim throne, in this place fonfecthed to Mars, in the tonty tevent year of my reign "7

\author{


}

Gaza, Geez butubpus, astas one oftre places frat mentioned ard Geezat very ar, hatad, Nontfacon Phay'Gda near Mofyon hatticed py Chinuts buthefe places ta the com mencement fem all betreen hae oon and the Tacaze on its feqh bourhood.
boafted difcoverics of the ptomes at proves, that whatever niglic be the prodidef of Titnotheries down the coat of Affity m : the reign of philadelphes, that ro commitere was eftabified uron it in the reign th his fon. . It proves chat the Grecks po Edype oid not vet trade berond the ftraits' of on the Moyllitich cothy thotigh they meditated the attempts mprove that they did not yet go to Aden but traded to Xemen within the the froits y and that oune object of this ex'pedition was 10 clear the Arabian coat of pirates, Frem Leuke Home to satiá; thatio, from the top of the Galph to the bothoni. Tn the thole account hot a word eleapos that -implies a trade with the marta of Arabia ou the ceran beyond the Riaikg, nor doestaford any reafon to belicge that the continent of - Arabia was yet ctrcumavigated, or the dif. Roverics of the Ptolemis brought in contact with thofe of Alexander.

Thas Las bean mydicemen for inforat. cing this mathe to the chomede of he reader) agreably to my defign of tracing the ditcoycrier of the ancents tep by fete and conclude this accouth with remarbing, that commerce rather fell gort that procesded a the following acigas for in foppod ats Sabota on dearaband act at docs th tbis materad on the arican fdege did not go fo low jnethe tegn of Philometor as in that of Eacrgetes. \(+t^{\circ}\) Chronoiogers afign 26 yearsto the rem. of Euergete But if a king womperd his meisa in Tune, for intaucs, and dedin Otcober: it might be 26 yaia in achroncle, and yet the zth would have conmenced. Chifullthe: pofes the to be the faet. Dodwell ruppofes Evergetes to have been crowned darighthis father's life times und we add, that an crron (ifitis fuch) in mambers, may be more readily mputed to a NiS. than made to fing aidh the mable."

> APPENDXX, No IT

Agame \(A\) govennent in Tige Monta , Lidole pi x Agatugnifes Jefamue gruce:

Sigue Brice mentions Zagué as a proviace, vol. in p. \(534 *\) ele it might be thought There from the places mentioned with it or Siguc for Sire zijoms spun.

年va. The province Between Adule and Axtra. Nonnofus Chifluyl. Axuma is in the province of Tigrè. Ava is ftilfoxud as a diftict of Tige

Tamo Thamo Tzama government of Tigrè near Agame Montaucon: It feems to be the king dong or Damot, But there is. atzana Hin Begender, Litholf. p. B4.
Gambêa, Gámbela. nThere is a Gaba noticed by tudolf, but nothing to roark its relation to Cámbela."

Zingabene The country of the zangues, Zanguis, or Caffes. Angabe fadtagabetce The kingom of Angot.
Thama, Tama, Tatican MS. Tigrè̀-nahon" a mere conjec ture. But Mahon, Macuonen, fgnifies a governor or government; Ludof, pe It is bute to feach for an equivalent, as it is poffibly only a repetition of Tiamo.

Athaga, Agos Mortf: Agows; Bruce:
Kaan Nothing octurs but the menton of it with Scmene.
Semene, Gamen, Semene Montf: The Tacazze is the boundary
 in:
APMWEIXQNo.

 tion metntions paring the Nile (Tacazre) to Semenc.

Lafinè: Stll foralled; Cofmas; Lafta.
Zaa. Still fo called Cofmaso Xpa, Shoa, or Sewa Ludolf.
Gabala, still fo called, Cofmas. There is kingdon of Bali in tudolph, p. '14. and a Gaba, p. 1 5. 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 fill two provinces of Abynina
Tangaita, Vo chaia the Frankincenfe country is not in Arabia but Africa;s Vo, ad Pomp. Mel lib iii c 8. Chimhn Bue the Tangaite ane a tribe between Abydinia and Egypt, i: e. at Senyar, Dongola; or Meroe, mof probably at Seanaakor Dongola. Dobgola is written Dangola, not unlike Tanga. But whother Dangola is an ancient name I cannot dificorer.

Metinè, Annine Nothntg occuts aicertain thefe phacea. The Infcription paffes from the northern frontier of Abyffita to the fouthern with thefe names between, noticing only that they are mountainous.

Séfea. Barbaria, coaft of Adel; Cofmas. Apparently on the mountains which divide Adel from Abyfinia. Sce Brabe, vol, iii. po 250 :

> APPENDIX, NO: IH

Raufo. Batbaria; Cofm. According to the Infcription itelf it is mand from the frankincenfe coatt of Barbaria (Adel), and Solate is on the coaft.

Solate Barbatia Cofnt Thee thtec places correfond in num ber. with the three on the Mofylitick coat mentioned in the Peripitus. The nodern maps have a Sol.

Arabites. Honcritess Colmas." But Cofmas is in an error. The Homerites are on the ocean; thele are the Arab tribes on the coaft of the Red Sea oppofte to Suakem and Abyfinia, as appears by the Xnfcription.

Kinédópolis. Hornerites; Cofmass But Cofmas is mintaken. It hes on the coaft of Arabia not far from Yainbo, between Leuke Kome and Sabia, agreeably to the Infcription itfelf. See Ptolemy,


Fitate Coant Not noticed as fich, but their piracies marked. Probably the Nabathềans or wild tribes ahove Yambo, alyays pirates, and fubdued by the dater Ptolemies and by the Ronans. They are pirates at this day.

Leuke Komé Leukogen, in the country of the Blemmyes; Cofmas. Another proof that Commas could not be a forger, for Leuke Kome is in Arabia, above Jidda, and he placestitur Ethiopia. It is the Hawr of dnville.
\[
A P P E N T X \text { NOH }
\]

Sabêa. The Honeriteśs Cofnus. Sut realy Tementrie Araba Pelix of the anclents.

Safuls At the extremity of Ethopta where gold called Tancharas is obtained. It lies upon the fame oceat as Barbaria (Adel), whete frankincenfe is procured; Cormas. By Ethiopialhe means Abyta -fnia, aud Safus murt be near Zeyla.

Adale. The pot of Abyfinia in the Bay of Maraah.

\section*{\(\because \mathrm{APPENTIX} \mathrm{E}\) NoIII.}

\section*{No. III.}

\section*{ETEVEAIOMMENOTOEETA天.}

THE readings of this excraordinary polyfyllable axe as numerous altoon as the editions, and the authors who have had occafion to cite it The corruption is evident to all, but no two agee a the correction.

The whole paffage fands thus:





 Vhros. Blancard follows Salmafius but in his correction, Ho Hóroy expov is aptuned without a hadow refemblance, and is as wrong In point of geography as criticifi." The Nenuthias of the Peri. plus has no reference to Prafum whatever; and the miftake of Salmafus arifes from fuppofng that the Mentuias of Prolemy and the Peripluss ore the fame; which they centaly are not.

