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# INTERNATIONAL CATALOGUE

OF

# SCIENTIFIC LITERATURE

SIXTH ANNUAL ISSUE

## N

# ZOOLOGY

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N  
ZOOLOGY

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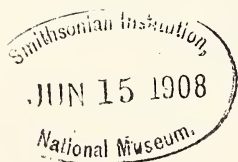
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The *International Catalogue of Scientific Literature* is in effect a continuation of the Royal Society's *Catalogue of Scientific Papers* which will, when completed, consist of an Author Catalogue and Subject Index covering the period of 1800-1900. Twelve quarto volumes of the Author Catalogue covering the period 1800-1883 have already been published; the volumes for 1884-1900 are in course of preparation. The Subject Index will be issued separately for each of the seventeen sciences dealt with in the *International Catalogue of Scientific Literature*, and will be arranged in accordance with its Schedules. The volume for Pure Mathematics is in the Press.



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VOLUME THE FORTY-THIRD

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RELATING CHIEFLY TO THE YEAR

1906

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SUPERINTENDED BY

DAVID SHARP, M.A., F.R.S., F.Z.S., &c.

*Curator in Zoology, University of Cambridge.*

Explorate solum : sic fit via certior ultra.

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Papers and Memoirs intended for this work should be addressed to "THE EDITOR of the Zoological Record, Zoological Society, 3, Hanover Square, London, W." It is earnestly requested that in the case of separately-printed copies of papers so forwarded, the *original pagination* may be indicated.

## EXPLANATORY.

This Volume is printed in twenty Divisions, as enumerated on p. xii.

The pagination of each Division is separate, and is given at the left-hand top corner of the pages. The number and name of the Division is given as a heading on each left-hand page. The Registration Numbers are given at the right-hand top corner of the right-hand pages. The date 1906 corresponding to the bulk of the literature indexed is given at the right-hand top corner of the left-hand page.

In the Subject Index of each Division authors are quoted by name only. The full references will be found in the Title Section of the Division.

Where several papers by the same author are indexed they are numbered consecutively.

A List of Abbreviations of Titles of Journals is given at the end of the volume. This List includes not only journals actually indexed in this volume, but also journals that have been indexed in previous volumes. It should therefore be a fairly complete List of Journals that contain Zoological papers.

The Literature indexed is mainly that of 1906 but includes entries for 1901-1905 that have been received too late for inclusion in previous volumes of the International Catalogue.

The two title-pages show that Volume N (Zoology) of the Sixth annual issue of the International Catalogue of Scientific Literature and Volume XLIII of the Zoological Record are identical.

The proposal for an amalgamation of the Zoological Record with Volume N of the International Catalogue was approved by the International Convention which met in London in July, 1905. The agreement concluded with the Zoological Society of London provides that the amalgamation shall be for a period of five years, covering the literature of 1906-1910; at the end of this period each party to the agreement may resume the independent issue of its annual volumes, preserving the continuity of its series.

Subscribers to the Zoological Record will receive the volumes bound uniformly with previous volumes of the Record, while subscribers to the International Catalogue will receive their volumes in covers uniform with other volumes of the Catalogue.

The Schedules of Classification are bound up with the volumes intended for subscribers to the International Catalogue, but are absent from the volumes bound uniform with the Zoological Record.

The volume is arranged in accordance with these Schedules, but in one or two instances, notably in the case of Section XII Insecta, the Editor has adopted a modified arrangement.

## CONTENTS.

- I. COMPREHENSIVE AND GENERAL ZOOLOGY.
  - II. PROTOZOA.
  - III. PORIFERA OR SPONGIAE.
  - IV. COELENTERATA.
  - V. ECHINODERMATA.
  - VI. VERMIDEA: including GEPHYREA AND PTEROBRANCHIATA.
  - VII. BRACHIOPODA AND BRYOZOA OR POLYZOA.
  - VIII. MOLLUSCA.
  - IX. ARTHROPODA (GENERAL).
  - X. CRUSTACEA.
  - XI. ARACHNIDA AND MYRIOPODA; including also GIGANTOSTRACA, EURYPTERIDA, PROTOTRACHEATA.
  - XII. INSECTA.
  - XIII. PROCHORDATA = TUNICATA, CEPHALOCHORDATA, ENTEROPNEUSTA.
  - XIV. VERTEBRATA (GENERAL).
  - XV. PISCES.
  - XVI. REPTILIA AND BATRACHIA.
  - XVII. AVES.
  - XVIII. MAMMALIA.
- ALPHABETICAL INDEX OF NEW NAMES OF GENERA AND SUBGENERA.
- LIST OF ABBREVIATIONS AND OF TITLES OF JOURNALS.

International Catalogue of Scientific Literature

SCHEDULE  
OF  
CLASSIFICATION

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(N) ZOOLOGY

## (N) ZOOLOGY.

## EXPLANATORY.

OWING to the great extent of Zoology, and the consequent specialisation that occurs amongst its workers, and because also of the desire that parts of the Zoological Catalogue shall be complete each one in itself, Zoology is divided into "Branches." These Branches, though primarily determined by the natural divisions of the animal kingdom, do not entirely correspond therewith, because of the great difference in the extent of the natural divisions. Some of these divisions (Phyla, or Classes) are consequently treated together, while others are divided into more than one Branch. When a division of this kind is adopted, there is also a Branch in which the divisions are still treated together as one whole, viz., Arthropoda, 2400-2431, and Vertebrata, 5200-5231. These two Branches will include only works of a wide scope. Thirty Branches are adopted, under the numbers 0400 to 6031, and there is also a comprehensive Branch numbered 0000-0231.

The subject matter of Zoology proper (as distinguished from the mode of arrangement of the animals alluded to above) is arranged under eight heads (or great Subjects). These eight Subjects all recur under each of the thirty Branches. Each Subject is indicated by a number, the terminal two digits of which are the same in every Branch. These great subjects will be found under 0207 to 0231.

Each great subject is divided into sub-divisions which are not numbered.

## (N) ZOOLOGIE.

## ERLÄUTERUNG.

BEI dem grossen Umfange der Zoologie und bei der hieraus sich ergebenden Specialisierung unter ihren Forschern, und ferner, weil der Wunsch besteht, dass einzelne Teile der zoologischen Bibliographie ein in sich geschlossenes Ganzes darstellen möchten, ist es als notwendig befunden, die Zoologie nach „Zweigen“ abzuteilen.

Diese Zweige sind zwar in erster Linie nach den natürlichen Gruppen des Tierreichs bestimmt, entsprechen ihnen aber doch nicht völlig, da der Umfang der einzelnen natürlichen Gruppen zu verschieden ist.

Demgemäss sind einzelne dieser Gruppen (Phyla oder Klassen) mit einander zusammengefasst, während andere in mehrere Zweige geteilt sind. In den Fällen, wo eine solche Teilung vorgenommen ist, giebt es auch einen Zweig, in dem die betreffende Gruppe ungeteilt als Ganzes behandelt wird, nämlich Arthropoden, 2400-2431 und Vertebraten, 5200-5231. Diese beiden Zweige sollen nur Werke allgemeinerer Art enthalten. In ganzen sind unter Nummer 0400 bis 6031 dreissig Zweige angenommen und dazu kommt noch ein alles umfassender, unter Nummer 0000 bis 0231.

Der sonstige Stoff der Zoologie (im Unterschied von der Art der Anordnung der Tiere, von der bisher die Rede war) ist auf acht Kapitel (oder Hauptgegenstände) verteilt. Diese acht Gegenstände kehren bei jedem der dreissig Zweige wieder. Jeder Gegenstand ist durch eine Nummer bezeichnet, deren letzte beide Ziffern in allen Zweigen die gleichen sind.

Diese Hauptgegenstände findet man unter 0207 bis 0231.

Jeder Hauptgegenstand ist in Unterabteilungen geteilt, die nicht numeriert sind.



## (N) ZOOLOGIE.

## EXPLICATION.

ETANT donné d'une part la grande extension de la Zoologie, qui force les adeptes de cette science à se spécialiser, et d'autre part la nécessité de rendre les diverses parties du Catalogue zoologique indépendantes les unes des autres, et aussi complètes que possible, on a jugé nécessaire de diviser la Zoologie en un certain nombre de "branches." Ces branches ont été établies autant que possible d'après les divisions naturelles du règne animal; toutefois elles ne correspondent pas toujours exactement à ces divisions, en raison des grandes différences qui existent dans l'étendue de celles-ci. Il en résulte que certaines divisions (phyla, ou embranchements) sont traitées ensemble, tandis que d'autres sont partagées en plusieurs branches. Dans ce dernier cas il y a ordinairement une branche qui traite l'ensemble d'un embranchement, par exemple, Arthropodes, 2400-2431, et Vertébrés, 5200-5231. Ces deux branches ne comprennent que des ouvrages traitant un sujet assez vaste. On a adopté trente branches, portant les indices 0400 à 6031. Il y a en outre une branche de généralités portant l'indice 0000-0231.

La Zoologie considérée en elle-même, indépendamment des subdivisions en groupes auxquelles il vient d'être fait allusion, est partagée en huit chapitres (ou grandes catégories de sujets). Ces huit catégories se répètent dans chacune des trente branches, et sont indiquées chacune par des nombres dont les deux derniers chiffres sont les mêmes dans toutes les branches. Elles se trouvent sous les indices 0207 à 0231. Chacune d'elles se partage en subdivisions qui ne portent pas d'indices spéciaux.

## (N) ZOOLOGIA.

## SPIEGAZIONI.

IN causa della grande estensione della zoologia, e della conseguente specializzazione che esiste tra i suoi cultori, e perchè è desiderabile che le parti del Catalogo zoologico siano complete ciascuna per sè stessa, si è trovato necessario dividere la zoologia in "rami." Questi rami, quantunque principalmente determinati dalle naturali divisioni del regno animale, non corrispondono interamente ad esse in causa della grande differenza nella estensione delle divisioni naturali. Alcune di queste divisioni (phyla, oppure classi) sono conseguentemente trattate insieme, mentre che altre sono divise in più di un ramo. Quando una divisione di questo genere è adottata, vi è anche un ramo nel quale le divisioni sono tuttavia trattate insieme come un complesso, p. es. Arthropoda, 2400-2431, o Vertebrata, 5200-5231. Questi due rami includeranno soltanto opere di largo soggetto. Trenta rami sono adottati, sotto i numeri 0400 a 6031, e inoltre è incluso un ramo comprensivo col numero 0000-0231.

La materia della zoologia comprensiva (distinta da quella dei gruppi degli animali qui sopra accennati) è disposta sotto otto capitoli (o grandi soggetti). Questi otto soggetti tutti si ripetono in ognuno dei trenta rami. Ciascun soggetto è indicato da un numero, del quale le due ultime cifre sono le stesse in ciascuno dei rami. Questi grandi soggetti si trovano sotto i numeri da 0207 a 0231. Ciascun grande soggetto è diviso in sottodivisioni, che non sono numerate.

## INSTRUCTIONS.

The registration numbers used in Zoology consist of four figures, of which the first two indicate the taxonomic position of the animal or animals dealt with and the last two the heading under which the paper is to be indexed.

Thus, in the registration number 2611 the figures 26 indicate *Crustacea*, while the figures 11 denote *Physiology*. All registration numbers beginning with 26 refer to Crustacea, and all registration numbers ending in 11 show that the paper indexed deals with a physiological subject.

The meaning to be assigned to the last two figures is always that given in the following list:—

- ..00 Title slip.
- ..03 Comprehensive and General Works. (For sub-divisions see *Hyperzoology p. 18.*)
- ..07 Structure. (For sub-divisions see 0207.)
- ..11 Physiology. (For sub-divisions see 0211.)
- ..15 Development. (For sub-divisions see 0215.)
- ..19 Ethology. (For sub-divisions see 0219.)
- ..23 Variation and Aetiology. (For sub-divisions see 0223.)
- ..27 Geography. (For sub-divisions see (J) Geography.)
- ..31 Taxonomy.  
The meaning of the first two figures is as follows:—
- 02.. General papers, or papers dealing with several classes of animals.
- 04.. Protozoa.
- 06.. Porifera (or Spongida).
- 08.. Coelenterata (or Cnidaria).
- 10.. Echinodermata.
- 12.. Platyhelminthes. Mesozoa and Trichoplax.
- 14.. Nematelminthes.
- 16.. Chaetognatha. Rotifera. Gastrotricha. Kinorhyncha (or Echinodera).
- 18.. Archiannelida. Polychaeta. Myzostomaria. Oligochaeta. Gephyrea. Phoronis, Hirudinea.

## INSTRUKTIONEN.

Die in der Zoologie gebrauchten Ordnungsnummern bestehen aus vier Ziffern, von denen die beiden ersten die taxonomische Stellung des oder der behandelten Tiere anzeigen, während die letzten die Art der Behandlung angeben. So bedeutet z. B. in der Ordnungsnummer 2611 die 26 Crustacea, die 11 aber Physiologie. Die mit 26 beginnenden Ordnungsnummern beziehen sich also auf Crustacea, und alle Ordnungsnummern auf 11 geben an, dass die katalogisierte Arbeit sich mit einem physiologischen Gegenstande befasst.

Die Bedeutung der letzten beiden Ziffern ergibt sich aus folgender Liste:—

- Titel-Zettel.
- Umfassende und allgemeine Arbeiten. (Unterabteilungen siehe *Hyperzoologie p. 18.*)
- Morphologie. (Unterabteilungen siehe 0207.)
- Physiologie. (Unterabteilungen siehe 0211.)
- Entwicklung. (Unterabteilungen siehe 0215.)
- Ethologie. (Unterabteilungen siehe 0219.)
- Variation und Ätiologie. (Unterabteilungen siehe 0223.)
- Geographische Verbreitung. (Unterabteilungen siehe (J) Geographie.)
- Taxonomie.  
Die ersten beiden Ziffern bedeuten Folgendes:—
- Allgemeine, oder auf mehrere Tierklassen bezügliche Arbeiten.
- Protozoa.
- Porifera (oder Spongida).
- Coelenterata (oder Cnidaria).
- Echinodermata.
- Platyhelminthes. Mesozoa und Trichoplax.
- Nematelminthes.
- Chaetognatha. Rotifera. Gastrotricha. Kinorhyncha (oder Echinodera).
- Archiannelida. Polychaeta. Myzostomaria. Oligochaeta. Gephyrea. Phoronis. Hirudinea.

## INSTRUCTIONS.

Les numéros enregistreurs employés en zoologie comprennent quatre chiffres, dont les deux premiers indiquent la position taxonomique de l'animal ou des animaux en question, tandis que les deux derniers indiquent la rubrique sous laquelle le mémoire doit être classé.

Ainsi, dans le numéro enregistreur 2611 les chiffres 26 indiquent Crustacés, pendant que les chiffres 11 signifient Physiologie. Tout numéro enregistreur qui commence par 26 se rapporte aux Crustacés, de même que tout numéro enregistreur en 11 indique que le mémoire dont il est question s'occupe de physiologie.

La signification des deux derniers chiffres est toujours celle qui est donnée dans la liste suivante :—

- ..00 Fiche de titre.
- ..03 Ouvrages généraux ou d'une grande étendue. (Pour les subdivisions voy. *Hyperzoologia p. 19.*)
- ..07 Morphologie. (Pour les subdivisions voy. 0207.)
- ..11 Physiologie. (Pour les subdivisions voy. 0211.)
- ..15 Développement. (Pour les subdivisions voy. 0215.)
- ..19 Ethologie. (Pour les subdivisions voy. 0219.)
- ..23 Variation et étologie. (Pour les subdivisions voy. 0223.)
- ..27 Distribution géographique. (Pour les subdivisions voy. (J) Géographie.)
- ..31 Taxonomic.  
La signification des deux premiers chiffres est comme suit :—
- 02.. Mémoires généraux ou ayant trait à plusieurs classes d'animaux.
- 04.. Protozoaires.
- 06.. Porifères (ou Spongiaires).
- 08.. Cœlentérés (ou Cnidaria).
- 10.. Echinodermes.
- 12.. Platyhelminthes. Mésozoaires et le Trichoplax.
- 14.. Nématelminthes.
- 16.. Chætognathes. Rotifères. Gastrotriches. Kinorhynques (ou Echinodères).
- 18.. Archiannélides. Polychètes. Myzostomes. Oligochètes. Géphyriens. Phoronis, Hirudinées.

## ISTRUZIONI.

I numeri di registrazione adoperati nella zoologia consistono di quattro cifre, delle quali le due prime indicano la posizione tassonomica dell'animale o degli animali di cui si tratta, mentre che le due ultime indicano la rubrica sotto la quale si ha da catalogare la memoria. Così, nel numero di registrazione 2611 le cifre 26 indicano *Crustacea*, mentre che le cifre 11 si riferiscono alla *Fisiologia*. Ogni numero di registrazione che comincia con 26 si riferisce ai Crustacea, e da ogni numero che termina in 11 si può inferire che la memoria catalogata si occupa di fisiologia.

Le due ultime cifre hanno invariabilmente la significazione che si vede nell'elenco seguente :—

- Scheda a titolo.
- Opere generali e comprensive. (Per le suddivisioni vedi *Iperzoologia p. 19.*)
- Struttura. (Per le suddivisioni vedi 0207.)
- Fisiologia. (Per le suddivisioni vedi 0211.)
- Sviluppo. (Per le suddivisioni vedi 0215.)
- Etologia. (Per le suddivisioni vedi 0219.)
- Variatione ed Etiologia. (Per le suddivisioni vedi 0223.)
- Geografia. (Per le suddivisioni vedi (J) Geografia.)
- Tassonomia.  
Le due prime cifre hanno sempre la significazione seguente :—
- Lavori generali o riferentisi a più classi di animali.
- Protozoa.
- Porifera (vel Spongida).
- Cœlenterata (vel Cnidaria).
- Echinodermata.
- Platyhelminthes. Mesozoa e Trichoplax.
- Nematelminthes.
- Chætognatha. Rotifera. Gastrotricha. Kinorhyncha (vel Echinodera).
- Archiannelida. Polychæta. Myzostomaria. Oligochæta. Gephyræa. Phoronis. Hirudinea.