Others read,

\({ }^{n} E i \tau \varepsilon\) 以

 reador

But Heny Jacos ads dio, that Pratim is not Nofabique but the Cape of Good Hope He can find no athority for this but, the eftmate of Marms, and Mamis mmetf corrects his excess and reduces his latitude of 34 routh to \(23^{\circ} 30\) o See Pol. Idb. i. \(\mathrm{c}, \mathrm{z}\)

Impreffed with the appearance of theredifgetties, I yenture on the following difufion with no common uneerainty, and litle prace tifed as am in the fience of correction Idecine the grammatical and critical part of the ingurys and wita to confine ny reflections almof wholly to what is purely local and geogaphica .
I. Firf then it to be obferved that our author bas cerainly not more than eight quaress of the heavers, or as teftoutd fay in modera languge eight points of the compars, the fame number a is narked Moon the embt frons of the Temple of the Winds at Athens, under fhe following appellations:


\footnotetext{
 cight oecar in the Peripitis, but that it has the norib, Dufis for the mote
}

Th the aphitation of thef, or the terms equivalent to there, the eriplis is by mo mode arcurate; of this we have a direc proof in ying tuwn the coafat Atomata, and in its neighbourhood, where, courchate are acurate; as toe are generally at leat it is imWhloto wely he poits of the perphus to the actual fate of the oale.
IT. Secondy, let gs examine the ponts of the compais foecified y the author this parage, and his maner of exprefing them;
 ng toxtewef andouth weft in the foregoing figure and here is
 dom. But let fuppore to be a hatical phafe, how is to de interpeted Africum verus fuperion parte? Altins quam Xficus Above the fouth wef e If thishas meaning in Greek what is to be undernood by abond "Is it more to the fouth or more to the wef? that is is fouth went went or fouth weft by fouthe The ofticulty which occurs here, anduces Dr, Charles Burney; of



In the next place how are we to undertany reip auty zy do du? Hope, accordig to the lesicons, has a fente of motion to a place. In Which form might re rendered difecty ta the weft, to the weft dirett The general ufage for this in the Periplus is Ers Noroy, p. 7 : eis avaroxp, ibid; but in p. 0 almoft modiately preceding the paffage



 above the fimanten; is aknown idiona. . \(\therefore\) The prinutive kenfe of mige, fems to be fide of it.
coaftlyng fouth weft and noth ean as we houtdexpen it in Englifi, or the courfe of arel along the coat in trouth weft titection.

IIf Thindt; me mant mquare naw phete exprefonas can be applied trany of their renfes to the anal geograhy be the coatt
 the Zanguebr hands, from the ditance fecified, wheh as athrty fadia fom the conf, equlto eight or ten mes, and cortefonding wh the difance of no other hands the par oftemoyage, of the three Zanguebar Ihands, Monfia the wha or futhemot may well be prefered from the account of diftuces athe Perptus, both prevoms and fubrequent And if we artan Mond, our next inquiry mut bo, how thits hes wht refect to the cont, the chat will fhew that it lies direoly eaft A fulficht catie to jumity the

 appled. Thave afinmed houboç for the pralan illads, or rather.


 eight or ten miles dikut from the codt "rhe coatt if rolf rus fouh wen, but if the to fandone coat for the illand, he runsmot fouth wef, but more towards the touth tan fouth wef. Now the is actually the courfe a vefol mif hold to ran fom Mombaç to Monha: It would not be foud divest, bat alitle to the routh of

\footnotetext{
62. The proofs will be tornd p. 53 et fegge tuph.
}
 it a Greck natitical phrafe, this I conclude is the dnly morpretation it could Weart, th muft be noticed likewife, that this expreflon muft




 fare the ratumefs so fay: Whe it ceantrot be, for whatever hes weff from Mombaya, orany point on the coat; muf lie inland on the. contiment of Africa. Neither oan it fignify the ifand itfelf lying eaft ath weft or the thre nhands taker together, for they lie neanty north and fonth. This teduces a commentato to his late refurce, which is efther to fay that dorm issa falfereading, or to find another fenfe for if, if mut be retaried, I confels this dilemma mof candidy, and have no more confidence in the following fuggeftion, that juf Thed as the wader fhall pleafe to give it.

I donot difard dorug but oive at, another fenf, as the oniy alernative lefto my choice, ". It has been noticed in the preceding work hite ouris and aparain, befides their literal meaning of wet and ena, Haye dowife a relace fenfe given to them by mariners, in which the are depued to the general tendency of the voyage rather: than to the guarters of the hearens, in regard to the thip's place, or the dadividal point where the maniner is at the moment he ts focakig. It o owing to this wat when a veffel is proceding from Hofambique on her voyage to India we read in her journal that The fatied to the eat ward, though undoubtedly her couffe was north or noth eafitor if ie is proceding tothe Cape, it and fhe failed

\section*{ADRERDTXNOM}
 An exprefon adopte on or ow coafis allo, and quapo on crery other a 1 can oow hew that this the language of the Perplua beyd dipute to (ats, 3 ) whenthe athor s delcrib




 4 the coant which facceds to dimynce, the fes ont at feadreoty "to "the reeft [founf cand datled palafroondoo 1 by the


 celve, the voint of the compafs, ma mothe coure of a yefte in that directon. And ff we nowng whato the meang of \(\Delta\) uriv, the nap will hew in mint, that Geylondoes nothe WeSTfrate the conchent butSOUTH tr onthis evare that wht o render \(\Delta\) yow Touth, the pafage before us remarking ttat the thee Zanguebar nands lie dieety SOUTH from Nombarar If this be rejected, do not Ce bow to ha any pplation for the term weft, inirelation to any pat of the coan or to any other inad in the neighbourhood.
IV. We come now to the word whel is the cave of all this
 agreed, that Menthias in fome form or other ts to colleced out
:of the latter patt of the polyfyllable. I fhould have wifhed to confider Menûthias as an adjective rather than a fubftantive, Menuthefian rather than Menuthias. In vodiou I am led to ninf \(\omega v\), both by the context and the letters, for \(\nu\) yoiw \({ }^{\prime} \omega \rho\) is \(\nu y_{n} \delta^{\prime} \omega v\) in the writing of MSS, and \(\nu\) is often turned into \(\mu\), not merely by an error of the copyift, but by coming before another \(\mu\). If this be allowed, the change of \(\delta\) into \(\sigma\) feems to give variwu with great facility.

Let us then examine what the geography requires. It requires that Menûthias, if it is Monfia, fhould be defcribed as one of the tbree Menútbefian or Zanguebar iflands, or it Ghould be defcribed as the foutbernmof of the tbree Menîtbefian or Zanguebar iflands. This is the fenfe If want to elicit from the corruption; and with as little change of the form as poffible, I propofe the following conjectures:




But the form I prefer is,



In which cafe \(\dot{\alpha} \pi \alpha \dot{v} \mathbf{v i n v}^{2}\) may have been dropped by the repetition of \(\dot{\alpha} \pi \pi \nu r \underline{c}\). And in thefe feveral readings I hould refer vigiov to the Pyralaan inands immediately preceding, and interpret the paffage thus:

Almoft direstly fouth then of ibe [Pyralaan] ifands you meet woith. \({ }_{4}{ }^{\text {the }}\) ifland Menutbeffas; the laft of all the iflands.
\({ }^{3} \mathrm{H}^{\circ} \eta^{5+}\) is a particle frequently afed in this manimer by the author,



 others, that will bear a fenfe of any fort.