- |      |  |  |
|------|--|--|
| 20.. | Brachiopoda, Bryozoa (or Polyzoa).   | Brachiopoda. Bryozoa (oder Polyzoa).   |
| 22.. | Mollusca.  | Mollusca.  |
| 24.. | Arthropoda.  | Arthropoda.  |
| 26.. | Crustacea.   | Crustacea.   |
| 28.. | Trilobita, Xiphosura, Eurypterida. Pantopoda, Tardigrada, Linguatulida.                                      | Trilobita. Xiphosura. Eurypterida. Pantopoda. Tardigrada. Linguatulida.  |
| 30.. | Arachnida.   | Arachnida.   |
| 32.. | Prototracheata (or Onychophora).   | Prototracheata.  |
| 34.. | Myriopoda.   | Myriopoda.   |
| 35.. | Insecta.   | Insecta.   |
| 36.. | Aptera (or Apterygogenea). Anoplura, Mallophaga, Thysanoptera (or Physopoda), Siphonaptera (or Aphaniptera). | Aptera (oder Apterygogenea). Anoplura. Mallophaga. Thysanoptera (oder Physopoda). Siphonaptera (oder Aphaniptera). |
| 38.. | Orthoptera, Neuroptera and Trichoptera.  | Orthoptera, Neuroptera und Trichoptera.  |
| 40.. | Hemiptera (or Rhynchota), excluding Anoplura, which are placed in 36..                                       | Hemiptera (oder Rhynchota), excl. Anoplura, die unter 36 .. eingeordnet sind.                                      |
| 42.. | Diptera, excluding Siphonaptera, which are placed in 36..  | Diptera, excl. Siphonaptera, die unter 36.. eingeordnet sind.  |
| 44.. | Lepidoptera.   | Lepidoptera.   |
| 46.. | Hymenoptera.   | Hymenoptera.   |
| 48.. | Coleoptera, including Strepsiptera.  | Coleoptera, incl. Strepsiptera.  |
| 50.. | Prochordata: Amphioxus (or Leptocardii), Enteropneusta, Tunicata.  | Prochordata: Amphioxus (oder Leptocardii), Enteropneusta, Tunicata.  |
| 52.. | Vertebrata.  | Vertebrata.  |
| 54.. | Pisces, excluding Leptocardii (or Amphioxus), which are placed in 50..                                       | Pisces, excl. Leptocardii (oder Amphioxus), die unter 50 .. eingeordnet sind).                                     |
| 56.. | Amphibia and Reptilia.   | Amphibia und Reptilia.   |
| 58.. | Aves.  | Aves.  |
| 60.. | Mammalia.  | Mammalia.  |

In addition to the complete volume it is intended to issue as three separate parts sections 12.. to 18.. (Vermidea); 28.. to 34..; and 35.. to 48.. (Hexapoda). Each of the remaining sections will then be published as a separate part.

Es wird beabsichtigt, ausser dem Gesamtbande noch drei separate, aus folgenden Abschnitten bestehende Teile herauszugeben: 12.. bis 18.. (Vermidea); 28.. bis 34..; und 35.. bis 48.. (Hexapoda). Jeder der übrigen Abschnitte wird dann auch separat herausgegeben.

*Slips or Cards used in preparing the Volume.*

Four kinds of slips are to be provided:—(1) Title slips, (2) Subject slips, (3) Systematic (Taxonomic) slips, (4) New Genera or Species slips. The several slips relating to the same paper should be tied together, and should have a common (arbitrary) number. This number must not be used for any other paper until two years have

*Zettel zur Vorbereitung des Bandes.*

Es müssen vier verschiedene Zettel hergestellt werden:—(1) Titel-Zettel, (2) Sach-Zettel, (3) System-(Taxonomic-) Zettel, (4) Zettel für neue Gattungen oder Arten. Die verschiedenen, auf dieselbe Arbeit bezüglichen Zettel sollen zusammengeheftet und mit einer gemeinsamen (willkürlichen) Nummer versehen werden. Vor Ablauf von zwei

20..	Brachiopodes. Bryozoaires (ou Polyzoaires).	Brachiopoda. Bryozoa (vel Polyzoa).
22..	Mollusques.	Mollusca.
24..	Arthropodes.	Arthropoda.
26..	Crustacés.	Crustacea.
28..	Trilobites. Xiphosures. Euryptérides. Pantopodes. Tardigrades. Linguatulides.	Trilobita. Xiphosura. Eurypterida. Pantopoda. Tardigrada. Linguatulida.
30..	Arachnides.	Arachnida.
32..	Prototrachéates (ou Onychophores).	Prototrachcata (vel Onychophora).†
34..	Myriapodes.	Myriopoda.
35..	Insectes.	Insecta.
36..	Aptères (ou Aptérygogéniens). Anoploures. Mallophages. Thisanoptères (ou Physopodes). Siphonaptères (ou Aphaniptères).	Aptera (vel Apterygogenea). Anoplura. Mallophaga. Thysanoptera (vel Physopoda). Siphonaptera (vel Aphaniptera).
38..	Orthoptères, Névroptères et Trichoptères.	Orthoptera, Neuroptera et Trichoptera.
40..	Hémiptères (ou Rhynchotes), à l'exclusion des Anoploures, qui sont placés sous le numéro 36..	Hemiptera (vel Rhynchota), esclusi Anoplura, che sono indicati col numero 36..
42..	Diptères, à l'exclusion des Siphonaptères, qui sont placés sous le numéro 36..	Diptera, esclusi Siphonaptera, che sono indicati col numero 36..
44..	Lépidoptères.	Lepidoptera.
46..	Hyménoptères.	Hymenoptera.
48..	Coléoptères, y compris les Strepsiptères.	Coleoptera, incl. Strepsiptera.
50..	Prochordés: Amphioxus (ou Leptocardiens) Entéropneustes, Tuniciers.	Prochordata: Amphioxus (vel Leptocardii), Enteropneusta, Tunicata.
52..	Vertébrés.	Vertebrata.
54..	Poissons, à l'exclusion des Leptocardiens (ou Amphioxus), qui sont placés sous le numéro 50..	Pisces, escl. Leptocardii (vel Amphioxus), i quali sono indicati col numero 50..
56..	Batraciens et Reptiles.	Batrachia et Reptilia.
58..	Oiseaux.	Aves.
60..	Mammifères.	Mammalia.

Outre le volume complet, l'on se propose de publier en trois volumes à part les sections 12.. à 18.. (Vermidés); 28.. à 34..; et 35.. à 48.. (Hexapodes). Puis chacune des sections suivantes sera aussi publiée à part.

Oltre il tomo completo si ha l'intenzione di pubblicare in tre parti separate le sezioni 12.. a 18.. (Vermidea); 28.. a 34..; e 35.. a 48.. (Hexapoda). Ciascuna delle rimanenti sezioni verrà poi anche pubblicata separatamente.

#### *Rédaction des Fiches.*

Il doit y avoir quatre sortes de fiches, savoir:—(1) Fiches de titre, (2) Fiches de matière, (3) Fiches systématiques (taxonomiques), (4) Fiches pour les genres ou espèces nouvelles. Toutes les fiches qui se rapportent au même mémoire doivent être attachées ensemble et marquées d'un numéro en commun (arbitraire). Ce numéro ne

#### *Redazione delle Schede.*

Devono farsi quattro specie di schede:—(1) Schede a titolo, (2) Schede a materia, (3) Schede sistematiche (tassonomiche), (4) Schede per i generi o le specie nuove. Tutte le schede riferentisi al medesimo lavoro devono essere attaccate insieme e segnate con un numero commune (arbitrario). Questo numero non è da usarsi

elapsed. The slips should be prepared as follows:—

(1) *Title slips*.—The first entry on a title slip is the letter N, followed by a four-figure registration number, in which the first two figures indicate the Branch of zoology as given in the above list, while the two last figures are .00. The remaining entries on the title slips are to be made as on the author slips for the other sciences.

At the foot of each title slip all the registration numbers corresponding to the subject and systematic slips prepared for the paper are to be given. If a paper is to be indexed under more than one Branch of zoology a separate title slip must be prepared for each Branch.

Example—

N 6000.

Mansion, Arthur. La taupe commune. Rev. sci., Paris, (sér. 4), 17, 1902, (13–18). [6019 6031].

In order to economise space and to simplify entries, the full reference to a paper will be made only on the title and systematic slips. Each title slip will be printed in the Catalogue with a definite number attached. This number, together with the author's name, will be the reference to the paper in all other cases.

(2) *Subject Slips*.—The entries on the subject slips shall not, as a rule, be reproductions of the title, but such modifications thereof as shall serve to convey the necessary information in the clearest and most direct manner possible.

To prepare such slips properly it is essential that the papers shall have been read and indexed by those who are able to determine what are the several matters of importance to be brought under notice.

In the case of slips bearing the numbers 0000–0050, 0070 and 0090,

Jahren darf keine andere Arbeit mit derselben Nummer bezeichnet werden.

(1) *Titel-Zettel*.—Die erste Eintragung auf einem Titel-Zettel ist der Buchstabe N, worauf eine vierziffrige Ordnungsnummer folgt wovon die zwei ersten Ziffern den Zweig der Zoologie bezeichnen, wie in obiger Liste angegeben, während die zwei letzten Ziffern .00 sind. Die übrigen Eintragungen auf dem Titel-Zettel sind in derselben Weise abzufassen wie bei den Autoren-Zetteln in den anderen Wissenschaften.

Am Fusse eines jeden Titel-Zettels müssen sämtliche, den für die betreffende Arbeit hergestellten Sach- und System-Zetteln entsprechende, Ordnungsnummern angegeben werden. Soll ein Aufsatz unter mehr als einem Zweige der Zoologie katalogisiert werden, so ist für jeden Zweig ein besonderer Titel-Zettel herzustellen.

Beispiel—

N 6000.

Mansion, Arthur. La taupe commune. Rev. sci., Paris, (sér. 4), 17, 1902, (13–18). [6019 6031].

Um Raum zu ersparen und die Eintragungen zu vereinfachen kommt das vollständige Citat nur auf die Titel- und System-Zettel. Jedem im Kataloge gedruckten Titel-Zettel wird eine bestimmte Nummer zugeteilt. Diese Nummer, mit dem Verfassernamen, bildet in allen anderen Fällen das Citat.

(2) *Sach-Zettel*. — Die Eintragungen auf den Sach-Zetteln sollen in der Regel keine Wiederholungen des Titels sein, sondern solche Modifikationen desselben, dass sie die erforderliche Auskunft so kurz und bündig wie möglich erteilen.

Für die richtige Fassung solcher Zettel ist es von Wichtigkeit, dass die Aufsätze von Personen gelesen und katalogisiert werden, welche im stande sind das Wichtige darin zu erkennen und hervorzuheben.

Bei Zetteln, welche die Nummern 0000–0050, 0070 und 0090 tragen,

doit être employé pour aucun autre mémoire qu'au bout de deux ans. Voici comment il faut rédiger les fiches :—

(1) *Fiches de titre.*—La fiche de titre doit commencer par la lettre N, suivie d'un numéro enregistreur de quatre chiffres, dont les deux premiers indiquent la branche de zoologie d'accord avec la liste ci-dessus, tandis que les deux dernières sont 00. Ensuite la fiche de titre sera établie de la même façon que les fiches d'auteur pour les autres sciences.

Chaque fiche de titre doit porter en bas tous les numéros enregistreurs qui correspondent aux fiches de matière et systématiques qui aient été rédigées pour le mémoire dont il s'agit. Si un mémoire doit être catalogué sous plus d'une branche de zoologie il faut une fiche séparée pour chaque branche.

Exemple—

N 6000.

Mansion, Arthur. La taupe commune. Rev. sci., Paris, (sér. 4), 17, 1902, (13-18). [6019 6031].

Pour gagner de la place et simplifier les articles, la référence ne sera donnée en entier que sur les fiches de titre et les fiches systématiques. Chaque fiche de titre sera imprimée dans le Catalogue et désignée par un numéro. Ce numéro, avec le nom d'auteur, servira de renvoi à l'article partout ailleurs.

(2) *Fiches de matière.*—Règle générale, la fiche de matière doit porter non pas une reproduction du titre mais de telles modifications du titre qui suffisent à donner les renseignements nécessaires de la manière la plus précise.

Afin que de telles fiches soient bien établies il est essentiel que les mémoires aient été lus et catalogués par des personnes à même de déterminer quelles sont les choses d'importance à faire ressortir. Là où il s'agit de fiches portant les numéros 0000-0050, 0070 et 0090, le

per nessun altro lavoro prima che siano scorsi due anni. Le schede devono essere redatte come segue :—

(1) *Schede a titolo.*—La scheda a titolo deve cominciare colla lettera N, seguita da un numero di registrazione di quattro cifre di cui le due prime indicano il ramo di zoologia d'accordo coll'elenco dissopra, mentre che le due ultime sono . . 00. Le altre annotazioni sulla scheda a titolo si fanno poi come sulle schede per autori nelle altre scienze.

La scheda a titolo deve portare in fondo tutti i numeri di registrazione corrispondenti colle schede sistematiche ed a materia che si siano preparate per il lavoro di cui si tratta. Se si vuol catalogare un lavoro sotto più d'un ramo di zoologia bisogna fare una scheda separata per ogni ramo.

Esempio—

N 6000.

Mansion, Arthur. La taupe commune. Rev. Sci., Paris, (sér. 4), 17, 1902, (13-18). [6019 6031].

Per risparmiare lo spazio e ridurre al più semplice le annotazioni, la riferenza non verrà scritta per esteso che sulle schede a titolo e le schede sistematiche. Ogni scheda a titolo si stamperà nel Catalogo con un numero definito. Questo numero, assieme al nome dell'autore, costituirà la riferenza al lavoro in ogni altro caso.

(2) *Schede a materia.*—Le annotazioni sulle schede a materia non saranno, di regola, ripetizioni del titolo, ma saranno tali modificazioni di questo che bastino a dare le informazioni necessarie nel modo più perspicuo che sia possibile.

Perchè tali schede siano ben redatte è essenziale che le memorie siano state lette e catalogate da persone che possano determinare quali sono le cose importanti da far risaltare.

Trattandosi di schede portanti i numeri 0000-0050, 0070 e 0090, il

the author's name should immediately follow the registration number.

Example—

N 0040.

Ross, R. Malaria and mosquitoes. London, Proc. R. Inst., 16, 1901, (295-313).

This should be attached to the title slip and abbreviated thus:—

N 0040.

Ross, R. Malaria and mosquitoes. (295-313).

In cases in which it is desirable, for other purposes which the Bureau may have in contemplation, to enter the full reference on the slip, the shortened reference will be made at the Central Bureau by striking out unnecessary particulars.

On slips bearing a number ending in .27 (Geographical Distribution) the registration number should be immediately followed by the geographical symbol. After this should come (a) the author's name, (b) the title of the paper.

Example—

N 2227 *he.*

Pilsbry, H. A. A new Colombian Pleurodonte [*P. clappi*]. Nautilus, Philadelphia, Pa., 15, 1901, (34-35).

which, if the above directions are followed, will be reduced to—

N 2227 *he.*

Pilsbry, H. A. A new Colombian Pleurodonte. (34-35).

The remaining registration numbers, viz., 0060, and those ending in .03, .07, .11, .15, .19, and .23, are divided into numerous sub-headings. One of these sub-headings should follow the registration number.

A separate card must be provided for each entry that is to appear separately in the Catalogue.

In cases in which entries cannot be included under existing subdivisions, and for which a new sub-

muss der Verfassersname unmittelbar auf die Ordnungsnummer folgen.

Beispiel—

N 0040.

Ross, R. Malaria and mosquitoes. London, Proc. R. Inst., 16, 1901, (295-313).

Dieser Zettel müsste an den Titel-Zettel geheftet und wie folgt abgekürzt werden:—

N 0040.

Ross, R. Malaria and mosquitoes. (295-313);

Falls es den Bureau, zu irgend einem von ihnen beabsichtigten Zwecke, wünschenswert erscheint, das vollständige Citat beizubehalten, so wird das Centralbureau durch Streichen des Überflüssigen dasselbe abkürzen.

Bei Zetteln, welche eine Nummer auf .27 tragen (geographische Verbreitung) muss das geographische Symbol unmittelbar auf die Ordnungsnummer folgen. Dann kommt (a) der Verfassersname, (b) der Titel des Aufsatzes.

Beispiel—

N 2227 *he.*

Pilsbry, H. A. A new Colombian Pleurodonte [*P. clappi*]. Nautilus, Philadelphia, Pa., 15, 1901, (34-35).

was, obiger Vorschrift gemäss, abgekürzt so lautet:—

N 2227 *he.*

Pilsbry, H. A. A new Colombian Pleurodonte. (34-35).

Die übrigen Ordnungsnummern, namentlich 0060 und jene auf .03, .07, .11, .15, .19 und .23, sind in zahlreiche Unterabteilungen geteilt. Eine dieser Unterabteilungen muss auf die Ordnungsnummer folgen.

Jeder besonderen Eintragung im Kataloge muss ein besonderer Zettel entsprechen.

Falls die vorhandenen Unterabteilungen zur gehörigen Katalogisierung nicht hinreichen und



nom d'auteur doit suivre immédiatement le numéro enregistreur.

nome dell'autore deve seguire immediatamente il numero di registrazione.

Exemple—

N 0040.

Ross, R. Malaria and mosquitoes. London, Proc. R. Inst., 16, 1901, (295-313).

Ceci doit être attaché à la fiche de titre et abrégé ainsi :—

N 0040.

Ross, R. Malaria and mosquitoes. (295-313).

Dans les cas où les bureaux régionaux, dans un but quelconque, désirent mettre la référence en entier sur la fiche, le Bureau Central en fera la référence abrégée en biffant les détails superflus.

Sur les fiches portant un numéro en .27 (Distribution Géographique) le numéro enregistreur doit être suivi immédiatement du symbole géographique. Ensuite viendrait (a) le nom d'auteur, (b) le titre du mémoire.

Exemple—

N 2227 *he.*

Pilsbry, H. A. A new Colombian Pleurodonte [*P. clappi*]. Nautilus, Philadelphia, Pa., 15, 1901, (34-35).

Ce qui, conformément aux instructions ci-dessus, sera réduit à :—

N 2227 *he.*

Pilsbry, H. A. A new Colombian Pleurodonte. (34-35).

Les autres numéros enregistreurs, c.à.d. 0060 et ceux en .03, .07, .11, .15, .19 et .23, sont [ divisés en de nombreuses subdivisions. Une de ces subdivisions [ doit suivre le numéro enregistreur.

Il faut une fiche séparée pour chaque article qui doit paraître séparément dans le catalogue.

S'il se trouve que les subdivisions actuelles ne suffisent pas et qu'une nouvelle subdivision serait à désirer,

Esempio—

N 0040.

Ross, R. Malaria and mosquitoes. London, Proc. R. Inst., 16, 1901, (295-313).

Questo si deve attaccare alla scheda a titolo ed abbreviare così :—

N 0040.

Ross, R. Malaria and mosquitoes. (295-313).

Ove gli Uffici Regionali, a qualunque scopo, volessero annotare la riferenza sulla scheda per esteso, la riferenza abbreviata si farebbe dall'Ufficio Centrale col cancellare i dattagli soverchi.

Sulle schede portanti un numero in .27 (Distribuzione Geografica) il numero di registrazione dev'essere seguito immediatamente dal simbolo geografico. Poi verrebbe (a) il nome dell'autore, (b) il titolo della memoria.

Esempio—

N 2227 *he.*

Pilsbry, H. A. A new Colombian Pleurodonte [*P. clappi*]. Nautilus, Philadelphia, Pa., 15, 1901, (34-35).

Giusto le suddette istruzioni questo si ridurrebbe a :—

N 2227 *he.*

Pilsbry, H. A. A new Colombian Pleurodonte. (34-35).

I rimanenti numeri di registrazione, cioè 0060 e quelli in .03, .07, .11, .15 e .23 sono divisi in numerose subdivisions. Una di queste subdivisions deve seguire il numero di registrazione.

Ci vuol una scheda separata per ogni articolo che deve apparire separatamente nel Catalogo.

Nel caso di articoli che non si possono includere nelle subdivisions attuali e per i quali si stima desidera-

division is thought to be desirable, such suggested new sub-division shall be recorded upon the card, in order that the matter may be dealt with by the Central Bureau. In no case must two differently numbered subjects be placed on one slip.

If the book or paper deals with so many of these sub-headings as to render it unnecessary to mention all of them, the word "general" should be used for the sub-heading. The sub-heading should be followed by (a) the author's name, (b) the title or modified title of the paper.

Example—

N 6015 [Regeneration].  
**Lange, C.** Experiments on regeneration [of kidneys]. (Danish) Kjöbenhavn, Biol. Forh., 1899-1900, 1901, (1-8).

If this card is sent to the Central Bureau tied to the corresponding title slip, it should be abbreviated, as explained above, to—

N 6015 [Regeneration].  
**Lange, C.** Experiments on regeneration [of kidneys]. (Danish) (1-8).

(3) *Systematic slips.*—In these slips the name of the animal or animals should immediately follow the registration number. Where more than one genus is mentioned a separate slip must be prepared for each genus.

Every new genus must have a separate slip; the name of the new genus must be followed by the indication "n. gen.," a brief statement as to what it is allied to and some indication of the species it includes, followed by the author's name and reference.

New sub-genera are to be treated in a similar manner to genera, except that "n. subgen." will be used, and the name of the genus of which it is a division will follow.

eine neue Unterabteilung deshalb wünschenswert erscheint, so ist die vorgeschlagene neue Unterabteilung auf dem Zettel anzugeben, damit das Central-Bureau entscheide, wie dabei zu verfahren sei. Auf keinen Fall dürfen zwei verschieden numerierte Gegenstände auf einen Zettel gesetzt werden.

Bezieht sich das Buch, resp. der Aufsatz, auf so viele Unterabteilungen, dass es unzweckmässig ist, sie alle anzuführen, so gebraucht man das Wort „Allgemeines“ für die Unterabteilung. Auf die Unterabteilung folgt (a) der Verfassersname, (b) der Titel, resp. der modifizierte Titel der Arbeit.

Beispiel—

N 6015 [Regeneration].  
**Lange, C.** Experiments on regeneration [of kidneys]. (Danish) Kjöbenhavn, Biol. Forh., 1899-1900, 1901, (1-8).

Wird dieser Zettel mit dem entsprechenden Titel-Zettel zusammengeheftet an das Central-Bureau geschickt, so ist er, wie oben erklärt, folgendermassen abzukürzen:—

N 6015 [Regeneration].  
**Lange, C.** Experiments on regeneration [of kidneys]. (Danish) (1-8).

(3) *System-Zettel.*—Bei diesen Zetteln soll der Name des Tieres oder der Tiere unmittelbar auf die Ordnungsnummer folgen. Wird mehr als eine Gattung erwähnt, so ist für jede Gattung ein besonderer Zettel herzustellen. Jede neue Gattung muss einen besonderen Zettel erhalten; auf den Namen der neuen Gattung folgt die Bemerkung „n. gen.“ eine kurze Notiz, wem sie verwandt ist, und irgend eine Angabe über die Species, die sie umfasst; hierauf Verfassersname und Citat.

Neue Untergattungen sind ähnlich zu behandeln, wie Gattungen, nur dass die Bemerkung „n. subgen.“ gebraucht und der Name der Gattung, um deren Unterabteilung es handelt, hinzugefügt wird,

la nouvelle subdivision que l'on propose doit être indiquée sur la fiche afin que le Bureau Central décide comment il faut procéder. En aucun cas deux articles portant des numéros différents ne doivent être écrits sur la même fiche.

Dans le cas où le livre ou mémoire traite de tant de ces subdivisions qu'il est inutile de les citer toutes, il faut employer le mot "Généralités" pour la subdivision. La subdivision doit être suivie (a) du nom d'auteur, (b) du titre ou du titre modifié du mémoire.

Exemple—

N 6015 [Regeneration].

Lange, C. Experiments on regeneration [of kidneys]. (Danish) Kjöbenhavn, Biol. Forh., 1899-1900, 1901, (1-8).

Si cette fiche est envoyée au Bureau Central attachée à la fiche de titre correspondante elle doit être abrégée, comme il est expliqué ci-dessus, à :—

N 6015 [Regeneration].

Lange, C. Experiments on regeneration [of kidneys]. (Danish) (1-8).

(3) *Fiches systématiques*.—Sur ces fiches le nom de l'animal ou des animaux doit suivre immédiatement le numéro enregistreur. Si mention est faite de plus d'un genre il faut une fiche distincte pour chaque genre.

Chaque genre nouveau doit avoir une fiche distincte; le nom du genre nouveau doit être suivi de l'indication "n. gen.," puis d'une courte indication du genre ou des genres auxquels il est allié et de quelques indications relatives aux espèces qu'il renferme; le tout sera suivi du nom d'auteur et de la référence.

Les sous-genres nouveaux seront traités de la même façon que les genres, mais l'indication "n. gen." sera remplacée par "n. subgen.," et l'on mettra ensuite le nom du genre auquel le sous-genre se rattache.

bilo qualche nuova suddivisione, si deve annotare sulla scheda la nuova suddivisione proposta affinché l'Ufficio Centrale decida come si debba comportare con essa. In nessun caso si devono porre sulla stessa scheda due soggetti portanti numeri diversi.

Se il libro o la memoria si riferisce a tante di queste suddivisioni che non fa d'uopo accennarle tutto, allora si pone per la suddivisione la parola "generale." La suddivisione dev' essere seguita (a) dal nome dell'autore, (b) dal titolo, ossia dal titolo modificato, del lavoro.

Esempio—

N 6015 [Regeneration].

Lange, C. Experiments on regeneration [of kidneys]. (Danish) Kjöbenhavn, Biol. Forh., 1899-1900, 1901, (1-8).

Se questa scheda si manda all'Ufficio Centrale attaccata alla scheda a titolo corrispondente si deve abbreviare, come si è spiegato qui sopra, a :—

N 6015 [Regeneration].

Lange, C. Experiments on regeneration [of kidneys]. (Danish) (1-8).

(3) *Schede sistematiche*.—Su queste schede il nome dell'animale o degli animali deve seguire immediatamente il numero di registrazione. Se si fa menzione di più di un genere bisogna far una scheda separata per ogni genere.

Ciascun nuovo genere deve avere una scheda separata; il nome del nuovo genere dev' essere seguito dalla indicazione "n. gen.," poi viene una breve indicazione di quello cui esso si connette, e qualche indicazione delle specie che include, e segue infine il nome dell'autore e le referenze.

I nuovi sottogeneri saranno trattati in modo simile ai nuovi generi, ma sarà adoperata la indicazione "n. subgen.," e seguirà il nome del genere del quale il sottogenere è divisione.

The author's name should follow the title or modified title on these slips.

Examples—

(I) N 2631.

*Amblyops crozetii*, bipolar occurrence. Ohlin, A. Ann. Mag. Nat. Hist., London, (Ser. 7), 7, 1901, (371-374).  
[Schizopoda.]

(II) N 4431.

*Heterephrya neximargo*, sp. n. Peru. Warren, W. Nov. Zool., Tring, 8, 1901, (457).  
[Geometridae.]

When more than one new species is described from the same genus, all the new species should be mentioned on the slip and the respective page references given. Where only one new species is mentioned the slip should be arranged as in Example II. In any case the habitat should be given where possible.

At the end of each slip the name of the group of animals referred to should be given. When the work gives no indication of the group (i.e., Family, Sub-family or Tribe) and the slip-maker cannot from his own knowledge supply the deficiency the sign [?] may be written at the end of the slip.

When it is undesirable to index each genus separately a general entry should be given.

Example—

N 4431.

Hoyningen-Huene, F. von. Aberrationen einiger estländischer Eulen und Spanner. Berliner ent. Zs., 46, 1901, (309-319, mit 1 Taf.).  
[Noctuidae.]

On systematic slips Christian names should be represented by initials only.

Slips relating to fossil forms are to be marked †, and slips relating to fossil and recent forms †\*. (The latter condition occurs only rarely in this division.)

Bei diesen Zetteln sollte der Verfassersname auf den Titel oder modifizierten Titel folgen.

Beispiele—

(I) N 2631.

*Amblyops crozetii*, bipolar occurrence. Ohlin, A. Ann. Mag. Nat. Hist., London, (Ser. 7), 7, 1901, (371-374).  
[Schizopoda.]

(II) N 4431.

*Heterephrya neximargo* sp. n. Peru. Warren, W. Nov. Zool., Tring, 8, 1901, (457).  
[Geometridae.]

Wird mehr als eine neue Art derselben Gattung beschrieben, so sollen sämtliche neue Arten, mit Angabe der betreffenden Seiten-Zahlen, auf dem Zettel erwähnt werden. Wo es sich bloß um eine neue Art handelt, ist der Zettel wie in Beispiel II herzustellen. Das Habitat ist auf jeden Fall wenn möglich anzugeben.

Am Ende eines jeden System-Zettels ist der Name der betreffenden Tiergruppe anzuführen. Enthält die Arbeit keine Angabe der Gruppe (d.h. Familie, Unterfamilie oder Tribus) und ist der Zettelschreiber nicht im stande, aus eigener Kenntniss die Lücke auszufüllen, so kann das Zeichen [?] an das Ende des Zettels gesetzt werden. Ist die gesonderte Angabe einer jeden Gattung nicht wünschenswert, so ist eine allgemeine Bezeichnung zu geben.

Beispiel—

N 4431

Hoyningen-Huene, F. von. Aberrationen einiger estländischer Eulen und Spanner. Berliner ent. Zs., 46, 1901, (309-319, mit 1 Taf.).  
[Noctuidae.]

Auf den System-Zetteln sollen die Vornamen nur durch Anfangsbuchstaben wiedergegeben werden.

Zettel, die sich auf fossile Formen beziehen, sind durch ein † zu bezeichnen; solche, die sich sowohl auf fossile als auf recente Formen beziehen, durch ein †\*. (Der letzte Fall kommt in diesem Abschnitt nur selten vor.)

Le nom d'auteur doit *suivre* le titre ou le titre modifié sur ces fiches.

Exemples—

(I) N 2631.

*Amblyops crozetii*, bipolar occurrence. Ohlin, A. Ann. Mag. Nat. Hist., London, (Ser. 7), 7, 1901, (371-374).  
[Schizopoda.]

(II) N 4431.

*Heterephrya neximargo* sp. n. Peru. Warren, W. Nov. Zool., Tring, 8, 1901, (457).  
[Geometridae.]

Quand il y a description de plus d'une espèce du même genre, toutes les espèces nouvelles doivent être portées sur la fiche avec le renvoi aux pages respectives. S'il ne s'agit que d'une seule espèce nouvelle la fiche doit être établie conformément à exemple II. L'habitat doit être indiqué en tout cas si possible. L'on devra placer à la fin de chaque fiche systématique le nom du groupe d'animaux auquel la fiche se rapporte. Quand l'ouvrage ne fournit aucune indication de groupe (famille, sous-famille ou tribu) et lorsque le rédacteur de la fiche ne peut, d'après ses propres connaissances, suppléer à ce défaut d'indications, l'on pourra mettre le signe [?] à la fin de la fiche.

S'il n'est pas à désirer que chaque genre soit catalogué séparément il faut établir un article général.

Exemple—

N 4431.

Hoyningen-Huene, F. von. Aberrationen einiger estländischer Eulen und Spanner. Berliner ent. Zs., 46, 1901, (309-319, mit 1 Taf.).  
[Noctuidae.]

Sur les fiches systématiques les noms de baptême doivent être représentés par des initiales seulement.

Les fiches relatives aux formes fossiles doivent être marquées †, et celles qui se rapportent aux formes fossiles récentes †\*. (Cette dernière condition ne se présente que rarement dans cette division.)

Su queste schede il nome dell'autore deve venire *dopo* il titolo o titolo modificato.

Esempi—

(I) N 2631.

*Amblyops crozetii*, bipolar occurrence. Ohlin, A. Ann. Mag. Nat. Hist., London, (Ser. 7), 7, 1901, (371-374).  
[Schizopoda.]

(II) N 4431.

*Heterephrya neximargo* sp. n. Peru. Warren, W. Nov. Zool., Tring, 8, 1901, (457).  
[Geometridae.]

Quando si descrive più di una specie nuova del medesimo genere, tutte le specie nuove devono venire accennate sulla scheda colla riferenza alle pagine rispettive. Trattandosi di una sola specie nuova, la scheda dev' essere redatta come in esempio II. In ogni caso per quanto sia possibile, si deve menzionare il habitat.

Al fine di ciascuna scheda sistematica si deve porre il nome del gruppo di animali cui la scheda si riferisce. Quando il lavoro non porta indicazione del gruppo (cioè famiglia, sottofamiglia, triù) o il redattore della scheda non può di suo supplire alla deficienza, si può mettere al fine della scheda il segno [?].

Quando non si vuole catalogare separatamente ogni genere, si farà un' annotazione generale.

Esempio—

N 4431.

Hoyningen-Huene, F. von. Aberrationen einiger estländischer Eulen und Spanner. Berliner ent. Zs., 46, 1901, (309-319, mit 1 Taf.).  
[Noctuidae.]

I nomi di battesimo devono essere rappresentati sulle schede sistematiche colle sole iniziali.

Le schede relative a forme estinte saranno segnate †, e le schede relative a forme estinte e viventi †\*. (L'ultima condizione occorre soltanto raramente in questa divisione.)

(4) *Lists of New Genera and Species.*—For the preparation of these lists, the Regional Bureaus should give the names of genera and sub-genera (a) which are new, (b) the significance of which has been changed, (c) which contain new species. These may be written at the foot of the systematic slips, but it would greatly facilitate an earlier production of the volume if the Regional Bureaus would write each new genus on a separate card and attach it to the systematic slip.

#### *Date of Receiving Slips.*

The period during which the material for any one year will be received at the Central Bureau will not extend beyond June of the following year. Regional Bureaus are therefore earnestly requested to complete the indexing of their zoological literature within the time named.

The period covered by the literature indexed in any one of the annual volumes shall be from January 1st to December 31st of the particular year, but any matter which had not been received in time for insertion in the previous volume shall also be included therein.

#### *Distinctive Character of cards.*

The editorial work will be greatly facilitated by ruling a red line near the left-hand edge of the title slips, a green line near the left-hand edge of the subject slips, and no line at all on the taxonomy and new species slips. Or the slips may be printed on thin card of three colours, viz., red for the title slips, green for the subject slips, and white for the systematic slips. The size of the slips must be 16 cm. by 8 cm.

(4) *Listen neuer Gattungen und Arten.*—Zur Herstellung dieser Listen sollten die Regionalbureaus die Namen der Gattungen und Untergattungen angeben, (a) die neu sind, (b) deren Bedeutung sich geändert hat, (c) die neue Arten enthalten. Diese können am Fusse der System-Zettel angeführt werden, es würde jedoch zur schnelleren Erscheinung des Bandes wesentlich beitragen, wenn die Regionalbureaus jede neue Gattung auf einem besonderen Zettel schrieben und diesen an den System-Zettel hefteten.

#### *Termin des Empfangs der Zettel.*

Das Material für irgend ein Jahr darf nicht später als Ende Juni des folgenden Jahres in den Besitz des Centralbureaus gelangen. Die Regionalbureaus werden daher dringend ersucht, mit dem Katalogisieren ihrer zoologischen Literatur bis zu dem genannten Termin fertig zu werden.