I an fenfible that it is no true canon of criticifm to bend the words to the fenfe we wifh to find; 1 confofs freely 1 am not fatisfied with any of thefe corrections, for in this very page the author ufes
 weft; and it is not eafy to conceive why he fhould have ufed diow here inftead of yórov, if it were to fignify the fame point. The only defence I can make, is, to repeat, that no illand on the coaft can lie weft from the coaft, and if it is weft from any other place, that place I cannot difcover \({ }^{\text {s5 }}\). I fubmit, therefore, 'the whole of this difcuffion to the camdour of the reader, and thofe more pratifed in critical corrections, with fome confidence that if I have not completed the folution of the difficulty, I may have afforded grounds for future commentators to proceed on.

\footnotetext{
34 "H8\% is eafier to conceive than to render; Ablinc in paftages of this conftrucion follows more readily than mox, continuo, \&c.
 it was juf day.
\({ }^{55}\) The only poffible relation in which I can conceive fieay to be employed, is; in regard to the fhip.'s courfe when fhe is running down the zweftern fide of the Zanguebar inlands. But fuch a courfe would never be expreffed by
}
 Periplûs; for if it were, the courle down the coalt of the main, oppofite to Z"anguebar mufl
 as the hip is going down the caftern fide of the continent; bit this is met fo expreffed, it
 of the courfe is marked, and not the Mip's courfe on the eaftera fhote.

\title{
A.PPENDDX, No. III. \\ 75
}

I now read the whole paflage thus:

\section*{Hulfori.}










 nal. xaraidwich

\section*{Proopfed Text.}













\section*{Tranfationo}
. . . . Next fucceeds the anchorage of Nicon, and after that, feveral rivers and other anchorages in fucceffion, difributed into correfpondíng courfes of one day each, which amount to feven altogether, terminating at the Pyralaan inlands, and the place called the new canal. From the new canal the courfe is not directly fouth weft, but fomeching more to the fouth; and after two courfes of twenty-four hours [in this direction,] you meet with the inland Menuthefias, lying almoll directly fouth from the [Pyralaan] inands, at the diftance of about thirty fladia from the continent. Menûthefias itfelf is low and woody.

If the queftion were now afked, whether \(I\) am fatisfied with this interpretation myfelf, \(I\) could not anfwer in the affirmative, for the fende I wilhed to obtain was, that Menuthias was the moft fouthernly of the Menuthefian illands; and this fact I am not able to extract from any pofition of the words, or any reftoration of the paffage which I have to propofe. I fhall therefore only add fome emendations of the paffage propoied by Dr. Charles Burney, who, however, ftill doubts whether they ought to be deemed completely fatisfactory. If his correction fhould meet the opinion of the learned, I thall fubfribe without hefitation to his. reftoration of \(\hat{\varepsilon \pi} \pi^{\prime} \alpha^{\prime} \% \alpha\) ro \(\lambda\) में for


\author{
5s Vant Lect. Mugincówh Bafil. \\ 57 K
}
```

s8 'Er>' <>y, Bal.

```


\section*{APPENDIX, NO. MI.}
 SOUTH.

\section*{Obfervations by Dr. Charles Burney.}
 \(533^{-}\)p. 20.1. 30.






In editione Blancardi, Amftel. 683 , in octavo, 15. 15. 4-44




In editione Hudfoni; Geographia Vet. Scriptores Graci Minor. vol. i. p. 9.1. 26.-p, 10. 1. 2. \({ }^{60}\)



It is furprifing, that all the editors fhould have pafied over this paflage, which is wholly unintelligible; nor will the fuppofition of
so The refercnces in thefe renarks are made to Hudfon's ebition.

\section*{A P PEND I X, No. III.}
rins vifou being underntood, between \(\mu^{\prime} \chi \chi \dot{\rho}^{\prime}\) and Inv, \(\lambda \alpha \alpha^{\prime} \omega{ }^{\prime}\), remove the difficulty, of which you appear to have been the firf obferver.
 an illand.

The article is improperly omitted, in the latter part of the fentence. Hence the paffage miay be thus read:

The word raw \(\hat{\eta}\), has abforbed rai tris, which might eafily happen, from the fimilarity of found, and accent on the final \(\boldsymbol{\eta}\).



 would there terms, if they could be united, explain the fituation of
 which precifely expreffes the pofition of Mentuthias, with refpect ta:


To remove all doubt about the truth of the correction, the words. of Ptolemy may be adduced:
 avofur Mevoulías, p. i 3 Ie.

It may allo be mentioned, that \(\Lambda \dot{\psi}\) is the name of a wind; and not'of the coalt, oxer which Africus blows. What poffible explanation





 Salmafius acutely difoovered the name of the fland Menuthias;

 the author of this Periplûs was acquainted with the Promontory of

 fufficiently refemble the old, for it to have juft claims to admiffion.

Henricus facobius is fill more undorunate in his conjecture



 found, defend this ufage of with volov. This author, indeed, has,

 in this Periplûs.


 vinoos, as you obferve; which would greatly invalidate the conjec.
ture, even if the following \(\tau \alpha \pi\) ewn did not render it inadmiffible.--It is, right to ftate, that the word vnoiov occurs in this Periplûs, p. 22.


Salmailius appears, as has been mentioned, to have rightly traced the name Mevootracs, in the latter part of this Atrange word. In the former, éfifughiwe, feem to be difcoverable the disjoined traces of סrateivivora \(\dot{\eta}\). The letters are ftrangely jumbled ; but it is to be recollected, that in the very next line; where Hudfon gives ofadiay


Let the author himfelf defend this reftitution. Firft, for darest voưor.

 To conclude,' the whole paffage :lhould probably be read thus:






No. IV.
Ancient Maps of the World.

THREE plates are here prefented to the obfervation of the reader, two of which are original, from Cofmas Indicopleuttes; 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 earlieft in point of time, requires our confideration firft, and in this map it will be feen with what propriety the ancients called the extent of the earth, from weft to eaft, length, and the extent, from north to fouth, breadth. Artemidorus \({ }^{0 x}\) (ro4, A. C.) is faid by Pliny to have firt employed the terms of length and breadth, or longitude and latitude. The dividing of thefe 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 vaft fouthern continent or hemifphere, placed as it were \({ }^{62}\) 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 contradifinction to that which they knew and inhabited themfelves. . It is this fuppofition which gives rife to the expreffions of Manilius.

\footnotetext{
\({ }^{68}\) See Agathemeras, in FIudfon's Geog. \({ }^{62}\) Pom. Mcla, lib. i. c. I. See the map Min. cap. is. Strabo, lib. i. p. 64. Ptol, itfelf in Gronovius. lib. i.
}

Altera pars orbis fub aquis jacet invia nobis, Ignoteque horminum gentes, nec tranfita regna
Commune ex uno lumen ducentia fole,
Diverfafque umbras, levâque cadentia figna,
Et dextros ortus calo fpectantia verfo. Astron. lib. i.
And the fame fentiment in Virgil.

It is this fuppoftion alfo which gave rife to the belief of circumnavigations which never took place; for Mr. Goffelin proves that the yoyage of Eudoxus cuts through'the centre of the great continent of Africa, and Hanno is carried to the Red Sea without pafing the equator. This it is which exrends the title of the Atlantick Ocean, to the eaft of Africa as well as to the weft, and makes Juba commence the Atlantick from Mofyllon. All this is natural, if the contineat of Africa be curtailed at the twelfth degree of northern latitude, and the toyage fhortened by about eighty degrees in extent.

But it may be proper to call the attention of the peader to the view of this fort of a world, as applicable to the Phenician expedition of Fferodotus. A veffel failing along the fouthern coalt of fuch an Affica as this, has in theory the fun upon the rightrhand of the navigators for three part's of the voyage, and this contitutes the circumftance as the grard occurrence of the expedition. But were the fame veffel to run into latitude \(34^{\circ}\) fouth, the real latitude of the Cape, the face daring which the fun would be on the tighthand,
hand, is a point in comparifon of the other courfe, and the pheno menon would doubtefs 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 alto well worthy of attention, which is the fource of the Nile placed in the fouthern:hemifphere, 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 caufes; for it was either known that this 'hypothefis' cut Africa too hiort to afford a place for the fources of the Nile, which were carried to an indefinite diftance fouth by the early geographers \({ }^{63}\), and therefore a fuation fouth muf be found beyond the océan in the other hemifplere, or elle it anofe from the report of the Nile in the early part of its courfe, running through a fea with which it never. mixes. This is a circumftance which is now known to take place on its pafimg through the Lake Tzana or Dembea, where Bruce affures us that the coutfe of the fream acrofs the lake is dininctly vifible from the high land in the neighbourbood.

Nothing farther worthy of offervation occurs in tuis map, but that it cuts fhort the peninfula of madia well as Africa, and places Taprobana or Ceylon as it appears in the tables of Ptolemy: "It unites allo the Cafpian Sea with the ocean, and gives a circumainbient ocean on the north, as navigable as on the fouth, part of which the Argonauts did navigate! and all but the whole was fuppofed to have been nawigated, Jy Pliny. It was this fuppofition which brought the Seres on the notth, almolt as nearly in contact with the Calpian. \({ }^{\text {cs }}\) Sea; as Mofyllon was with the Fortunate Ines on the fouth!

\footnotetext{
6. To \(32^{\circ}\) or \(13^{\circ}\) fonthiby Proleng. of See the concluding pages of the Priplas.
}
how many obfacles has real navigation difcovered, which factitious navigators furmoninted without a diffculty?

\section*{II. The Map of Cofmas"s.}

Is fo poor a compofition, and fo wholly the conception of his own mind, that in would be utterly unworthy of notice were it not the 'original production of the monk' himfelf. The veracity of Cofmas, both in regard to what he faw and heard, is refoectable, as we fhall thew hercafter in his account of Ceylon ; but his hypothefis, as may be feen, makes the world a parallelogram with a circumamBient ocean, and the rivers of yaradife flowing on che outhde; while the vicifftude of day and night is not caufed by the revolution of the earth or the heavens, but by the fun's difk being obfcured by a mountain on the north. Me alfo has a Caniat Sea that joins the ocean, and a Nile that runs under the ocear, pringing from the Ghon of Paradife in another world. The ignorance of an individual 'is no e atonifhing in "any age', but the ignorance of Comas is extraordinary. in the fixth century, when we muft fuppofe the writings of Ptolemy would have been known to a monk of Egypt, and when that monk refided fome raars within the tropick, and mult have feen the fun on the noth as well as on the fouth.

\section*{IIL. The Map of Al-Edriffi:}

I owe the knowledge of this map to the liudnefs of Dr. White the Arabick Profeffor at Oxford; there are two Arabick, os copies of

\footnotetext{
65 See plate in the accdunt of the Aduli- of Pocock's, No. 375. IEjira, 906, A. D. sick Infcription, \(\because \quad\). 1500 . It is from the lef that this map is
os One of Craves's, No. 3 S37. Anocher taken.
}

84 : APPENDIX, No. TV

Al-Edrifi in the Bodleian, and that from which the oppofite map is taken is beautiful and adorned with maps for almoft every chapter. This before us is a general one, curious becaufe it is evidently founded upon the error of Ptolemy, which carries the coait of Africa round to the eaft, and forms a fouthern continent totally excluding the circumnavigation into the Atlantick Ocean. The learned. Hartman fuppofes that Al-Edriff's account goes as low as \(26^{\circ} 20^{\prime} 0^{\prime \prime}\) fouth, to the river Spirito Santo. It may be fo, for Daguta is his laft city, which is but three days fail from Gafta, and Gafta is but one from Komr, the Illand of the Moon, or Madayafcari' '(See Hartman's AlEdriff; p. If 3.et feqq.) This point and Wak Wak or Ouak Ouak feem to baffle explanation, and Hartman confeffes he can find no room for the latter. But with all its fable, it is fall the kingdom of the Żinguis, (Haitm. p. 106.) and if fo, it:muft: be Benomotapa, which lies inland, and which Al-Edrifl 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 Mate tenebrofum, or Sea of China, (p. 10\%\% Bakai another Arabian. ',

That the Komr of Al-Edrift, the Ifland of the Moon, is Madat. gafcar I have no doubt; becaufe in the maps which detail the conaft; I found the continuation of this illand oppofite to the continent' through feyeral chapters, in all which parcels; Dr: White affured me the name of Komr was regularly repeated; and though Hartman is? by this made to doubt concerning, Saranda, Serendibro or Ceylon; (p. 116. et fegq.) there is no ground for hefitation, the etror originates: with Ptolemy, and the neceffity of carrying round the lower part of Africa to the ealt, compels thofe who follow his tiypothefis to throw:
up Madagalcar nearly oppofite to Ceylon, to bring the Indus "into the Gulph of Perfia, and the Ganges over the head of Ceylon. Whether all thefe inconfiftencies would have appeared as grofs in detail as in the general map, I cannot fay; my want of Oriental learning, I regretted, did not permit me to examine the MS. myfelf, in a fatisfatory manner, and I had intruded too far on the adiftance of the profeffor. To judge by Madagafcar and the coan of Africa, I ftill think the fearch would repay, any Crientalift who would purfue it; and when Sir William Oufely has finified Ebn Haukel, what better fcene for the employment of his fuperior talents than Al-Edriff, whom we all quete from an imperfect tranfation, and whom we hould know how to appreciate, if the drols were once feparated from his ore;

The courfe of the Nile is fill more hyperbolical in this author: than in Ptolemy whom he copies, but he has an inland Cafpian as. well as that author, and of a better form. To compenfate this, how * ever, he has his magnetick rocks which draw the iron out of veffels, an eaftern fable as xegularly at the limit of Oriental knowledge, as Anthropophagi fixed the boundary of the Greeks; while his termination of the coalt of Africa at Daguta wherever that may be fixed, proves that. little more had been done by the Arabs of the twelfth century, towards profecuting the difcovery of the coaft to the fouth, than by thofe whom the Greeks found there; or by theGreeks themichres.
- The Arabick names of, this map, now fupplied by cyphers, have been tranfated by Captain Francklin of the Bengal Eftablifhment, whofe merit as, an Oriental fcholar is fufficiently eftablifhed by his Fiftory of the Revolutions at Delli, and who has repaid the inftruction of his youth, with the cordiality of a friend.