Die in irgend einem der jährlichen Bände veröffentlichte Litteratur soll die Periode vom 1. Januar bis zum 31. December des betreffenden Jahres decken, etwaige Artikel aber, die für den vorigen Band zu spät eintrafen, werden darin mit aufgenommen.

#### *Markierung der Zettel.*

Die Herausgabe wird bedeutend erleichtert werden, wenn auf den Titel-Zetteln nahe dem linken Rande eine rothe Linie, auf den Sach-Zetteln entsprechend eine grüne Linie gezogen wird, während die Taxonomic- und Arten-Zettel ohne Linie bleiben. Man kann auch die Zettel auf drei verschiedenfarbige Sorten Carton drucken, nämlich die Titel-Zettel auf roten, die Sach-Zettel auf grünen und die System-Zettel auf weissen.

Die Zettel müssen 16 × 8 cm. gross sein.

(4) *Listes des genres et espèces nouvelles.*—Pour la rédaction de ces listes les Bureaux Régionaux doivent donner les noms des genres et sous-genres (a) qui sont nouveaux, (b) dont la signification est changée, (c) qui contiennent des espèces nouvelles. Ils peuvent être écrits au pied des fiches systématiques, pourtant si les Bureaux Régionaux voulaient écrire chaque genre nouveau sur une fiche séparée et l'attacher à la fiche systématique, cela contribuerait beaucoup à accélérer la publication du volume.

(4) *Elenchi di Generi e Specie nuove.*—Per la redazione di questi elenchi gli Uffici Regionali devono dare i nomi dei generi e sottogeneri, (a) che sono nuovi, (b) il cui significato si è cambiato, (c) che contengono delle specie nuove. Questi possono essere scritti in fondo alle schede sistematice, ma contribuirebbe molto ad accelerare la pubblicazione del tomo se gli Uffici Regionali scrivessero ogni genere nuovo sopra una scheda separata e attaccassero questa alla scheda sistematica.

#### *Date de la réception des fiches.*

La période pendant laquelle les matières pour une année quelconque seront admises par le Bureau Central ne s'étendra pas au-delà du mois de juin de l'année suivante. Aussi les Bureaux Régionaux sont-ils instamment priés de compléter l'index de leur littérature zoologique avant l'expiration de ce terme.

La littérature indexée dans un volume annuel quelconque comprendra la période du 1er janvier au 31 décembre de l'année en question, ainsi que les articles qui étaient arrivés trop tard pour être incorporés dans le volume précédent.

#### *Caractère distinctif des fiches.*

Le travail du Directeur sera grandement facilité si l'on trace une ligne rouge près du bord gauche des fiches de titre, une ligne verte près du bord gauche des fiches de matière, et si l'on ne trace aucune ligne sur les fiches systématiques et sur les fiches pour les espèces nouvelles. On peut aussi imprimer les fiches sur des cartons minces de trois couleurs, savoir, une carte rouge pour les fiches de titre, une carte verte pour les fiches de matière, et une carte blanche pour les fiches systématiques.

Les dimensions des fiches doivent être de 16 cm. sur 8 cm.

(N-9720)

#### *Data di ricezione delle schede.*

Il periodo durante il quale il materiale per un anno qualunque sarà ammesso dall' Ufficio Centrale non si stenderà in là di Giugno dell'anno seguente. Gli Uffici Regionali sono perciò pregati con istanza di completare il catalogo della loro letteratura zoologica dentro del detto termine.

La letteratura catalogata in un tomo annuale qualunque comprenderà il periodo dal 1° Gennaio al 31 Dicembre dell' anno di cui si tratta, coll' aggiunto di quegli articoli che fossero ricevuti troppo tardi per essere inclusi nel tomo precedente.

#### *Carattere distintivo delle schede.*

Il lavoro dell' Ufficio Centrale sarà grandemente facilitato dal segnare il margine sinistro delle schede a titolo con una linea rossa, quello delle schede a soggetto con una verde, e dal lasciare senza linea le schede tassonomiche e quelle per le specie nuove. Oppure le schede potranno essere scritte su carta di tre colori, rosso, verde, e bianco, il primo per le schede a titolo, il secondo per quelle a soggetto, il terzo per quelle sistematiche.

Il formato delle schede devlessere di 16 per 8 centimetri di lato.

o

0000-0231. **Comprehensive Zoology.**

N.B.—The subjects enumerated under numbers 0000 to 0231 may recur in any one of the subsequent Branches. In the Catalogue only works that deal with several Branches will be registered under numbers 0000 to 0231; hence the term "Comprehensive Zoology."

**HYPERZOOLOGY.**

- 0000 Philosophy.  
 0010 History. Biography.  
 0020 Periodicals. Reports of Institutions, Societies, Congresses, Explorations.  
 0030 General Treatises, Text-books, Dictionaries, Collected Works, Tables.  
 0032 Bibliographies.  
 0040 Addresses, Lectures, etc., of a general character.  
 0050 Pedagogy.  
 0060 Institutions, Museums, Collections, Aquaria, Gardens, Utility and Harmfulness, Zoology in relation to Medicine, etc. (*See also the general sections of Special Zoology.*)  
 0070 Nomenclature (principles of).  
 0090 Technique. Methods of research, instruments and apparatus.  
 0207 **STRUCTURE (OR MORPHOLOGY).** [In general or of more than one of the classes of animals.] (*See also (L) General Biology (O) Anatomy and (Q) Physiology.*)

General; Comparative Anatomy; Special Anatomy and Histology; Tegument and its Organs; Nervous System and Organs of Sense; Myology; Skeleton (including Osteology and Dentition); Skeletal Structures of Invertebrates; Alimentary System; Circulatory and Respiratory Organs; Water Vascular System, Blood, Lymph, Cœlomic Fluid, Chyle. Special Glands; Excretory Organs; Reproductive Organs; Special External Characters; Colour. Rudimentary or Vestigial Organs, and Organs of uncertain nature.

0000-0231. **Allgemeine Zoologie.**

N.B.—Die unter Nr. 0000 bis 0231 aufgeführten Gegenstände können in jedem der nachfolgenden Zweige wiederkehren. Unter Nr. 0000-0231 bringt der Katalog nur solche Arbeiten, die mehrere Zweige behandeln. Daher der Ausdruck „Allgemeine Zoologie.“

**HYPERZOOLOGIE.**

- Philosophie.  
 Geschichte. Biographien.  
 Periodica. Berichte von Instituten, Gesellschaften, Kongressen, Forschungsreisen etc.  
 Allgemeine Abhandlungen, Lehrbücher, Wörterbücher, Sammelwerke, Tabellen.  
 Bibliographien.  
 Festreden, Vorträge u.s.w., allgemeiner Art.  
 Pädagogik.  
 Institute, Museen, Sammlungen, Aquarien, Gärten, Nützlichkeit und Schädlichkeit, Zoologie in Beziehung zur Medizin etc. (*Siehe auch die allgemeinen Abteilungen der speziellen Zoologie.*)  
 Nomenklatur (Prinzipien).  
 Technik. Untersuchungsmethoden. Instrumente and Apparate.  
**STRUKTUR (ODER MORPHOLOGIE).** [Im allgemeinen oder von mehreren Tierklassen.] (*Siehe auch (L) Allgemeine Biologie, (O) Anatomie und (Q) Physiologie.*)

Allgemeines; Vergleichende Anatomie; Spezielle Anatomie und Histologie; Tegument und seine Organe; Nervensystem und Sinnesorgane; Myologie; Skelett (einschl. Osteologie und Zahnbildung); Inneres Skelett bei Wirbellosen; Ernährungssystem; Circulations- und Respirationsorgane; Wassergefäßsystem, Blut, Lymphe, Cœlomflüssigkeit, Chylus. Spezielle Drüsen; Excretions-Organe; Reproduktive Organe; Spezielle äussere Charaktere; Farbe. Rudimentäre oder unentwickelte Organe und Organe ungewisser Natur.



## 0000-0231. Zoologie générale.

## 0000-0231. Zoologia comprensiva.

N.B.—Les sujets énumérés sous les indices 0000 à 0231 peuvent être représentés dans chacune des "branches" suivantes; mais c'est seulement les ouvrages ayant trait à plusieurs "branches" qui doivent être catalogués sous les numéros 0000 à 0231; de là le terme de "Zoologie générale."

I soggetti designati coi numeri 0000 a 0231 possono ricorrere in ognuno dei seguenti rami. Nel catalogo, tuttavia, soltanto i lavori che trattano di diversi rami saranno registrati sotto i numeri 0000 a 0231; di qui il termine "Zoologia comprensiva."

## HYPERZOOLOGIE.

- 0000 Philosophie.  
 0010 Histoire. Biographie.  
 0020 Périodiques. Rapports d'Institutions, de Sociétés, de Congrès, d'Explorations, etc.  
 0030 Traités généraux, Manuels, Dictionnaires, Recueils, Tables.  
 0032 Bibliographies.  
 0040 Discours, Cours, etc., d'un caractère général.  
 0050 Enseignement.  
 0060 Institutions, Musées, Collections, Aquaria, Jardins, Utilité et Nocuité. Zoologie en rapport avec la Médecine, etc. (*Voy aussi* les sections générales de la Zoologie spécialc.)  
 0070 Nomenclature (principes de).  
 0090 Technique. Méthodes de recherche, instruments et appareils.  
 0207 STRUCTURE (OU MORPHOLOGIE). [En général ou dans plusieurs classes d'animaux.] (*Voy. aussi* (L) Biologie Générale, (O) Anatomie et (Q) Physiologie.)

Généralités; Anatomie comparée; Anatomie spéciale et Histologie (*ex.* organes tégmentaires); Système nerveux et organes des sens; Myologie; Squelette (y compris Ostéologie et Dentition); Structure des Invertébrés; Système digestif; Appareils de la circulation et de la respiration; Système aquifère vasculaire, sang, lymphé, liquide de la cavité générale, chyle. Glandes spéciales: Organes d'excrétion; Organes de reproduction; Organes externes spéciaux; Couleur. Organes rudimentaires ou vestiges d'organes anciens; Organes de nature incertaine.

## IPERZOOLOGIA.

- Filosofia.  
 Storia. Biografia.  
 Periodici. Resoconti di Istituti, Società, Congressi, Esplorazioni.  
 Trattati generali, Libri di testo, Dizionari, Raccolte, Tavole.  
 Bibliografie.  
 Discorsi, Letture, etc., aventi un carattere generale.  
 Pedagogia.  
 Istituti, Musei, Collezioni, Aquaria, Giardini, Utilità e Nocività. Zoologia in rapporto alla medicina. (*Vedi anche* le sezioni generali della Zoologia speciale.)  
 Principi di Nomenclatura.  
 Tecnica. Metodi di ricerca, strumenti ed apparati.  
 STRUTTURA (O MORFOLOGIA). [In generale oppure di più di una classe di animali.] (*Vedi anche* (L) Biologia Generale, (O) Anatomia e (Q) Fisiologia.)

Generalità; Anatomia comparata; Anatomia speciale o Istologia; Tegumento e suoi organi; Sistema nervoso e organi di senso; Miologia; Scheletro (*incl.* Osteologia e Dentizione); Strutture interne scheletriche degli invertebrati; Apparecchio alimentare; Organi della circolazione e della respirazione; Sistema acquifero vascolare, Sangue, Linfa, Liquido celomatico, Chilo; Glandole speciali; Organi escretori; Organi riproduttivi. Caratteri speciali esterni; Colore. Organi rudimentali e in vestigio e organi di natura incerta.

- 0211 **PHYSIOLOGY** [of the Animal Kingdom, or of more than one of its Branches]. (*See also* (Q) Physiology.)

[Physiology will be treated as a separate science. In zoology it is therefore only necessary to collect those physiological memoirs that specially interest zoologists; hence a detailed division is superfluous, but the following may be cited as examples to come under this heading.]

General; Production of Sex; Production of Caste; Function of Sense Organs; Function of Special Organs and Structures, e.g., of Glands; Assimilation; Respiration; Environmental Effects; Change of Function; Adaptation. Duration of Life; Senescence; Death.

- 0215 **DEVELOPMENT.** [General works on more than one of the Branches.] (*See also* L 2000-5900; O 1500-1940.)

General; Budding and Asexual Reproduction; Oogenesis and Ovum; Spermatogenesis and Spermatozoon; Phenomena of Fertilization; Parthenogenesis; Embryology, Organogeny and Histogeny; Metamorphosis and Larval Forms; Post-embryonic Ontogeny; Alternation of Generations; Pædogensis; Dissogony; Cycles of Generations; Changes during Life; Regeneration; Hermaphroditism.

For cell-structure and processes *see* (L) General Biology—Cytologie.

- 0219 **ETHOLOGY.** [Works dealing with one or more of the following subjects, and relating to more than one Branch of the Animal Kingdom.]

General; Habits; Phenology; Migration and Nonmigration; Hibernation; Parental Relations; Sexual Relations; Sexual Dimorphism; Oviposi-

- PHYSIOLOGIE** [des Tierreichs oder mehrerer seiner Zweige]. (*Siehe auch* (Q) Physiologie.)

[Physiologie wird als besondere Wissenschaft behandelt werden. In „Zoologie“ brauchen daher nur solche physiologische Abhandlungen aufgeführt zu werden, die speciell den Zoologen interessieren. Darum ist eine detaillierte Einteilung hier überflüssig, doch mag das Folgende als Beispiel dienen.]

Allgemeines; Hervorbringung des Geschlechtes, der Rasse; Funktion der Sinnesorgane; Funktion besonderer Bildungen, z. B. Drüsen; Assimilation; Atmung; Wirkung der Umgebung; Funktionswechsel; Anpassung. Lebensdauer; Altern; Tod.

- ENTWICKELUNG.** [Allgemeine Werke über mehr als einen der Zweige.] (*Siehe auch* L 2000-5900; O 1500-1940.)

Allgemeines; Knospenbildung und ungeschlechtliche Fortpflanzung; Oogenesis und Ovum; Spermatogenesis und Spermatozoon; Befruchtungs-Phänomene; Parthenogenesis; Embryologie, Organogenie und Histogenie; Metamorphose und Larvenformen; postembryonale Ontogenie; Generationswechsel; Pædogensis; Dissogonie; Generations-Cyklen; Veränderungen während des Lebens; Regeneration; Hermaphroditismus.

Zell-Struktur und -Prozesse *siehe* (L) Allgemeine Biologie—Cytologie.

- ETHOLOGIE.** [Arbeiten, die einen oder mehrere der folgenden Gegenstände behandeln und sich auf mehr als einen Zweig des Tierreichs beziehen.]

Allgemeines; Lebensgewohnheiten; Phänologie; Wanderung und Nichtwanderung; Winterschlaf; Beziehungen zwischen Eltern und Nachkommenschaft;

0211 **PHYSIOLOGIE** [du règne animal ou de plusieurs branches du règne animal]. (*Voy. aussi* (Q) Physiologie.)

[La Physiologie doit être traitée comme une science distincte; en conséquence, en Zoologie il ne sera nécessaire de relever que les mémoires de physiologie qui intéressent spécialement les zoologistes; une division détaillée est donc superflue, néanmoins on peut citer la suivante comme exemple]

Généralités; Production des sexes; Formation des genres; Fonctions des organes des sens; Fonctions des organes de structure spéciale (*ex.* des glandes); Assimilation; Respiration; Influence du milieu; Changement de fonction; Adaptation; Durée de la vie; Sénescence; Mort.

0215 **DÉVELOPPEMENT**. [Ouvrages généraux ayant trait à plusieurs "branches."] (*Voy. aussi* L 2000-5900; O 1500-1940.)

Généralités; Bourgeonnement et reproduction asexuée; Oogenèse et œuf; Spermatogenèse et Spermatozoïdes; Phénomènes de fécondation; Parthénogenèse; Embryologie, organogénie et histogénie; Métamorphose et formes larvaires; Ontogénie postembryonnaire; Générations alternantes; Pædogénèse; Dissogonie; Cycles de générations; Changements pendant la vie; Régénération; Hermaphroditisme.

Pour la structure et les processus cellulaires *voir* (L) Biologie générale—Cytologie.

0219 **ETHOLOGIE**. [Ouvrages traitant d'un ou de plusieurs des sujets suivants et se rapportant à un ou à plusieurs embranchements du règne animal].

Généralités; Habitudes; Phénologie; Migration et non-migration; Hibernation; Relations de parenté; Relations sexuelles; Dimorphisme sexuel; Ponte;

**FISIOLOGIA** [del Regno animale o di più di uno dei suoi rami]. (*Vedi anche* (Q) Fisiologia).

[La fisiologia sarà trattata come una scienza separata. Nella zoologia è perciò soltanto necessario raccogliere quelle memorie di fisiologia che più specialmente possono interessare lo zoologo; quindi una divisione particolareggiata è superflua, ma ciò che segue può rappresentare la divisione di questo capitolo.]

Generalità; Produzione dei sessi; Produzione di caste; Funzione degli organi di senso; Funzione di speciali organi, *p. es.* le glandule; Assimilazione; Respirazione; Effetti dell'ambiente; Cambiamento di funzione; Adattamento. Durata della vita; Senescenza; Morte.

**SVILUPPO**. [Lavori generali su più di uno dei rami.] (*Vedi anche* L 2000-5900; O 1500-1940.)

Generalità; Gemmazione e riproduzione asexuale; Oogenesi e Uovo; Spermatogenesi e Spermatozoide; Fenomeni di Fecondazione; Partenogenesi; Embriologia, organogenia ed istogenia; Metamorfosi e forme larvali; Ontogenia postembryonale; Alternanza delle generazioni; Pedogenesi; Dissogonia; Cicli delle generazioni; Cambiamenti durante la vita; Rigenerazione; Ermafroditismo.

Per la struttura cellulare e i processi di sviluppo *vedi* (L) Biologia generale—Citologia.

**ETOLOGIA**. [Lavori aventi a che fare con uno o più dei soggetti seguenti o relativi ad uno o più rami del regno animale.]