Numbers and Names of the Cliart from the Arabicin, by Captain Francklin.

No. 1. Mountains of the Moon, No. 23. Belad Mufrada. and fources of the Nile: 24. Belad Nemaneis.
2. Berbara.
3. Al-Zung.
4. Sefala.
5. Al-Wak Wak.
6. Serendeeb (Ceylon).
7. Al-Comor (Madagafcar).
8. Al-Dafie
9. Al Yemen (Arabia Felix)
10. Teliama.

1x. Al-Hejaz (Arabia De ferta).
12. Al-Shujur.
25. Al-Mulita ú Sinhajeh:
26. Curin (Karooan of Gibbon).
27. Negroland.
28. Al-Sous Nora.
29. Al-Mughrub Al-Amkẹen.
30. Afreekeea (Africa),
31. Al-Hureed.
32. Seharee, Bereneek (or Defart of Berenicè).
33. Miffar (Egypt).
23. Al-Imaina."
14. Al-Habelh (Ethopia).
15. Al-Nuba (Nubia).
i6. Al-Tajdeen.
7.'Al-Bejah.
28. Al-Saueed (Upper Egypt).
ig. Afouahat.
20. Goważ.
21. Kanum.
22. Belad Al-Lemlum.
35. Al-Irak:
36. Fars (Perfia Proper).
37. Kirman (Carmania).
38. Alfazeh.
39. Mughan.
40. Al-Sunda.

4r. Al-Hind (India).
42. Al-Seen (China).
43. Khorafan.
44. Al-Beharus.
45. Azerbijan

No. 45. Azerbijan (Media). 46. Khuwarizm.
47. Al-Shafly':
48. Khinkect.
49. Al-Sefuti

50, Al-Tibit (Tibet).
55. Al-Naluz Izz.
52. Kurjeca (Georgia).
53. Keymik.
54. Kulha;a.
55. Izzea.",
56. Azkuf:
57. Turke'h
58. Ituxâb.
59. Buighar (Bulgaria),
60. Al Matenah.
61. Yajot (Gog)...
62. Majooj (Mazog).
63. Afiatic (Buffia).
69. Bejecrut.

Nia. 65. Al-Alman.
66. Al-Khuzzus (Cafpian Sea).
67. Turkea (Turkey).
68. Albelan (Albania).
69. Makeduneeah (Macedoniaj.
70. Balcic Sea.

7I. Jenubea (probably Sweden).
72. Germania (Germany).
73. Deamark.
74. Afranfeeah (France).
75. Felowiah (Norway).
76. Burtea or Burtenea (Britain).
77. Corfica, Sardinia, \&c.
78. Italy.
79. Ahkerineah (part of Spain).

\section*{DIRECTIONS то THE BINDER.}
I. The Portrait of Vafco de Gama to front the tide page:

This portrait is taken from the Portuguefe manufcript of Reffencle, in the Britifh. Mufcum, and by the account of Faria y Soufay (vol. i. p. 28 I.) anfwers 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 Chriftmas Eve, having been Viceröy three " months; was of a middle fature, fomewhat grors, of a ruddy complexion. "He is painted with a black cap, cloak and breeches; edged with velver, "oll /aj/hed, thistigh which appears the crimfon linings the doublet of "crimfon fattin, and over it his armour inlaid with gold:" : If this defcription be from the portrait at Goa, we have here probably a drawing from the picture, as it correfponds in every particular except the naifes in the cloak,
11. Chart of the Red Sea, to front Book II, p. 69 .
III. Chart of the Coaft of Africa, to front \(\mathfrak{p}\) ini.

IY. A drawing of Adult and the Chair of Pcolemys, Exc. In the bottom of the plate is a general plan of the World, both from the MS of Connas Indicopleutes, publifed by Montaucon, (tom i, p. 888. Nora Collectio Eatrim, ) to front the differtation on the Admlinct matble, Appendix \(p\). 50.
V. A general map of the world, contructed for Potmponius Mela, to front the account of ancient maps in the Appendis', p. 80.'
VI. A general màp of the world from an Arabick MS: (in the Bodleian Library) of Al-Edrift; commonly called the Nubian Geographer; this map so font p. 83 . Appendix.

\section*{ERRATA.}

Yage '3: Linc, e. fur work read journal to. notce \(7 \cdot\) for oungor read "Opros
1.5. Ïne ult. dele only
25. \(=\) - J. Jar Agatharcides readd fyathaichides




69. Fi YiIl affer Actannai infert Aròmata

B4: Jine 4 fort that is from Berenicè read that is, lies fooo lladia from. Berenice penule. for Hefh rad trabenh
98. notc 73. - for Turanta read Tarata
23. note 74' after fitter add days
125. Line I 4 - for Teparä read Ta-péra

135 - 15. for Morro Cabir red Morro Cubir
140. Fo for Aden raulAdea.

175:- 2. for Necho read Neco.
196. - 8. for 5525 cead l 52 I

2opz Hiee 2. for map and elart read map or chart'
223: - 2 2" after time infert it
to for' other tribe red other, a tribe

\section*{APPCNDIX}

31. Wite 5.yor Capean read Callean

mi:

\section*{\((00 \because)\)}

 "Eגnma ought to hare been printed at the end of the"futa book.:"
P. 74 note tre the note ought to be citad.

 Eng-edi pr 79.
P. 86 note 48 , m
in Mre Townleyt MS of many hes the chatafer of beta (as MSS.into He Hence the fuctuation in Pokmy of and.s. which ought alivafa to be or or which are both the fame and aifuen to one twelfh or fire numute the twelfh of Tatro.

00045818

Digitized with financial assistance from the Government of Maharashtra on 15 March, 2016
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[^0]:    x Perhaps never to the Romans but to the Greoks of Egyp puder the power of the
    

[^1]:     Xug:is p. 7. Sec infra.