Generalità; Abitudini; Fenologia; migrazione e non migrazione; ibernazione; rapporti parentali; rapporti sessuali; dimorfismo sessuale

tion; Voice; Sound Production; (*see also* Q 4145). Luminosity; (*see also* Q 0260). Habitat with sub-divisions, *e.g.*, Cavernicolous Animals, Pelagic and Deep-sea Animals (plankton), etc.; Instinct and Psychology; Social Relations; Gregariousness; Symbiosis; (*see also* L 5550; Q 0285; R 1640); Parasitism; Defensive Processes (including Protective Coloration, Mimicry and Protective Resemblance); Ornament and Colour; Breeding and Acclimatisation.

0223 VARIATION AND ÆTIOLOGY. [Works dealing with one or more of the following subjects and relating to more than one Branch of the Animal Kingdom.] (*See also* (L) General Biology, and (Q) Physiology.)

General; Substantive variation; size, proportions, form, colour, etc. Meristic variations; numerical [meristic proper]; homoeotic; teratological. Bionomic variation; of fertility; of time of appearance; of maturity; of development; of habits. Phylogeny.

Or indexed alternatively or supplementally, with reference to treatment—descriptive, statistical, mathematical; geographical or stational.

Heredity. Grafts. Crosses and Hybrids. In-breeding. Telegony. Evolution. (*See also* K 0200; L 4300.)

0227 GEOGRAPHICAL ZOOLOGY. Geographical Distribution. [Works relating to the principles and modes of distribution.]

Topographical Zoology. [Works relating to the Fauna of one or more of the sub-divisions used in (J) Geography, and dealing

Sexuelle Beziehungen; Sexueller Dimorphismus; Eiablage; Stimme; Hervorbringung von Lauten (*siehe auch* Q 4145); Leuchtvermögen (*siehe auch* Q 0260); Habitat mit Unterabteilungen, z. B. Höhlentiere, pelagische und Tiefsee-Tiere (Plankton) u. s. w.; Instinkt und Psychologie; Soziale Beziehungen; Heerdenleben; Symbiose (*siehe auch* L 5550; Q 0285; R 1640); Parasitismus; Verteidigungs-Prozesse (einschl. Schutzfärbung, Mimicry und schützende Aehnlichkeiten); Schmuck und Farbe; Züchtung und Akklimatisation.

VARIATION AND ÆTIOLOGIE. [Arbeiten, die einen oder mehrere der folgenden Gegenstände behandeln und sich auf mehr als einen Zweig des Tierreichs beziehen.] (*Siehe auch* (L) Allgemeine Biologie und (Q) Physiologie.)

Allgemeines; Substantielle Variation; Grösse, Proportionen, Form, Farbe etc. Meristische Variationen; numerische (meristische im eigentlichen Sinne); homoeotische; teratologische. Bionomische Variation; in Hinsicht auf Fruchtbarkeit, auf Erscheinungszeit; auf Zeit der Reife; auf Entwicklung; auf Lebensgewohnheiten. Phylogenie.

Hierneben oder als Ergänzung eine Einteilung mit Rücksicht auf die Art der Behandlung—ob descriptiv, statistisch, mathematisch; geographisch oder nach Standort.

Vererbung. Pfropfen. Kreuzungen und Bastardbildungen. Inzucht. Telegonie. Evolution. (*Siehe auch* K 0200; L 4300.)

GEOGRAPHISCHE ZOOLOGIE. Geographische Verbreitung. [Arbeiten, die sich auf die Prinzipien und die Arten der Verbreitung beziehen.]

Topographische Zoologie. [Arbeiten, die sich auf die Fauna einer oder mehrerer der Unterabteilungen in (J) Geographie,

Voix; Productions des sons; (*Voy aussi* Q 4145.) Production de la lumière; (*Voy. aussi* Q 0260.) Habitat avec subdivisions, *ex.* Animaux cavernicoles; Animaux pélagiques et des zones abyssales (plankton), etc.; Instinct et Psychologie; Relations sociales; Instincts sociaux; Symbiose; (*Voy. aussi* L 5550; Q 0285; R 1640); Parasitisme; Procédés de défense; Ressemblance (y compris la coloration protectrice, le mimétisme et la ressemblance protectrice); Ornaments et couleur; Elevage et acclimatation.

0223 VARIATION ET ETIOLOGIE. [Ouvrages traitant d'un ou de plusieurs des sujets suivants, et ayant trait à plus d'une branche du règne animal.] (*Voy. aussi* (L) Biologie Générale et (Q) Physiologie.)

Généralités; Variations traitées en elles-mêmes; Taille, proportions, forme, couleur, etc. Variations méristiques; variations numériques (méristiques proprement dites); homéotiques; tératologiques. Variations bionomiques, variations de fécondité; variations dans l'époque d'apparition, la maturité, le développement, les habitudes. Phylogénie.

Variations traitées d'une façon supplémentaire dans les ouvrages descriptifs, statistiques, mathématiques, géographiques.

Hérédité. Greffes. Croisements et Hybrides. Unions consanguines. Télégonic. Évolution. (*Voy. aussi* K 0200; L 4300.)

0227 ZOOLOGIE GÉOGRAPHIQUE.

Distribution géographique des animaux. [Ouvrages ayant trait aux principes et aux modes de distribution géographique.]

Zoologie topographique. [Ouvrages ayant trait à la faune d'une ou de plusieurs des subdivisions employées en (J)

oviposizione; voce; produzione di suoni (*v. anche* Q 4145); luminosità (*v. anche* Q 0260); Habitat con suddivisioni, *p. es.* animali cavernicoli, animali pelagici e delle zone abissali (plankton), etc.; istinto e psicologia; rapporti sociali; istinti gregarii; simbiosi (*v. anche* L 5550; Q 0285; R 1640); parasitismo; processi difensivi (compresi la colorazione protettiva, il mimetismo e la rassomiglianza protettiva); ornamenti e colore; Allevamento ed acclimatazione.

VARIAZIONE ED ETIOLOGIA. [Lavori aventi a che fare con uno o più dei soggetti seguenti e relativi ad uno o più rami del regno animale.] (*Vedi anche* (L) Biologia Generale o (Q) Fisiologia.)

Generalità; Variazione sostanzialmente considerata; dimensioni, proporzioni, forma, colore, etc. Variazioni meristiche; numeriche (meristiche vero e proprie); omecliche; per teratologia. Variazioni bionomiche; di fecondità; di epoca di apparizione; di maturità; di sviluppo; di abitudini. Filogenia.

Oppure considerata alternativamente e supplementariamente sotto il punto di vista descrittivo, statistico, matematico, geografico o stazionario.

Eredità. Innesti. Incrociamenti e ibridismi. Consanguineità. Telegonia. Evoluzione. (*Vedi anche* K 0200; L 4300.)

ZOOLOGIA GEOGRAFICA.

Distribuzione geografica. [Lavori relativi ai principi e ai modi di distribuzione.]

Zoologia topografica. [Lavori relativi alla Fauna di una o più delle suddivisioni adottate in (J) Geografia, e riferentisi a

with more than one of the Branches of Zoology.]

beziehen und mehr als einen Zweig der Zoologie umfassen.]

0231 **TAXONOMY or CLASSIFICATION** in general.

[In this are to be placed works dealing with the principles of zoological classification; works discussing the classification of more than one of the Branches; works dealing with the relations of the great groups of existing animals; phylogenetic classification, *i.e.*, the relations in time of the great groups of animals. Works relating to the classification of only one of the Branches are to be dealt with in that Branch.]

**TAXONOMIE ODER KLASSIFIKATION** IM ALLGEMEINEN.

[Hierher sind Arbeiten zu stellen, welche die Prinzipien der zoologischen Klassifikation behandeln; ferner Arbeiten, welche die Klassifikation von mehr als einem der Zweige diskutieren; Arbeiten, welche die Beziehungen der grossen Gruppen der lebenden Tierwelt behandeln; phylogenetische Klassifikation, *d. h.* die zeitlichen Beziehungen der grossen Tiergruppen. Dagegen sind Arbeiten, die sich auf die Klassifikation eines einzelnen Zweiges beziehen, bei diesem zu erledigen.]

0400-6031 **Special Zoology.**

0400-6031 **Spezielle Zoologie.**

0400-0431 **Protozoa.** (*See also* R 1200.)

**Protozoa.** (*Siehe auch* R 1200.)

The principal divisions are:—

Mycetozoa; Rhizopoda (Radiolaria, Heliozoa, Foraminifera, Amœbaea, Proteomyxa); Sporozoa (Gregarinida, Coccidiidea, Haemosporida, Myxosporidia, Sarcosporidia); Mastigophora (Flagellata, Dinoflagellata); Infusoria (Acinetaria, Ciliata).

Hauptabteilungen sind:—

Mycetozoa; Rhizopoda (Radiolaria, Heliozoa, Foraminifera, Amœbaea, Proteomyxa); Sporozoa (Gregarinida, Coccidiidea, Haemosporida, Myxosporidia, Sarcosporidia); Mastigophora (Flagellata, Dinoflagellata); Infusoria (Acinetaria, Ciliata).

0600-0631 **Porifera (or Spcngida).**

The principal divisions are:—

Calcarea; Hexactinellida; Demospongiae (Carnosa, Tetractinellida, Monaxonida, Keratosa, Myxospongida).

**Porifera (oder Spengida).**

Hauptabteilungen sind:—

Calcarea; Hexactinellida; Demospongiae (Carnosa, Tetractinellida, Monaxonida, Keratosa, Myxospongida).

0300-0831 **Coelenterata (or Cnidaria).**

The principal divisions are:—

Graptolites; Hydromedusae; Scyphomedusae; Monticuliporidae; Stromatoporidae; Alcyonaria; Zoantharia; Ctenophora.

**Cœlenterata (oder Cnidaria).**

Hauptabteilungen sind:—

Graptolites; Hydromedusae; Scyphomedusae; Monticuliporidae; Stromatoporidae; Alcyonaria; Zoantharia; Ctenophora.

1000-1031 **Echinodermata.**

The principal divisions are:—

Cystoidea; Crinoidea; Blastoida; Asteroidea; Ophiuroidea; Echinoidea; Holothurioida.

**Echinodermata.**

Hauptabteilungen sind:—

Cystoidea; Crinoidea; Blastoida; Asteroidea; Ophiuroidea; Echinoidea; Holothurioida.

Géographie et ayant trait à plus d'une branche de la Zoologie.]

più di uno dei rami della zoologia.]

0231 TAXONOMIE ou CLASSIFICATION en général.

[Dans cette division doivent être placés les ouvrages traitant des principes de la classification zoologique; les ouvrages discutant la classification de plus d'une "branche"; les ouvrages traitant des relations des grands groupes d'animaux de la faune actuelle; la classification phylogénétique, c'est à dire les relations anciennes entre les grands groupes d'animaux. Les ouvrages ayant trait à la classification d'une branche isolée seront traités à propos de cette branche.]

TASSONOMIA E CLASSIFICAZIONE IN GENERALE.

[Qui saranno posti i lavori che trattano dei principi della classificazione zoologica; i lavori discutenti la classificazione di più di un ramo; i lavori riguardanti le relazioni tassonomiche dei grandi gruppi degli animali esistenti; la classificazione filogenetica, ossia le relazioni nel tempo dei grandi gruppi di animali. I lavori relativi alla classificazione di uno solo dei rami sono trattati in quel ramo.]

0400-6031. Zoologie spéciale.

0400-6031. Zoologia Speciale.

0400-0431 Protozoaires. (Voy. aussi R 1200.)

Voici les divisions principales:—  
Mycétozoaires; Rhizopodes (Radiolaires, Hélozoaires, Foraminifères, Amœbiens, Protéomyxes); Sporozoaires (Grégarinides, Coccidiides, Haemosporidies, Myxosporidies, Sarcosporidies); Mastigophores (Flagellés, Dinoflagellés); Infusoires (Acinétiens, Ciliés).

Protozoa. (Vedi anche R 1200.)

Le divisioni principali sono:—  
Mycetozoa; Rhizopoda (Radiolaria, Heliozoa, Foraminifera, Amœbaea, Proteomyxa); Sporozoa (Gregarinida, Coccidiidea, Haemosporidia, Myxosporidia, Sarcosporidia); Mastigophora (Flagellata, Dinoflagellata); Infusoria (Acinetaria, Ciliata).

0600-0631 Porifères (ou Spongiaires).

Voici les divisions principales:—  
Calcaires; Hexactinellides; Démospongiaires (Carnosa, Tetractinellides, Monaxonides, Kératosa, Myxospongiaires).

Porifera (vel Spongida).

Le divisioni principali sono:—  
Calcarea; Hexactinellida; Démospongiae (Carnosa, Tetractinellida, Monaxonida, Keratosa, Myxospongida).

0800-0831 Cœlentérés (ou Cnidaria).

Voici les divisions principales:—  
Graptolites; Hydroméduses; Scyphoméduses; Monticuliporides; Stromatoporides; Aleyonaires; Zoanthaires; Cténophores.

Cœlenterata (vel Cnidaria).

Le divisioni principali sono:—  
Graptolites; Hydromedusae; Scyphomedusae; Monticuliporidae; Stromatoporidiae; Aleyonaria; Zoantharia; Ctenophora.

1000-1031 Échinodermes.

Voici les divisions principales:—  
Cystoïdes; Crinoïdes; Blastoïdes; Asteroïdes; Ophiuroïdes; Echinoïdes; Holothurioides.

Echinodermata.

Le divisioni principali sono:—  
Cystoidea; Crinoidea; Blastoidea; Asteroidea; Ophiuroidea; Echinoidea; Holothurioides.

- 1200-1231 **Platyhelminthes. Mesozoa and Trichoplax.**  
 The principal divisions are :—  
 Platyhelminthes (Turbellaria, Trematoda, Cestoda, Nemertinea); Mesozoa (Dicyemidae, Orthonec-  
 tidae); *Trichoplax*.
- 1400-1431 **Nemathelminthes.**  
 The principal divisions are :—  
 Nematoda; Nematomorpha (or Gordiidae); Acanthocephala.
- 1600-1631 **Chaetognatha. Rotifera. Gastrotricha. Kinorhyncha (or Echinodera).**
- 1800-1831 **Archannelida. Polychaeta. Myzostomaria. Oligochaeta. Gephyrea. Phoronis. Hirudinea.**
- 2000-2031 **Brachiopoda. Bryozoa (or Polyzoa).**  
 The principal divisions are :—  
 Brachiopoda.  
 Bryozoa: Entoprocta; Ectoprocta (Gymnolaema: Cyclostomata, Trepostomata, Cryptostomata, Cheilostomata, Ctenostomata; Phylactolaema).
- 2200-2231 **Mollusca.**  
 The principal divisions are :—  
 Lamellibranchiata (or Pelecypoda) (Order should be given); Scaphopoda; Amphineura.  
 Gastropoda includes Prosobranchiata (Rhipidoglossa, Ptenoglossa, Taenioglossa, Rachiglossa, Toxoglossa); Heteropoda; Opisthobranchiata (Tectibranchiata, Nudi-branchiata); Pteropoda; Pulmonata (Bassomatophora, Stylomatophora). Families of Prosobranchiata and Pulmonata should be mentioned. See Cambridge Natural History.  
 Cephalopoda includes Nauti-  
 loidea, Ammonoidea, Dibranchiata.
- 2400-2431 **Arthropoda.**  
 2431 will not include a systematic arrangement of genera and species.
- Platyhelminthes. Mesozoa und Tri-  
 choplax.**  
 Hauptabteilungen sind :—  
 Platyhelminthes (Turbellaria, Trematoda, Cestoda, Nemertinea); Mesozoa (Dicyemidae, Orthonec-  
 tidae); *Trichoplax*.
- Nemathelminthes.**  
 Hauptabteilungen sind :—  
 Nematoda; Nematomorpha (oder Gordiidae); Acanthocephala.
- Chaetognatha. Rotifera. Gas-  
 trotricha. Kinorhyncha (oder  
 Echinodera).**
- Archannelida. Polychæta. Myzo-  
 stomaria. Oligochæta. Gephyrea.  
 Phoronis. Hirudinea.**
- Brachiopoda. Bryozoa (oder  
 Polyzoa).**  
 Hauptabteilungen sind :—  
 Brachiopoda.  
 Bryozoa: Endoprocta; Ecto-  
 procta (Gymnolaema: Cyclosto-  
 mata, Trepostomata, Cryptosto-  
 mata, Cheilostomata, Ctenosto-  
 mata; Phylactolaema).
- Mollusca.**  
 Hauptabteilungen sind :—  
 Lamellibranchiata (oder Pelecyp-  
 oda) (Ordnung angeben); Sca-  
 phopoda; Amphineura.  
 Gastropoda umfasst Prosobran-  
 chiata (Rhipidoglossa, Ptenoglossa,  
 Taenioglossa, Rachiglossa, Toxo-  
 glossa; Heteropoda; Opisthobran-  
 chiata (Tectibranchiata, Nudi-  
 branchiata); Pteropoda; Pulmo-  
 nata (Bassomatophora, Stylom-  
 matophora). Familien der Proso-  
 branchiata und Pulmonata angeben.  
 Siehe Cambridge Natural History.  
 Cephalopoda umfasst Nautiloidea,  
 Ammonoidea, Dibranchiata.
- Arthropoda.**  
 2431 wird eine systematische  
 Anordnung der Gattungen und Arten  
 nicht enthalten.



1200-1231 **Platyhelminthes. Mésozoaires**  
et le **Trichoplax.**

Voici les divisions principales :—  
Platyhelminthes (Turbellariés,  
Trématodes, Cestodes, Némertiens);  
Mésozoaires (Dicyeniidæ, Ortho-  
neetidæ); *Trichoplax.*

1400-1431 **Némathelminthes.**

Voici les divisions principales :—  
Nématodes; Nématomorphes (ou  
Gordiens); Acanthocephales.

1600-1631 **Chætognathes. Rotifères.**  
**Gastrotriches. Kinorhynques (ou**  
**Echinodères).**

1800-1831 **Archiannelides. Polychètes.**  
**Myzostomes. Oligochètes.**  
**Géphyriens. Phoronis. Hirudinées.**

2000-2031 **Brachiopodes. Bryozoaires (ou**  
**Polýzoaires).**

Voici les divisions principales :—  
Brachiopodes.  
Bryozoaires : Entoproctes; Ec-  
toproctes (Gymnolèmes; Cyclo-  
stomes, Trepostomes, Cryptostomes,  
Cheilostomes, Cténostomes; Phylac-  
tolèmes).

2200-2231 **Mollusques.**

Voici les divisions principales :—  
Lamellibranches (ou Pélécy-podes)  
(indiquer l'ordre); Scaphopodes;  
Amphineures.

Les Gastropodes comprennent les  
Prosobranches (Rhipidoglosses,  
Pténoglosses, Taenioglosses, Rachi-  
glosses, Toxoglosses); Hétéropodes;  
Opisthobranches (Tectibranches,  
Nudibranches); Ptéropodes; Pul-  
monés (Basomatophores, Stylom-  
matophores). Indiquer les familles  
des Prosobranches et des Pul-  
monés. *Voy. la Cambridge Natural  
History.*

Les Céphalopodes comprennent  
les Nautiles, Ammonites, Di-  
branches.

2400-2431 **Arthropodes.**

2431 ne comprendra pas un  
arrangement systématique des genres  
et des espèces.

**Platyhelminthes. Mesozoa et Tri-**  
**choplax.**

Le divisioni principali sono :—  
Platyhelminthes (Turbellaria,  
Trematoda, Cestoda, Nemertinea);  
Mesozoa (Dicyeniidæ, Orthonee-  
tidæ); *Trichoplax.*

**Nemathelminthes.**

Le divisioni principali sono :—  
Nematoda; Nematomorpha (vel  
Gordiidæ); Acanthocephala.

**Chætognatha. Rotifera. Gastro-**  
**tricha. Kinorhyncha (vel Echi-**  
**nodera).**

**Archiannelida. Polychæta. Myzo-**  
**stomaria. Oligochæta. Gephyrea.**  
**Phoronis. Hirudinea.**

**Brachiopoda. Bryozoa (vel Polyzoa).**

Le divisioni principali sono :—  
Brachiopoda.  
Bryozoa : Entoprocta; Ecto-  
procta (Gymnolaena; Cyclosto-  
mata, Trepostomata, Cryptosto-  
mata, Cheilostomata, Ctenosto-  
mata; Phylactolaema).

**Mollusca.**

Le divisioni principali sono :—  
Lamellibranchiata (vel Pelecyp-  
poda) (indicare l'ordine); Scapho-  
poda; Amphineura.

Gastropoda includono Prosbran-  
chiata (Rhipidoglossa, Ptenoglossa,  
Taenioglossa, Raeliglossa, Toxo-  
glossa); Heteropoda; Opisthobran-  
chiata (Tectibranchiata, Nudi-  
branchiata); Pteropoda; Pulmo-  
nata (Bassomatophora, Stylom-  
matophora). Indicare le famiglie  
dei Prosobranchiata e Pulmonata.  
*Vedi Cambridge Natural History.*

Cephalopoda includono Nauti-  
loidea, Ammonoidea, Dibranchiata.

**Arthropoda.**

2431 non deve includere la dis-  
posizione sistematica dei generi e  
delle specie.

## 2600-2631 Crustacea.

Entomostraca (= Cirripedia, Ostracoda, Copepoda, Phyllopoda).

Leptostraca.

Arthrostraca (or Edriophthalma) (= Amphipoda, Isopoda, Anisopoda).

[Malacostraca (= Thoracostraca + Arthrostraca).]

Thoracostraca (or Podophthalma) includes Decapoda, Schizopoda, Stomatopoda, Cumacea.

## Crustacea.

Entomostraca (= Cirripedia, Ostracoda, Copepoda, Phyllopoda).

Leptostraca.

Arthrostraca (oder Edriophthalma) (= Amphipoda, Isopoda, Anisopoda).

[Malacostraca (= Thoracostraca + Arthrostraca).]

Thoracostraca (oder Podophthalma) umfasst Decapoda, Schizopoda, Stomatopoda, Cumacea.

## 2800-2831 Trilobita. Xiphosura. Eurypterida. Pantopoda. Tardigrada. Linguatulida.

## Trilobita. Xiphosura. Eurypterida. Pantopoda. Tardigrada. Linguatulida.

## 3000-3031 Arachnida.

Arachnida consists of Scorpionida, Pedipalpi, Palpigradi, Araneida, Solifugae, Chernetida (or Pseudoscorpiones), Phalangida (or Opiliones), Acarida (or Acari).

## Arachnida.

Arachnida umfasst Scorpionida, Pedipalpi, Palpigradi, Araneida, Solifugae, Chernetida (oder Pseudoscorpiones), Phalangida (oder Opiliones), Acarida (oder Acari).

## 3200-3231 Prototracheata (or Onychophora).

## Prototracheata (oder Onychophora).

Prototracheata includes only *Peripatus* and its divisions.

Prototracheata umfasst nur *Peripatus* und dessen Abteilungen.

## 3400-3431 Myriopoda.

Myriopoda consists of Chilopoda, Diplopoda (= Pselaphognatha and Chilognatha), Symphyla (or Scolopendrella), Pauropoda.

## Myriopoda.

Myriopoda umfasst Chilopoda, Diplopoda (= Pselaphognatha und Chilognatha), Symphyla (oder Scolopendrella), Pauropoda.

## 3500-3531 Insecta.

3531 will not include a systematic arrangement of genera and species.

## Insecta.

3531 wird eine systematische Anordnung der Gattungen und Arten nicht enthalten.

## 3600-3631 Aptera (or Apterygogenea). Anoplura. Mallophaga. Thysanoptera (or Physopoda). Siphonaptera (or Aphaniptera).

Aptera, proper, consists of Thysanura and Collembola.

## Aptera (oder Apterygogenea). Anoplura. Mallophaga. Thysanoptera (oder Physopoda). Siphonaptera (oder Aphaniptera).

Aptera, im eigentlichen Sinne, umfasst Thysanura und Collembola.

## 3800-3831 Orthoptera. Neuroptera. Trichoptera.

The principal divisions are:— Orthoptera (Forficulidae or Dermaptera, Hemimeridae, Blattidae, Mantidae, Phasmodidae, Gryllidae, Locustidae, Acridiidae).

## Orthoptera. Neuroptera. Trichoptera.

Hauptabteilungen sind:— Orthoptera (Forficulidae oder Dermaptera, Hemimeridae, Blattidae, Mantidae, Phasmodidae, Gryllidae, Locustidae, Acridiidae).

## 2600-2631 Crustacés.

Entomostracés (= Cirripèdes, Ostracodes, Copépodes, Phyllopodés).

Leptostracés.

Arthrostracés (ou Edriophthalmes) (= Amphipodes, Isopodes, Anisopodes).

[Malacostracés (= Thoracostracés + Arthrostracés).]

Les Thoracostracés (ou Podophthalmes), comprennent les Décapodes, Schizopodes, Stomatopodes, Cumacés).

## 2800-2831 Trilobites. Xiphosures. Euryptérides. Pantopodes. Tardigrades. Linguatulides.

## 3000-3031 Arachnides.

Les Arachnides comprennent les Scorpionides, Pédipalpes, Palpigrades, Aranécides, Solifuges, Chernetes (ou Pseudoscorpions), Phalangides (ou Opilions), Acariens.

## 3200-3231 Prototrachéates (ou Onychophores).

Les Prototrachéates comprennent seulement le genre *Peripatus* et ses divisions.

## 3400-3431 Myriapodes.

Les Myriapodes comprennent les Chilopodes, Diplopodes (Psélaphognathes et Chilognathes), Symphyliens (ou Scolopendrelles), Pauropodes.

## 3500-3531 Insectes.

3531 ne comprendra pas un arrangement systématique des genres et des espèces.

## 3600-3631 Aptères (ou Aptérygogéniens). Anoploures. Mallophages. Thysanoptères (ou Physopodes). Siphonaptères (ou Aphaniptères).

Les Aptères proprement dits comprennent les Thysanoures et les Collembolés.

## 3800-3831 Orthoptères. Névroptères. Trichoptères.

Voici les divisions principales :— Orthoptères (Forficulides ou Dermaptères, Héminérides, Blattides, Mantides, Phasmides, Gryllides, Locustides, Acridides).

## Crustacea.

Entomostraca (= Cirripedia, Ostracorda, Copepoda, Phyllopoda).

Leptostraca.

Arthrostraca (vel Edriophthalma) (= Amphipoda, Isopoda, Anisopoda).

[Malacostraca (= Thoracostraca + Arthrostraca).]

Thoracostraca (vel Podophthalma) includono Decapoda, Schizopoda, Stomatopoda, Cumacca.

## Trilobita. Xiphosura. Eurypterida. Pantopoda. Tardigrada. Linguatulida.

## Arachnida.

Arachnida includono Scorpionida, Pedipalpi, Palpigradi, Araneida, Solifuga, Chernetida (vel Pseudoscorpiones), Phalangida (vel Opiliones), Acarida (vel Acari).

## Prototracheata (vel Onychophora).

Nei Prototracheata è incluso il solo *Peripatus* e le sue divisioni.

## Myriopoda.

Chilopoda, Diplopoda (= Pselaphognatha e Chilognatha), Symphyla (vel Scolopendrella), Pauropoda.

## Insecta.

3531 non deve includere la disposizione sistematica dei generi e delle specie.

## Aptera (vel Apterygogenea). Anoplura. Mallophaga. Thysanoptera (vel Physopoda). Siphonaptera (vel Aphaniptera).

Gli Aptera propriamente detti consistono nei Thysanura e Collembola.

## Orthoptera. Neuroptera. Trichoptera.

Le divisioni principali sono :— Orthoptera (Forficulidæ vel Dermaptera, Hemimeridæ, Blattidæ, Mantidæ, Phasmidæ, Gryllidæ, Locustidæ, Acrididæ).

Neuroptera (Planipennia, Embiidae, Termitidae, Psocidae, Perlidae, Ephemeraeidae, Odonata).

Each slip relating to Neuroptera should also state to which of these divisions it refers.

Most of the Palaeozoic Insects are to be dealt with in this branch.

Neuroptera (Planipennia, Embiidae, Termitidae, Psocidae, Perlidae, Ephemeraeidae, Odonata).

Jeder Zettel für Neuroptera soll auch angeben, auf welche dieser Abteilungen er sich bezieht.

Die meisten der paläozoischen Insekten werden bei diesem Zweige zu behandeln sein.

4000-4031 Hemiptera (or Rhynchota) excl. Anoplura, which are placed in 3600.

The principal divisions are :—

Hemiptera Heteroptera and Hemiptera Homoptera. [Phytophthires (Aphidae, Psyllidae, Aleurodidae, Coccidae) are included in Hemiptera Homoptera.]

Families to be mentioned in all cases.

See Cambridge Natural History.

Hemiptera (oder Rhynchota), excl. Anoplura, welche unter 3600 eingeordnet sind.

Hauptabteilungen sind :—

Hemiptera Heteroptera und Hemiptera Homoptera. [Phytophthires (Aphidae, Psyllidae, Aleurodidae, Coccidae) sind in Hemiptera Homoptera enthalten.]

Familien immer angeben. *Siehe* Cambridge Natural History.

4200-4231 Diptera (excl. Siphonaptera, which are placed in 3600-3631).

The slips should be marked with the name of the family of Diptera. *See* Cambridge Natural History.

Diptera (excl. Siphonaptera, welche unter 3600-3631 eingeordnet sind).

Bei den Diptera sind auf den Zetteln die Namen der Familien zu vermerken. *Siehe* Cambridge Natural History.

4400-4431 Lepidoptera.

The principal divisions are :—  
Rhopalocera; Heterocera.

The family to be mentioned in all cases. *See* Cambridge Natural History.

Lepidoptera.

Hauptabteilungen sind :—  
Rhopalocera; Heterocera.

Familien immer angeben. *Siehe* Cambridge Natural History.

4600-4631 Hymenoptera.

The principal divisions are :—  
Aculeata = Anthophila (Apidae Andrenidae), Vespidae (Diploptera), Sphegidae s.l. (Fossoria). Formicidae (Heterogyna). Tubulifera = Chrysididae. Parasitica = Trigonidae, Proctotrupidae, Pelecinidae, Chalcididae, Ichneumonidae, Braconidae, Megalyridae, Evaniidae, Stephanidae, Cynipidae. Sessiliventre (or Chalastogastra) = Cephidae, Siricidae, Oryssidae, Tenthredinidae.

Hymenoptera.

Hauptabteilungen sind :—

Aculeata = Anthophila (Apidae Andrenidae), Vespidae (Diploptera), Sphegidae s.l. (Fossoria). Formicidae (Heterogyna). Tubulifera = Chrysididae. Parasitica = Trigonidae, Proctotrupidae, Pelecinidae, Chalcididae, Ichneumonidae Braconidae, Megalyridae, Evaniidae, Stephanidae, Cynipidae. Sessiliventre (oder Chalastogastra) = Cephidae, Siricidae, Oryssidae, Tenthredinidae.

Névroptères (Planipennes, Embiidés, Termitides, Psocides, Porlides, Ephémérides, Odonates).

Chaque fiche relative aux Névroptères doit aussi indiquer à laquelle de ces divisions elle se rapporte.

La plupart des Insectes paléozoïques devront être traités dans cette branche.

Neuroptera (Planipennia, Embiidac, Termitidæ, Psocidæ, Perlidæ, Ephemeridæ, Odonata.)

Ciascuna scheda relativa ai Neuroptera deve stabilire a quale di queste divisioni del gruppo si riferisce.

La maggior parte degli insetti paleozoici riferiscansi a questo ramo.

4000-4031 Hémiptères (ou Rhynchotes) à l'exclusion des Anoploures, qui sont placés sous le numéro 3600.

Voici les divisions principales :—

Hémiptères Hétero-ptères et Hémiptères Homoptères. [Les Phytophthires (Aphides, Psyllides, Aleurodides, Coccides) sont compris dans les Hémiptères Homoptères.]

Indiquer les familles en tout cas. Voy. Cambridge Natural History.

Hemiptera (vel Rhynchota), esclusi Anoplura, che sono indicati col numero 3600.

Le divisioni principali sono :—

Hemiptera Heteroptera e Hemiptera Homoptera. [Phytophthires (Aphidæ, Psyllidæ, Aleurodidæ, Coccidæ) sono inclusi in Hemiptera Homoptera.]

Indicare le famiglie in ogni caso. Vedi Cambridge Natural History.

4200-4231 Diptères (sauf les Siphonaptères, qui sont placés sous les numéros 3600-3631).

Les fiches doivent porter le nom de la famille des Diptères. Voy. Cambridge Natural History.

Diptera (exclusi Siphonaptera, che sono indicati dai numeri 3600-3631).

Le schede dovranno portare il nome della famiglia dei Diptera cui si riferiscono. Vedi Cambridge Natural History.

4400-4431 Lépidoptères.

Voici les divisions principales :— Rhopalocères ; Hétérocères.

Indiquer la famille en tout cas. Voy. Cambridge Natural History.

Lepidoptera.

Le divisioni principali sono :— Rhopalocera ; Heterocera.

Indicare la famiglia in ogni caso. Vedi Cambridge Natural History.

4600-4631 Hyménoptères.

Voici les divisions principales :—

Aculeata (ou Porte-aiguillons) = Antophilæ (Apides, Andrenides), Vespides (Diploptères) Sphégides s.l. (Fouisseurs) Fornicides (Hétérogynes). Tubulifères = Chrysidides. Parasites = Trigonalides, Proctotrupides, Pélécinides, Chalcidides, Ichneumonides, Braconides, Mégalyrides, Evaniides, Stéphanides, Cynipides. Sessiliventre (ou Chalastogastres) = Céphides, Siricides, Oryssides, Tenthredinides.

Hymenoptera.

Le divisioni principali sono :—

Aculeata = Anthophila (Apidæ, Andrenidæ, Vespidæ (Diploptera), Sphegidæ s.l. (Fossoria). Formicidæ (Heterogyna. Tubulifera = Chrysididæ. Parasitica = Trigonalidæ, Proctotrupidæ, Pelenonidæ, Chalcididæ, Ichneumonidæ, Braconidæ, Megalyridæ, Evaniidæ, Stephanidæ, Cynipidæ. Sessiliventre (vel Chalastogastra) = Cephidæ, Siricidæ, Oryssidæ, Tenthredinidæ.

## 4800-4831 Coleoptera (incl. Strepsiptera).

The name of the family referred to should be given on each slip.

The families are numerous. They are included in the Munich Catalogue of the Coleoptera (*Catalogus coleopterorum hucusque descriptorum synonymicus et systematicus*) and (the subsequent additions) in "Cambridge Natural History," vol. vi.

## 5000-5031 Prochordata, viz., Leptocardii, Enteropneusta, Tunicata.

## 5200-5231 Vertebrata.

No systematic enumeration is to be placed under 5231.

## 5400-5431 Pisces [excl. Leptocardii (or Amphioxus), for which see 5000-5031].

The principal divisions are:—  
Cyclostomi, Ostracodermi, Plagiostomi, Holocephali, Arthrodira, Dipnoi, Teleostomi (or Teleostei and Ganoidei, with the exception of Arthrodira and Ostracodermi).

The family should be mentioned. See Cambridge Natural History.

## 5600-5631 Amphibia and Reptilia.

The principal divisions are:—  
Batrachia or Amphibia (Stegcephala or Labyrinthodontia, Apoda, Caudata or Urodela, Ecaudata or Anura).