[^2]:    3 We are wamed agant the connection of: Agatharchipes hys it is not fom the colour
    
    
     the fea of Erythas, the ocean, whinhtaks remembered that Im, Suph of the Ahbrews is its name from king Erythas ackerang to the the weedy fag and Jobo affers that Sum
    
     ligence. See wote, ibid : bothagree in fup- the fource of the et, mology, batit is nat un-poling Edom, Red, to be the true etymatogy dumpiay onotice, the fen of Edom, of Exal, the Xdamen Sua,

[^3]:    

[^4]:    8"EqXxiof...

[^5]:    72 Nadir was glad to componnd with thefe tribras, to let him pafs unmolefted with the plunder of the unhappy Mahomed Shah.

[^6]:    ${ }^{4}$ See Hyde Rel. Vet. Perfarum, cap xxiii. who is half difpoled to make Scylax navigate the Ganges on accoust of its caftern direction. He befitates only becaufe Scylax muft have returned to the north again fiom C. Comorin to furvey the months of the Cudus. See Weffeling ad Herod. Jib. iv. p. 3 co. note $34^{\prime}$.
    ${ }^{4} 4$ Hyitaipes father of Darius is the Gufhtafp of the Zeudevefta, and king of Balk or

[^7]:    x5. What the fable is of the ante which: turned up gold, and the manier of collecting it by "the natives, I capnot deternine ; but it is poffible, that as our knowledge of 仿dia increaless it will be traced to its fource; and one thing is certain, that it is a tale exifting: from the time of Herodotus to the age of De 'Thon ;' it is countenanced likewife in'the Letters of Dubequius, who faw one of thefe ants [gicas] fent as a prefent fromothe king of Perfia to the lorte: See Lacther, tom. ini. $\mathrm{p} \cdot \leqslant 39 \cdots$ Another fable, totally diffonaat to the ordinary manners of the Xindoos, Ithell give in the wordb of the hiltorian, ins se firesej;
    

[^8]:    ${ }^{22}$ Bruce faý, Dicgathenes and Denis, fron Ptolemy king of Egypt, vol. in pe 46 t . This feems as if he followed French authovity':
    which minded him, he is not ia the babit ar citing his autherities:
    ${ }^{2} 5$ Lib. ii in in intioy p. 7 ol

[^9]:    24 Strabo, lib. xr. p. 709 . an imputation on Megathenes, which the good father Paolino is very unwilling fould attach to him. See his Diflertation Deveteribus Indis, in anfwer to Augutinus Georgius, anthor of the Thibet Alphabet, p. 12.

[^10]:    as Shanfkreet, or Sanicrit, is the mode of writing this word, which has prevailed among oar Eaglifh writers. I always prefer the moit popular, but Paolino writes Sams Crday lingua perfecta, p. 258. or Krda $=$ perfecta, Sam $=$ fimul, coèval with creation.

[^11]:    tris, cateris purauth, the king, worhipped Baechas, the people on the coaft followcd the rited, po the Arobiansi, The ling wore the garment of Thdia, the people (on the coait) that of 感e Arabians ate add alfo, that Hert calce was vorflipged; that tis, "Bahi, the In diantzeroules. Whence both Paléogon, and Palefinoondus; . Thens, however; ought not to be afferted withous 安iving, due weight to Paolino, who derives Palémondus foom Pa rafhri mandata, the kingdom of Paiafliri, aind Paralhri is the Yidian Bacohug.
    27. He makes 6 it 625 miles, without menstioning length ar breadth; it is in reality neat 280 mites long a a ria 38 bróad; but pio: lemy extends it to more than 965 miles from north to fouth, 759 from weit to cant.
    ${ }^{23}$.Sce Harris, yol i. 383 : aud Ramulio.

[^12]:    75 Luc. He vera hiftoria, i. cap. 3. prabuoy' fovcreighty, is hard to determine, aframed the
     avotic 7 in indoboon, Wheffling in lib. ii. 107. Diod.
    ${ }^{30}$ whendxri, though there he nothing in this word to raife admiration in generel, but at the Arangenefs of the circumtlance, how a king of Pallióthra foovid know enough of Greeks to be ford of the nation: there is fill a fecret allufion of much curionty; which is this, the native chiefs who raifed themfelves to inder pendeice on the ruins of Syrian monarchy, (whether from the number of Grecks in the ean, or from the popularity of the Grecian
    title of dnanans; and this term is nill found inferibed in Greek letters upon the coins of the firt ufurpers of the Parthian dynaft-". See Dayer. p.. 105, It feems, Ulerefire, highly probable, that the inventor of this tale of lambutus knew that fome of the eaflera potertates were ftyled lovers of the Grecks; and ho has ignorantly applied this titic to a fovereign of India, which appertained properly to thole only who reigned in the north of Perfia. This feents an additional proof of the impondare the author knew a curious piece of fecret hiftory, but did not know how to apply it.

[^13]:    .32 Paolino was a Romifh miffonary in Tra-. vencore, foy thirteen or fourtect years; his Nork was publifhed at. Rome: he is fometimes

[^14]:    ${ }^{32}$ P. Luigri Maria de Gefu, a Carmelite, afterwards Bp. of Ufula, and Apokolick Vicar of the coalt of Malabar, coming round Cape Comorin in a native velfel, was carried over to the Maldives, and thence to the coalt of Africa: Paolin. p. 83. Annius Plocamus. was carried in a contrary direction from Arabia to Ceylon; and in fact, whenever a veffel, on either coaft, is by accident forced out of the limit of the land and fea breces,

[^15]:    34 The Nagareet drums, "fo often noticed by Bruce, are difcoverable in this work.
    , 3s It is with much regret that I confefs miy neglect of this author, foom whom I might have corroborated many circumftances in the ' .voyage of Nearchus.' A carfory perufal had induced me to view his crrors in too ftrong a light; if juftice be done to him on the prefent seview, it is no more than he merits.
    ${ }^{33}$ Diodorus fpeaks of Agatharchides and Artemidôrus, as the only authors who have written truth concerning EgSpt andethopia, Lib. iiiass.
    ${ }^{37}$ In confimation of this alferion; ive may mention'a pafage, lib. iti, p. 208 . Diod where. an allufion is evidently mane to the feparation of the waters of the Red Sca, as recorded by: Mofes; it is received in this fenfé by Grotius; Bochart, and Wefeling'; and if this 'was in Agatharchides;' it could hardly have becos ornited by Photias, a chtiRian bifhop! if it was not in Agatharchides, it is plain that Diodorus joined other authoritics to his. This, is given as a conjecture, but it js of weight: ".

[^16]:    ${ }^{38}$ Lib. xvi. p. 769.
    lived in the reign of Ptolemy Lathyrus, aned
    39 Diod. lib. iii. p. 205. not. кa入spívra \& \& . 169, A. C.
    but Strabo cites both, p. 7 69.
    40 Id. 774.
    ${ }^{42}$ See his culogium in Pliny, lib. ii. c. I12.
    ${ }^{4} 3$ Hipparchus is later than Eratofthenes.;
    $4^{1}$ There are two Artemidorus's of Ephefus. he is fuppofed to have lived to 129, A. C. See Hoffman in voce. This Artemidorus

[^17]:    4r. What oredit Timofthenes deferves is dum. tious, as Pliny mentions, 'that be makes the ' Red Sea only four days fail in fength andero mood, if I undertland the pallage. Lib. vis -9 33.