Reptilia (Anomodontia, Rhynchocephalia, Plesiosauria, Ichthyosauria, Cotylosauria, Pareiasauria, Diaptosauria, Protosauria, Rhynchosauria, Procolophonina, Proganosauria, Choristodera, Chelonia, Crocodilia, Dinosauria, Ornithosauria or Pterosauria, Ophidia, Pythonomorpha, Rhiptoglossa, Lacertilia).

## Coleoptera (incl. Strepsiptera).

Auf jedem Zettel ist der Name der betr. Familie anzugeben.

Die Zahl der Familien ist gross. Sie sind aufgeführt in dem Münchener Coleopteren-Katalog (*Catalogus coleopterorum hucusque descriptorum synonymicus et systematicus*) und (soweit es sich um spätere Zusätze handelt) in „Cambridge Natural History," vol. vi.

## Prochordata, d.h., Leptocardii, Enteropneusta, Tunicata.

## Vertebrata.

5231 wird keine systematische Aufzählung enthalten.

## Pisces [mit Anschluss der Leptocardii (oder Amphioxus), siehe 5003-5031].

Hauptabteilungen sind:—  
Cyclostomi, Ostracodermi, Plagiostomi, Holocephali, Arthrodira, Dipnoi, Teleostomi (oder Teleostei und Ganoidei, mit Ausnahme von Arthrodira und Ostracodermi).

Familie angeben. *Siehe* Cambridge Natural History.

## Amphibia und Reptilia.

Hauptabteilungen sind:—  
Batrachia oder Amphibia (Stegcephala oder Labyrinthodontia, Apoda, Caudata oder Urodela, Ecaudata oder Anura).

Reptilia (Anomodontia, Rhynchocephalia, Plesiosauria, Ichthyosauria, Cotylosauria, Pareiasauria, Diaptosauria, Protosauria, Rhynchosauria, Procolophonina, Proganosauria, Choristodera, Chelonia, Crocodilia, Dinosauria, Ornithosauria oder Pterosauria, Ophidia, Pythonomorpha, Rhiptoglossa, Lacertilia).

## 4800-4831 Coléoptères (y compris les Strepsiptères).

Le nom de la famille dont il est question doit être donné sur chaque fiche.

Les familles sont nombreuses. Elles sont indiquées dans le Catalogue des Coléoptères de Munich (Catalogus coleopterorum hucusque descriptorum synonymicus et systematicus) et (pour les additions subséquentes) dans "Cambridge Natural History," vol. vi.

## 5000-5031 Prochordés, c'est à dire, Leptocardiens, Entéropneustes, Tuniciers.

## 5200-5231 Vertébrés.

Aucune énumération systématique n'est placée sous le numéro 5231.

## 5400-5431 Poissons [à l'exception des Leptocardiens (ou Amphioxus), qui se trouvent sous les numéros 5000-5031].

Voici les divisions principales :—

Cyclostomes, Ostracodermes, Plagiostomes, Holocephales, Arthrodires, Dipnoi, Téléostomes (ou Téléostéens et Ganoïdes, à l'exception des Arthrodires et des Ostracodermes).

La famille doit être mentionnée. Voy. Cambridge Natural History.

## 5600-5631 Batraciens et Reptiles.

Voici les divisions principales :—  
Batraciens ou Amphibiés (Stégocéphales ou Labyrinthodontes, Apodes, Caudés ou Urodèles, Ecaudés ou Anoures).

Reptiles (Anomodontes, Rhynchocephales, Plésiosauroiens, Ichthyosauroiens, Cotylosauroiens, Paréiasauroiens, Diaptosauroiens, Protosauriens, Rhynchosauriens, Procolophoniens, Proganosauroiens, Choristodères, Chéloniens, Crocodiliens, Dinosauriens, Ornithosauroiens ou Ptérosauroiens, Ophiidiens, Pythonomorphes, Rhiptoglosses, Lacertiliens).

(N-9720)

## Coleoptera (incl. Strepsiptera).

Il nome della famiglia dev'essere indicato su ciascuna scheda.

Le famiglie sono numerose. Si trovano indicate nel Catalogo dei Coleoptera di Monaco (Catalogus coleopterorum hucusque descriptorum synonymicus et systematicus) e (le susseguenti aggiunte) in "Cambridge Natural History," vol. vi.

## Prochordata, cioè Leptocardii, Enteropneusta, Tunicata.

## Vertebrata.

Non deve porsi alcuna enumerazione sistematica sotto 5231.

## Pisces [escl. Leptocardii (vel Amphioxus), per i quali vedi 5000-5031].

Le divisioni principali sono :—

Cyclostomi, Ostracodermi, Plagiostomi, Holocephali, Arthrodira, Dipnoi, Teleostomi (o Teleostei o Ganoidei, con esclusione di Arthrodira e Ostracodermi).

Indicare la famiglia. Vedi Cambridge Natural History.

## Batrachia et Reptilia.

Le divisioni principali sono :—

Batrachia vel Amphibia (Stegocephala vel Labyrinthodontia, Apoda, Caudata vel Urodela, Ecaudata vel Anura).

Reptilia (Anomodontia, Rhynchocephalia, Plesiosauria, Ichthyosauria, Cotylosauria, Parciasauria, Diaptosauria, Protosauria, Rhynchosauria, Procolophonia, Proganosauria, Choristodera, Chelonia, Crocodilia, Dinosauria, Ornithosauria vel Pterosauria, Ophidia, Pythonomorpha, Rhiptoglossa, Lacertilia).

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## 5800-5831 Aves.

The principal divisions are :—

Accipitres, Aepyornithes, Alcae, Alektorides (including *Cariama*), Anisodactylæ (including Podargidae and *Steatornis*), Anseres (including Phœnicopteri and Palamediidæ), Apteryges, Casuarii, Coecyges, Columbae, Coraciæ, Crypturi, Cypseli, Dinornithes, Fulicariæ, Gallinæ, Gaviæ, Herodiones, Heterodactylæ, Impennes, Limicolæ, Odontolcae, Odontormæ, Opisthocomi, Passeres (mention families), Pici, Psittaci, Pterocletes, Pygopodes, Rheæ, Saururæ, Steganopodes, Stereornithes, Striges, Struthiones, Tubinares, Zygodactylæ.

## Aves.

Hauptabteilungen sind :—

Accipitres, Aepyornithes, Alcae, Alektorides (einschl. *Cariama*), Anisodactylæ (einschl. Podargidae und *Steatornis*), Anseres (einschl. Phœnicopteri und Palamediidæ), Apteryges, Casuarii, Coecyges, Columbae, Coraciæ, Crypturi, Cypseli, Dinornithes, Fulicariæ, Gallinæ, Gaviæ, Herodiones, Heterodactylæ, Impennes, Limicolæ, Odontolcae, Odontormæ, Opisthocomi, Passeres (Familien angeben), Pici, Psittaci, Pterocletes, Pygopodes, Rheæ, Saururæ, Steganopodes, Stereornithes, Striges, Struthiones, Tubinares, Zygodactylæ.

## 6000-6031 Mammalia.

The principal divisions are :—

Carnivora, Cetacea, Chiroptera, Edentata, Insectivora, Marsupialia, Monotremata, Multituberculata, Primates, Rodentia, Sirenia, Tillo-dontia, Ungulata (Artiodactyla, Perissodactyla, Subungulata).

## Mammalia.

Hauptabteilungen sind :—

Carnivora, Cetacea, Chiroptera, Edentata, Insectivora, Marsupialia, Monotremata, Multituberculata, Primates, Rodentia, Sirenia, Tillo-dontia, Ungulata (Artiodactyla, Perissodactyla, Subungulata).



## 5803-5831 Oiseaux.

Voici les divisions principales :—  
 Accipitres, *Æpyornithéens*,  
 Alciens, Alcotoriens (y compris les  
*Cariamæ*), Anisodactyles (y compris  
 les Podargides et les *Steatornis*),  
 Ansériens (y compris les Phœnico-  
 ptères et les Palamédiidés), Aptery-  
 giens, Casuariens, Coccygiens,  
 Colombins, Coraciens, Crypturiens,  
 Cypséliens, Dinornithiens, Fuli-  
 cariens, Gallinacés, Gaviens,  
 Hérodiens, Hétérodactyles, Im-  
 pennes, Limicoliens, Odontolciens,  
 Odontormiens, Opisthocomes, Pas-  
 sereaux (indiquer les familles),  
 Pics, Perroquets, Ptérocliens,  
 Pygopodes, Rhéens, Saururiens,  
 Stéganopodes, Stéréonithiens, Stri-  
 giens, Struthioniens, Tubinariens,  
 Zygodactyles.

## 6000-6031 Mammifères.

Voici les divisions principales :—  
 Carnivores, Cétacés, Chiroptères,  
 Édentés, Insectivores, Marsupiaux,  
 Monotrèmes ; Multituberculés, Pri-  
 mates, Rongeurs, Siréniens, Tillo-  
 dontes, Ongulés [Ungulata] (Artio-  
 dactyles, Périssodactyles, Subon-  
 gulés).

## Aves.

Le divisioni principali sono :—  
 Accipitres, *Æpyornithes*, *Alcæ*,  
*Alectorides* (incl. *Cariamæ*), *Aniso-*  
*dactylæ* (incl. *Podargidæ* et  
*Steatornis*), *Anseres* (incl. *Phœni-*  
*copteri* et *Palamediidæ*), *Apteryges*,  
*Casuarii*, *Coccyges*, *Columbæ*,  
*Coraciæ*, *Crypturi*, *Cypseli*, *Dino-*  
*rniethes*, *Fulicariæ*, *Gallinæ*, *Gaviæ*,  
*Herodiones*, *Heterodactylæ*, *Im-*  
*pennes*, *Limicolæ*, *Odontolcæ*,  
*Odontormæ*, *Opisthocomi*, *Passeres*  
 (indicare le famiglie), *Pici*, *Psit-*  
*taci*, *Pterocletes*, *Pygopodes*,  
*Rhææ*, *Saururæ*, *Steganopodes*,  
*Stereornithes*, *Striges*, *Struthiones*,  
*Tubinares*, *Zygodactylæ*.

## Mammalia.

Le divisioni principali sono :—  
 Carnivora, Cetacea, Chiroptera,  
 Edentata, Insectivora, Marsupialia,  
 Monotremata, Multituberculata, Pri-  
 mates, Rodentia, Sirenia, Tillo-  
 dontia, Ungulata (Artiodactyla,  
 Perissodactyla, Subungulata).



## INDEX

TO

## ZOOLOGY (N).

Acanthocephala .. .. .	1431	Apteryges .. .. .	5831
Acari .. .. .	3031	Apterygogenca .. .. .	3600
Acarida .. .. .	3031	Aquaria .. .. .	0060
Accipitres .. .. .	5831	Arachnida .. .. .	3000
Acclimatisation .. .. .	0219	Araneida .. .. .	3031
Acinetaria .. .. .	0131	Archiannelida .. .. .	1800
Acridiida .. .. .	3831	Arthrodira .. .. .	5431
Aculeata .. .. .	4631	Arthropoda .. .. .	2400
Adaptation .. .. .	0211	Arthrostraca .. .. .	2631
Addresses .. .. .	0040	Artiodactyla .. .. .	6031
Æpyornithes .. .. .	5831	Assimilation .. .. .	0211
Ætiology .. .. .	0223	Asteroidea .. .. .	1031
Alcæ .. .. .	5813	Aves .. .. .	5800
Aleyonaria .. .. .	0831	Bassomatophora .. .. .	2231
Alectorides .. .. .	5831	Batrachia .. .. .	5600
Aleurodidae .. .. .	4031	Bibliographies .. .. .	0032
Alimentary System .. .. .	0207	Biography .. .. .	0010
Amoebæ .. .. .	0431	Bionomic Variations .. .. .	0223
Ammonidea .. .. .	2231	Blastoidea .. .. .	1031
Amphibia .. .. .	5600	Blattidæ .. .. .	3831
Amphineura .. .. .	2231	Blood .. .. .	0207
Amphioxus .. .. .	5000	Brachiopoda .. .. .	2000
Amphipoda .. .. .	2631	Braconidæ .. .. .	4631
Anatomy .. .. .	0207	Breeding .. .. .	0219
Andrenidæ .. .. .	4631	Bryozoa .. .. .	2000
Anisodactylæ .. .. .	5831	Budding .. .. .	0215
Anisopoda .. .. .	2631	Calcarea .. .. .	0631
Anomodon .. .. .	5631	Cariama .. .. .	5831
Anoplura .. .. .	3600	Carnivora .. .. .	6031
Anseres .. .. .	5831	Carnosa .. .. .	0631
Antrophilæ .. .. .	4631	Caste, Production of .. .. .	0211
Anura .. .. .	5631	Casuarii .. .. .	5831
Aphaniptera .. .. .	3600	Caudata .. .. .	5631
Aphidæ .. .. .	4031	Cavernicolous Animals .. .. .	0219
Apidæ .. .. .	4631	Cephalopoda .. .. .	2231
Apoda .. .. .	5631	Cephidæ .. .. .	4631
Appara .. .. .	0090	Cestoda .. .. .	1231
Aptera .. .. .	3600	Cetacea .. .. .	6031
		Chaetognatha .. .. .	1600

Chalastogastra .. .. .	4631	Dinosauria .. .. .	5631
Chalcididae .. .. .	4631	Diplopoda .. .. .	3431
Cheilostomata .. .. .	2031	Diploptera .. .. .	4631
Chelonia .. .. .	5631	Dipnoi .. .. .	5431
Chernetida .. .. .	3031	Diptera .. .. .	4200
Chilognatha .. .. .	3431	Dissogony .. .. .	0215
Chilopoda .. .. .	3431	Distribution, Geographical .. .. .	0227
Chiroptera .. .. .	6031	Ecaudata .. .. .	5631
Choristodera .. .. .	5631	Echinodera .. .. .	1600
Chrysididae .. .. .	4631	Echinodermata .. .. .	1000
Chyle .. .. .	0207	Echinoidea .. .. .	1031
Ciliata .. .. .	0431	Ectoprocta .. .. .	2031
Circulatory Organs .. .. .	0207	Edentata .. .. .	6031
Cirripedia .. .. .	2631	Edriophthalma .. .. .	2631
Cnidaria .. .. .	0803	Embiidae .. .. .	3831
Coccidae .. .. .	4031	Embryology .. .. .	0215
Coccidiidea .. .. .	0431	Enteropneusta .. .. .	5000
Coccyges .. .. .	5831	Entomostraca .. .. .	2631
Ocelenterata .. .. .	0800	Entoprocta .. .. .	2031
Cœlomic Fluid .. .. .	0207	Environmental Effects .. .. .	0211
Coleoptera .. .. .	4800	Ephemeridae .. .. .	3831
Collected Works .. .. .	0030	Ethology .. .. .	0219
Collections .. .. .	0060	Euryptera .. .. .	2800
Collembola .. .. .	3631	Evaniidae .. .. .	4631
Colour .. .. .	0207, 0219	Evolution .. .. .	0223
— Variations of .. .. .	0223	Excretory Organs .. .. .	0207
Columbæ .. .. .	5831	Explorations .. .. .	0020
Congresses .. .. .	0020	Fertility, Variations of .. .. .	0223
Copepoda .. .. .	2631	Fertilization, Phenomena .. .. .	0215
Coraciæ .. .. .	5831	Flagellata .. .. .	0431
Cotylosauria .. .. .	5631	Foraminifera .. .. .	0431
Crinoidea .. .. .	1031	Forficulidæ .. .. .	3831
Crocodylia .. .. .	5631	Formicidæ .. .. .	4631
Crosses .. .. .	0223	Form, Variations of .. .. .	0223
Crustacea .. .. .	2600	Fossoria .. .. .	4631
Cryptostomata .. .. .	2031	Fulicariæ .. .. .	5831
Crypturi .. .. .	5831	Function, Change of .. .. .	0211
Ctenophora .. .. .	0831	Gallinæ .. .. .	5831
Ctenostomata .. .. .	2031	Ganoidei .. .. .	5431
Cumacea .. .. .	2631	Gardens .. .. .	0060
Cyclostomata .. .. .	2031	Gastropoda .. .. .	2231
Cyclostomi .. .. .	5431	Gastrotricha .. .. .	1600
Cynipidæ .. .. .	4631	Gaviæ .. .. .	5831
Gypseli .. .. .	5831	Generations, Alternation of .. .. .	0215
Cystoidea .. .. .	1031	Geographical Zoology .. .. .	0227
Death .. .. .	0211	Gephyrea .. .. .	1800
Decapoda .. .. .	2631	Glands, Function of .. .. .	0211
Deep-sea Animals .. .. .	0219	— Special .. .. .	0207
Defensive Processes .. .. .	0219	Gordiidae .. .. .	1431
Demospongiæ .. .. .	0631	Grafts .. .. .	0223
Dentition .. .. .	0207	Graptolites .. .. .	0831
Dermaptera .. .. .	3831	Gregarinida .. .. .	0431
Development .. .. .	0215	Gregariousness .. .. .	0219
— Variations of .. .. .	0223	Gryllidæ .. .. .	3831
Diaptosauria .. .. .	5631	Gymnolaema .. .. .	2031
Dibranchiata .. .. .	2231	Habitat .. .. .	0219
Dictionaries .. .. .	0030	Habits .. .. .	0219
Dicymidæ .. .. .	1231	— Variations of .. .. .	0223
Dimoflagellata .. .. .	0431	Haemosporidia .. .. .	0431
Dinornithes .. .. .	5831	Harmfulness .. .. .	0060