    Secinfra.
    ts Brace faysg. in the reign of Ptolemy TX. 100, A. C. but dote nof lay a word of the contents of his work, i 467 .

    43 Sotresimes fappofed to be Madagafár.

[^18]:    as Great moderation is due in fudging all wixiters whe freak of a country in the firft inftance. Thinge are not falfe becaule they are frange" and an example occurs in this author, which ought to fet rafh judgenent on its guard, Agatharchides mentions the worm which is engendered in the legs, and is wound ont by degrees. Plutarch ridicules the ehertion, and fays, it never has happened and never will. In our days every marinerin the Red Sen can youch the truth of the fact; and if Plotarch had lived to be acquatoted with our illutrions, Bruce, he wo Him that he cainied with him the marks and effects of this attack to the grave." See Teftimonia. Agathar De Rub Marty Hudfon, po, to sue allo Diodorrus 3ib, ili pe 199.

[^19]:    52 The fphinxes are fuppoled to be apes by Wefleling, and from their tamenefs it is probable. The crocotta I tranflate hyena, becaufe it is faid to be between a wolf and a dog; from the mention'of its imitating the human voice, it may be thie Shackall. I cannot help noticing that the animals enumerated by the author are all nemed in the fame manner on the celchrated Paletrine Molaick. Hardoxin thinks that the diftinction of: thefe fphinses from the common ape, was in the face, frooth.

[^20]:    55 I am not certain whether this relates to prodigies beyond them. the coalt within the gulph or without, but he mertions the inlands at the ftrate and the
    
    

[^21]:    s $^{8}$ It fhould rather feem from this that the road from Coptus to Myos Hormus (which was the nearelt) was more frequented than that to Berenice, and that the latter was never snaterially in ufe, till the time of the Romans.
    

[^22]:    iss So Briuce, vol. i. p. 408. quotes Ifiaiah, str. 14. The merchandife of Ethiopia and of the Sateiens, metn of /.aturé, as currious, foṛ according with this paflage, in our author, as with the teftimony of their mercantile pre-cminence, D'tuph incbaim. The rern for Ethopia, in this paflage, is Cuft, which means fome tribe - ff Arabia, and not the Ethiopians of Africa.
    ${ }^{62}$. Strabeo makes Larimnus an odôyr, ivadésatoo Aup:яqua: svi. 778 .
    ${ }^{63}$ The fragment of Agatharchides preferves, at mof valuable record in Photius which is loft in Diodorrus and Strabọ.' Strabo euds-with

[^23]:    6s Strabo 'from Eratofthones and Artemidorus, confirms all this fplendour, and almolt repeats the words of Agatharchides, lib. xvi. p. 778 .
    ${ }^{66}$ Harris, or Dr. Campbell, after talking magnificently of the commerce of the Ptolemies with India, at laft confeffes, vol.1. p. 432. that the difcovery of Hippalus is the firt certain date of a vifit to that country. It is

[^24]:    manifef from the whole of this account bet fore us, that the Sabêans did go to India, and that the fubjects of Ptulemy did not. It is this monopoly that made the riches of Arabia pro verbial.-Isci beatis nunc Arabum invides gazis. Hor. Ode 29. lib. i. where my excellent frierd and patron the archb:foop of York, reado, beatus nunc, which gives a beautiful turn to the whole Ode.

[^25]:    ${ }^{67}$ Sce Harris's Voyages, vol: z. book i. c. 2. compared with p. 42 Y . This work is quoted as Harris's, but this part of it, in the fecond edition here referred to, is by Dr. Campbell; ledge.:

[^26]:    68 The authority of Agatharchides is fo often joined with that of Eratofthenes by Strabo, that it is highly probable it contains all that Eratofthenes knew, with the addition
    of his own information. See Strabo, Lib. xvi.
    
     TlOng.,

[^27]:    ©9 It is not extraordinary that theep thould occurrence from the time of Homer to that of: be found without horns, but it is remarkable that this fould be regarded asia marpellous.

[^28]:    .76 Harris, i. e Dr. Campbell, Bruce, and Robertfon all fubferibe to this opinion, and from this fat a Atrong degree of probabilitity attaches to the aecount of Plocamus's freed man, for if he was canicd to Ceylon by ac-

[^29]:    7x He ufes the very word, gutwict fo often commented on in the journal of Nearchus.
    $7^{2}$ The mention of Gadrofia naturally in-
    number of thefe iflands can hardly apply to any but the Lackdives or Maldives. The; turtle allo and tortoife faell is characteriflick. gances obfcurity and doubt, but the infinits

[^30]:     fuppofed to relate to the Chryie of Ptolemy, i. c. Malacca, the Golden Cherfonefe. But it is coupled with the ifiands of Limyrike. Wiot
    
     p. 32 :
    ${ }^{24}$ As are the IEthyophagi of Heroatus, iib, iii. p. 203. ed. Weffl.

[^31]:    ${ }^{73}$ It is everywhere apparent, that Ptolemy Philadelphus was more ardent in difcovery than his fucceffors. The Greeks who had been in Abyfinia, as recorded by Pliay, vi. 35. were all poffibly fent by him, as Dálion, Arif. tócreon, Bion, Báfilis, and Simónides; and Timofthenes his admiral had certainly gone down the coalt of Africa; for to him Pliny attributes the firt mention of Ceraè or Madagafcar. But what is here afferted is meant only to fay, that no trade on that coaft exifted in confequence of this difcovery, as late as

[^32]:    Agatharchides; and even in the age of the Periplus the trade reaches no farther than Rhaptum and Menuthias, Zanguebar, in fouth lat. $6^{\circ} 0^{\prime} 0^{\prime \prime}$. whereas the north point of Madagafcar is in lat. $12^{\circ} 0^{\prime} 0^{\prime}$. Ptolemy allo only goes to Prafum, lat. $15^{\circ} 0^{\prime} 0^{\prime \prime}$.

    72 Pliny rather accords with Agatharchides than copies him; he feems to have gone to the fource;-thofe Greeks I mean who entered Ethiopia in the age of Phiiadelphus, See lib. vi. 35.

[^33]:    ${ }^{28}$ Blair's Chronology fays twenty-five years, A. C. which is impafible, for Augulus fubducd, Egypt, anno 30, A. C. and Strabo muft have been in Egypt with Gallus in twenty-fevenyortwenty-dis, A, C. LIe could not write
    his work between that and twerity five:

    - io Salmafius fays; 77. 830 amo urbis conditx, p. x 186.
    - so Harris fixes ITippalas's difcovery in the reign of Claudius, vol. i. 43 t .

[^34]:    '8z See Pliny, lib.,xii. c. 18. the palfage itfelf. is obfcure, it prowes that Pliny knew, (what, was not known in the prior age, thiat cinnamon and calia. were not the natice produce of Arabia. Blit it does mot fully prove that the merchants imporect them from more dif. inat marts.

[^35]:    , ${ }^{33}$ Certc Hippali perfon: conveniunt ex. amiffin hujus itineraxii note. Nomen ipfumilhim Alexandrinum fuiffe prodit, nec Romanum feditiet, nec Regyptium, feul planè Grecuin; qualia erant colonerum Macedonum Alexandrinorim. Differt. p. roz.
    
    
    
    

[^36]:    D Page 35
    
     mot of fare of Sclendo or Scrmdive and chus. ©cylen.'

[^37]:    94 Diferta $9.8 \%$
    ${ }^{5} 5$ Fige 32.
    so Prolemy, pulinied mech Jater, For he
    Wige till $166^{\circ}$ at leatl, near forty years afte the gth of Adrian.

[^38]:    90 Strabo lib avii. p. 8\%9.
    

[^39]:    rox Puincipe corum Rachià, Pliny: I have no heftation in fubferibing to the opinion of Faolino, that Raychia is Rajal.
    :203 Dodvell, Difert p. 93. from Suetoniua Claud: c. $42:$ But abis was not their onnt act, it was by order of Chaudius.

[^40]:    ina Mummia, or Mumia; was once a medicine, certainly not on aecount of the cadon werous but the aromatic fubtance.

[^41]:    
     cinnamon: . $\because$ the whole monopoly to herfelf. She is the ${ }^{\text {avo }}$ Sec atticle Kafia Kalia in the lift of receptacle of all [ndian] grode, and the difarticles of commerce,

    207 Ste Strabo 3 3ibe xvi. Pafitm. penfer of them to all other natione. Straba, lib. xwji, p. 798.
    

[^42]:    $\therefore \operatorname{ros}$ It is inot meant to affert that thefs mations never ufcd the fea; they certainly did, upon their orrin coalts, but there are not uow, nor does hillory prove that there ever were, any navigators, properly fo called, in the caftern feas, except the Arabians, Madays,

[^43]:    and Chincle, The Chinefe probably never paffed the etraiss of Malacci, the Nialay feem in all ages to have traded with India, and probably with the coif of Africa.

    - Boolart, tom, is p. Doo. trom Dio dortro

[^44]:    it Hadramant is the Atromitis of. the Grecks; it is neariy centrical between Sabea' and Oman on the ocean. Oman is the eaftern part of Arabia, towards the Gulph of Perfia.

    Sabea is'Yemen, on the Red Sea, but extends, . or did anciently extend, to the ports on the: ocean, as Aden, \& c.
    

[^45]:    sma'Ebergetes fays, ia the Adulitick In-' muf be:very confined,' I have met with only foriptions he had reduced the whole world" one inflance, and that in a very diffesent region. to peace. Scfoichoptis could do no more.
    ${ }^{17}$ Strabo, lib, xyi, p. 773.
    sis Ihad expected to find an account of the monfoons in the Oriental wrifers it put as iny nequantance with them by tranflations only,

    Ventus marinus fex integria menfbus tegnat in illo, Emari, tenebrolo, et tum in alium venituin convertitur, Al Ednifle p. 34 . the Mare tenebrofum is at teaft calt of Malacons if niot of China.

[^46]:    "9 Mestanatiorres. Periples, Strabo. decs. Indues, it is the full extent that can be requireds certainly fully mean to fay, that a coofuderable fleet went to India, but not till the Romais. were mafters of Egypt; and whether they perfonned the whole voyage, or only to Arabia for, Indian commodities, is a quettion. If we: fuppofe then to reach the mouths of the.
    for Pliny exprefsly fays; that the ports on the coalt of Makbar; were only begining to be khown in lis age. Is what way they failed: previous to the Periphs will be notices in its; proper places:

[^47]:    ${ }^{120}$. One charge bronght againt Germanicus by Tiberius, was his going into Egypt with. out permifion.

    23t it does not appear that any Roman in Egypt was allowed to engage in commerce. In the early part of their government at leaf, all the names we meet with in the trade of the Red Sea, Africa, and India, are Greek: Arrian, Dionyfus, \&c. \&c.
     which ditinguilhes them from thote of other na-- tions. If we place ghe merdian power of Rome in the age of Augutus, it was roo years in rif. ing, and 1400 years in folling. The fovereignty

[^48]:    - Orientalem oram Africa fulcavit Aukor Peripli; cujus auctoritas majoris eft ${ }^{6}$ facienda guàm ceterormm omnium, utpote qui folus veritati confentanea "fripfent:". $\quad$ Vossius ad Melam. p. 595. ed. Varior Lugd. 1722 .

[^49]:    - Proleray writes koch Rhapta and Rhaptum, the Periplus alwaye Rhapta, plust.

[^50]:     Myos Hormus and Aphronites Hornas of Strabo, but thiey are both the Came, if Strabo is to be interpreted by Agatharchides, whom he copies; his tranlhator indeed fays, Muris Hatio aliaque Veneris, but the text does not jequire the difinction.. See Mirduunin, not. ad 3ib. vi. Plin. cvi. The My H os FIomins of de la *,ochette I fhould prefer for the true poftion.

[^51]:    ${ }^{3}$ D'Anville has the fame, and Bruce the bay. Minè and Belled both fignify a fort or caftle. The principal Mameluk at Cairo, is ftyled Sheik-el-Belled, the fheik of the cafle. ${ }^{5} 5$ Page 57.

[^52]:    ${ }^{20}$ The revenue of Alexandria, in the ${ }^{21}$ Three hundred and eighty, without alworf of times, was 12,500 talents, equal to lowing for the finuofity of the river. $2,42 \mathrm{I}, 8751$. fterling. Strab. xvii. $79^{8 .}$

[^53]:    ${ }^{22}$ This canal bas ftill watcr in it during the inundation, and boats pafs.
    ${ }^{23}$ See Dion. Caffius, lib. ii. p. 280. Lat. ed.

    24 Strabo, lib. xvii. p. 795.
    ${ }^{25}$ The prefent government of Egypt is divided between the Turks, the Mammelucs, and the Arabs. The Turks, though fovereigns, have the leaft fhare. The Mammelucs have twenty-four beys, nominally dividing the whole country from the fea to Syenc, all-

[^54]:    powerful at Cairo, but never complete as to their number in the country, and haring their influence with the Arab fheiks. The Roman government was firm and imperious, but even under that, as appears from this paffage of Strabo, the Arabs found means to infinu. ate themfelves into a hare of the power at Coptus, and, as we may from this circumfance conclude, poffibly in other places.
    ${ }^{25} \mathrm{~K} x+m m$ modss, Neapolis, or the new city, by its name evidently of Greek estraction.

[^55]:     xaì хø̈̈urad roïs тórous тéroıs. Strab. lib. xvii. p. 815. See a very remarkable paffage in Ptolemy, lib. i. c. 7.
    ${ }^{32}$ Whether Myos Hormus and Berenicè may have been comprehended in the mention of one as conjectured above, mult remain a

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    doubt, as there are no circumftances to afcer-
    tain it.
    .32 Lib. vi. c. ```