Heliozoa .. .. .	0431	Metamorphosis .. .. .	0215
Hemimeridæ .. .. .	3831	Methods .. .. .	0090
Hemiptera .. .. .	4000	Migration .. .. .	0219
Heredity .. .. .	0223	Mimicry .. .. .	0219
Hermaphroditism .. .. .	0215	Mollusca .. .. .	2200
Herodiones .. .. .	5831	Monaxonida .. .. .	0631
Heterocera .. .. .	4431	Monotremata .. .. .	6031
Heterodactylæ .. .. .	5831	Monticuliporidae .. .. .	0831
Heterogyna .. .. .	4631	Morphology .. .. .	0207
Heteropoda .. .. .	2231	Multituberculata .. .. .	6031
Hexactinellida .. .. .	0631	Museums .. .. .	0060
Hibernation .. .. .	0219	Mycetozoa .. .. .	0431
Hirudinea .. .. .	1800	Myology .. .. .	0207
Histogeny .. .. .	0215	Myriopoda .. .. .	3400
Histology .. .. .	0207	Myxospongia .. .. .	0631
History .. .. .	0010	Myxosporidia .. .. .	0431
Holocephali .. .. .	5431	Myzostomaria .. .. .	1800
Holothuriodea .. .. .	1031	Nautiloidea .. .. .	2231
Homoeotic Variations .. .. .	0223	Nemathelminthes .. .. .	1400
Hybrids .. .. .	0223	Nematoda .. .. .	1431
Hydromedusæ .. .. .	0831	Nematomorpha .. .. .	1431
Hymenoptera .. .. .	4600	Nemertinea .. .. .	1231
Hyperzoology .. .. .	0000	Nervous System .. .. .	0207
Iclineumonidae .. .. .	4631	Neuroptera .. .. .	3800
Ichthyosauria .. .. .	5631	Nomenclature, Principles of .. .. .	0070
Impennes .. .. .	5831	Nucleobranchiata .. .. .	2231
In-breeding .. .. .	0223	Nudibranchiata .. .. .	2231
Infusoria .. .. .	0431	Odonata .. .. .	3831
Insecta .. .. .	3500	Odontolcæ .. .. .	5831
Insectivora .. .. .	6031	Odontormæ .. .. .	5831
Instinct .. .. .	0219	Oligochæta .. .. .	1800
Institutions .. .. .	0020, 0060	Ontogeny, Postembryonic .. .. .	0215
Instruments .. .. .	0090	Onychophora .. .. .	3200
Isopoda .. .. .	2631	Oogenesis .. .. .	0215
Keratosa .. .. .	0631	Ophidia .. .. .	5631
Kinorhyncha .. .. .	1600	Ophiuroidea .. .. .	1031
Labyrinthodontia .. .. .	5631	Opiliones .. .. .	3031
Lacertilia .. .. .	5631	Opisthobranchiata .. .. .	2231
Lamellibranchiata .. .. .	2231	Opisthocomi .. .. .	5831
Larval Forms .. .. .	0215	Organogeny .. .. .	0215
Lectures .. .. .	0040	Ornament .. .. .	0219
Lepidoptera .. .. .	4400	Ornithosauria .. .. .	5631
Leptocardii .. .. .	5000	Orthonectidæ .. .. .	1231
Leptostraca .. .. .	2631	Orthoptera .. .. .	3800
Life, Duration of .. .. .	0211	Oryssidæ .. .. .	4631
Limicolæ .. .. .	5831	Osteology .. .. .	0207
Linguatulida .. .. .	2800	Ostracoda .. .. .	2631
Locustidæ .. .. .	3831	Ostracodermi .. .. .	5431
Luminosity .. .. .	0219	Oviposition .. .. .	0219
Lymph .. .. .	0207	Ovum .. .. .	0215
Malacostraca .. .. .	2631	Pædogenesis .. .. .	0215
Mallophaga .. .. .	3600	Palamediidæ .. .. .	5831
Mammalia .. .. .	6000	Palpigradi .. .. .	3031
Mantidæ .. .. .	3831	Pantopoda .. .. .	2800
Marsupialia .. .. .	6031	Parasitica .. .. .	4631
Mastigophora .. .. .	0431	Parasitism .. .. .	0219
Maturity, Variations of .. .. .	0223	Pareiasauria .. .. .	5631
Megaluridæ .. .. .	4631	Parental Relations .. .. .	0219
Meristic Variations .. .. .	0223	Parthenogenesis .. .. .	0215
Mesozoa .. .. .	1200	Passeres .. .. .	5831

Naupoda .. .. .	3431	Radiolaria .. .. .	0431
Pedagogy .. .. .	0050	Regeneration .. .. .	0215
Pedipalpi .. .. .	3031	Reproduction .. .. .	0215
Pelagic Animals .. .. .	0219	Reproductive Organs .. .. .	0207
Pelecynidæ .. .. .	4631	Reptilia .. .. .	5600
Polecypoda .. .. .	2213	Resemblances .. .. .	0219
Periodicals .. .. .	0020	Respiration .. .. .	0211
Peripatus .. .. .	3231	Respiratory Organs .. .. .	0207
Perissodactyla .. .. .	6031	Rheæ .. .. .	5831
Perlidæ .. .. .	3831	Rhipidoglossa .. .. .	2231
Phalangida .. .. .	3031	Rhiptoglossa .. .. .	5631
Phasmidæ .. .. .	3831	Rhizopoda .. .. .	0431
Phenology .. .. .	0219	Rhopalocera .. .. .	4431
Philosophy .. .. .	0000	Rhynchosauria .. .. .	5631
Phœnicopteri .. .. .	5831	Rhynchota .. .. .	4000
Phoronis .. .. .	1800	Rhynchocephalia .. .. .	5631
Phylactolaema .. .. .	2031	Rodentia .. .. .	6031
Phyllopora .. .. .	2631	Rotifera .. .. .	1600
Phylogeny .. .. .	0223	Rudimentary Organs .. .. .	0207
Physiology .. .. .	0211	Sarcosporidia .. .. .	0431
Physopoda .. .. .	3600	Saururæ .. .. .	5831
Phytophthires .. .. .	4031	Scaphopoda .. .. .	2231
Pici .. .. .	5831	Schizopoda .. .. .	2631
Pisces .. .. .	5400	Scolopendrella .. .. .	3431
Plagiostomi .. .. .	5431	Scorpionida .. .. .	3031
Plankton .. .. .	0219	Scyphomedusæ .. .. .	0831
Planipennia .. .. .	3831	Senescence .. .. .	0211
Platyholminthes .. .. .	1200	Sense, Organs of .. .. .	0207
Plesiosauria .. .. .	5631	—— ——— Function of .. .. .	0211
Podargidæ .. .. .	5831	Sessiliventres .. .. .	4631
Podophthalma .. .. .	2631	Sex, Production of .. .. .	0211
Polychæta .. .. .	1800	Sexual Relations .. .. .	0219
Polyzoa .. .. .	2000	Siphonaptera .. .. .	3600
Porifera .. .. .	0600	Sirenia .. .. .	6031
Primates .. .. .	6031	Siricidæ .. .. .	4631
Prochordata .. .. .	5000	Size, Variations of .. .. .	0223
Procolophonia .. .. .	5631	Skeletal Structures (internal) of .. .. .	
Proctotrupidæ .. .. .	4631	Invertebrates .. .. .	0207
Proganosauria .. .. .	5631	Social Relations .. .. .	0219
Proportions, Variations of .. .. .	0223	Societies, Reports of .. .. .	0020
Prosobranchiata .. .. .	2231	Solifugæ .. .. .	3031
Protection .. .. .	0219	Sound Production .. .. .	0219
Proteomyxa .. .. .	0431	Spermatogenesis .. .. .	0215
Protosauria .. .. .	5631	Spermatozoon .. .. .	0215
Prototracheata .. .. .	3200	Sphegidæ .. .. .	4631
Protozoa .. .. .	0400	Spongida .. .. .	0600
Pselaphognatha .. .. .	3431	Sporozoa .. .. .	0431
Pseudoscorpiones .. .. .	3031	Steatornis .. .. .	5831
Psittaci .. .. .	5831	Steganopodes .. .. .	5831
Psocidæ .. .. .	3831	Stegocephala .. .. .	5631
Psychology .. .. .	0219	Stephanidæ .. .. .	4631
Psyllidæ .. .. .	4031	Stereornithes .. .. .	5831
Ptenoglossa .. .. .	2231	Stomatopoda .. .. .	2631
Pterocletes .. .. .	5831	Strepsiptera .. .. .	4800
Pteropoda .. .. .	2231	Striges .. .. .	5831
Pterosauria .. .. .	5631	Stromatoporiidæ .. .. .	0831
Pulmonata .. .. .	2231	Struthiones .. .. .	5831
Pygopodes .. .. .	5831	Stylommatophora .. .. .	2231
Pythonomorpha .. .. .	5631	Subungulata .. .. .	6031
Rachiglossa .. .. .	2231	Symbiosis .. .. .	0219

Symphyla.. .. .	3431	Trepostomata .. .. .	2031
Tables .. .. .	0030	Trichoplax .. .. .	1231
Taenioglossa .. .. .	2231	Trichoptera .. .. .	3800
Tardigrada .. .. .	2800	Trigonalidae .. .. .	4631
Taxonomy, General .. .. .	0231	Trilobita .. .. .	2800
Technique .. .. .	0090	Tubinares .. .. .	5831
Tectibranchiata .. .. .	2231	Tubulifera .. .. .	4631
Tegument.. .. .	0207	Tunicata .. .. .	5000
Telegony .. .. .	0223	Turbellaria .. .. .	1231
Teleostei .. .. .	5431	Ungulata .. .. .	6031
Teleostomi .. .. .	5431	Urodela .. .. .	5631
Tenthredinidæ .. .. .	4631	Utility .. .. .	0060
Teratological Variations.. .. .	0223	Variation .. .. .	0223
Termitidæ .. .. .	3831	Vertebrata .. .. .	5200
Tetractinellida .. .. .	0631	Vespidæ .. .. .	4631
Text Books .. .. .	0030	Vestigial Organs.. .. .	0207
Thoracostraca .. .. .	2631	Voice .. .. .	0219
Thysanoptera .. .. .	3600	Xiphosura .. .. .	2800
Thysanura .. .. .	3631	Zoantharia .. .. .	0831
Tillodontia .. .. .	6031	Zoology, Comprehensive	0000-0231
Time of Appearance, Variations in	0223	— Geographical .. .. .	0227
Toxoglossa .. .. .	2231	— Special .. .. .	0403-6031
Treatises, General .. .. .	0030	— Topographical .. .. .	0227
Trematoda .. .. .	1231	Zygodactyle .. .. .	5831

## TABLE DES MATIÈRES

POUR LA

## ZOOLOGIE (N).

Acanthocéphales .. .. .	1431	Aptérygiens .. .. .	5831
Acarieus .. .. .	3031	Aptérygogéniens .. .. .	3600
Accipitres .. .. .	5831	Aquaria .. .. .	0060
Acclimatation .. .. .	0219	Arachnides .. .. .	3000
Acinécions .. .. .	0431	Aranéides .. .. .	3031
Aceridides .. .. .	3831	Archimnolides .. .. .	1800
Aculeata .. .. .	4631	Arthrodires .. .. .	5431
Adaptation .. .. .	0211	Arthropodes .. .. .	2400
Æpyornithéens .. .. .	5831	Arthrostracés .. .. .	2631
Alciens .. .. .	5831	Artiodactyles .. .. .	6031
Alcyonaires .. .. .	0831	Assimilation .. .. .	0211
Alectorius .. .. .	5831	Astéroïdes .. .. .	1031
Aleurodides .. .. .	4031	Bassomatophores .. .. .	2231
Anamontes .. .. .	2231	Batrachiens .. .. .	5600
Amoebiens .. .. .	0431	Bibliographies .. .. .	0032
Amphibies .. .. .	5600	Biographie .. .. .	0010
Amphineures .. .. .	2231	Blastoïdes .. .. .	1031
Amphioxus .. .. .	5000	Blattides .. .. .	3831
Amphipodes .. .. .	2631	Bourgeonnement .. .. .	0215
Anatomie .. .. .	0207	Brachiopodes .. .. .	2000
Andréniens .. .. .	4631	Braconides .. .. .	4631
Animaux cavernicoles .. .. .	0219	Bryozoaires .. .. .	2000
— pélagiques .. .. .	0219	Calcaires .. .. .	0631
Anisodactyles .. .. .	5831	Cariama .. .. .	5831
Anisopodes .. .. .	2631	Carnivores .. .. .	6031
Anomodontes .. .. .	5631	Carnosa .. .. .	0631
Anoploures .. .. .	3600	Casuariens .. .. .	5831
Anoures .. .. .	5631	Céphalopodes .. .. .	2231
Ansériens .. .. .	5831	Céphalides .. .. .	4631
Antophiles .. .. .	4631	Cestodes .. .. .	1231
Aplaniptères .. .. .	4600	Cétacés .. .. .	6031
Aphides .. .. .	4031	Chætognathes .. .. .	1600
Apides .. .. .	4631	Chalustogastres .. .. .	4631
Apodes .. .. .	5631	Chalcidides .. .. .	4631
Appareils .. .. .	0090	Cheilostomes .. .. .	2031
Aptères .. .. .	3600	Chéloniens .. .. .	5631



Chernérides .. .. .	3031	Durée de la vie .. .. .	0211
Chilognathes .. .. .	3431	Echinodères .. .. .	1600
Chilopodes .. .. .	3431	Echinodermes .. .. .	1000
Chiroptères .. .. .	6031	Echinoïdes .. .. .	1031
Choristodères .. .. .	5631	Ectoproctes .. .. .	2031
Chrysidides .. .. .	4631	Edentés .. .. .	6031
Chyle .. .. .	0207	Edriophthalmes .. .. .	2631
Ciliés .. .. .	0431	Elevage .. .. .	0219
Circulation, Appareil de la .. .. .	0207	Embiides .. .. .	3831
Cirripèdes .. .. .	2631	Embryologie .. .. .	0215
Cnidaria .. .. .	0800	Entéropeustes .. .. .	5000
Coccides .. .. .	4031	Entomostracés .. .. .	2631
Coccidiides .. .. .	0431	Entoproctes .. .. .	2031
Coccygiens .. .. .	5831	Ephémérides .. .. .	3831
Cœlentérés .. .. .	0800	Ethologie .. .. .	0219
Coléoptères .. .. .	4800	Etiologie .. .. .	0223
Collections .. .. .	0060	Euryptérides .. .. .	2800
Collemboles .. .. .	3631	Evauïides .. .. .	4631
Columbins .. .. .	5831	Evolution .. .. .	0223
Conférences .. .. .	0040	Excrétion, Organes d' .. .. .	0207
Congrès .. .. .	0020	Explorations .. .. .	0020
Copépodes .. .. .	2631	Fécondation, Phénomènes de .. .. .	0215
Cornuciens .. .. .	5831	Fécondité, Variations de .. .. .	0223
Cotylosauriens .. .. .	5631	Flagellés .. .. .	0431
Couleur .. .. .	0207, 0219	Fonction, Changement de .. .. .	0211
— Variations de .. .. .	0223	Foraminifères .. .. .	0431
Crinoïdes .. .. .	1031	Forficulides .. .. .	3831
Crocodiliens .. .. .	5631	Forme, Variations de .. .. .	0223
Croisements .. .. .	0223	Formicides .. .. .	4631
Crustacés .. .. .	2600	Fouisseurs .. .. .	4631
Cryptostomes .. .. .	2031	Fulicariens .. .. .	5831
Crypturiens .. .. .	5831	Gallinacés .. .. .	5831
Cténophores .. .. .	0831	Ganoïdes .. .. .	5431
Cténostomes .. .. .	2031	Gastropodes .. .. .	2231
Cunacés .. .. .	2631	Gastrotriches .. .. .	1600
Cyclostomes .. .. .	2031, 5431	Gaviens .. .. .	5831
Cynipides .. .. .	4631	Générations alternantes .. .. .	0215
Cypseliens .. .. .	5831	Genres, Formation des .. .. .	0211
Cystoïdes .. .. .	1031	Géphyriens .. .. .	1800
Décapodes .. .. .	2631	Glandes, Fonction des .. .. .	0211
Défense, Procédés de .. .. .	0219	— spéciales .. .. .	0207
Démospongiaires .. .. .	0631	Gordiens .. .. .	1431
Dentition .. .. .	0207	Graptolites .. .. .	0331
Dermaptères .. .. .	3831	Greffes .. .. .	0223
Développement .. .. .	0215	Grégarinides .. .. .	0431
— Variations de .. .. .	0223	Gryllides .. .. .	3831
Diaptosauriens .. .. .	5631	Gymnolèmes .. .. .	2031
Dibranches .. .. .	2231	Habitat .. .. .	0219
Dictionnaires .. .. .	0030	Habitudes .. .. .	0219
Dicymidæ .. .. .	1231	— Variations d' .. .. .	0223
Dinoflagellés .. .. .	0431	Haemosporidies .. .. .	0431
Dinornithiens .. .. .	5831	Héliozoaires .. .. .	0431
Dinosauriens .. .. .	5631	Hémimérides .. .. .	3831
Diplopes .. .. .	3431	Hémiptères .. .. .	4000
Diploptères .. .. .	4631	Ilérédité .. .. .	0211
Dipnoïques .. .. .	5431	Hermaphrodisme .. .. .	0215
Diptères .. .. .	4200	Hérodiens .. .. .	5831
Discours .. .. .	0040	Hétérocènes .. .. .	4431
Dissogénie .. .. .	0215	Hétérodactyles .. .. .	5831
Distribution géographique .. .. .	0227	Hétérogynes .. .. .	4631

Hétéropodes .. .. .	2231	Musées .. .. .	0060
Hexactinellides .. .. .	0631	Mycétozoaires .. .. .	0131
Hibernation .. .. .	0219	Myologie .. .. .	0207
Hirudinéés .. .. .	1800	Myriapodes .. .. .	3400
Histogénie .. .. .	0215	Myxospongiaires .. .. .	0631
Histoire .. .. .	0010	Myxosporidies .. .. .	0431
Histologie .. .. .	0207	Myzostomaires .. .. .	1800
Holocéphales .. .. .	5431	Nautilus .. .. .	2231
Holothurioides .. .. .	1031	Némathelminthes .. .. .	1400
Hybrides .. .. .	0223	Nématodes .. .. .	1431
Hydroméduses .. .. .	0831	Nématomorphes .. .. .	1431
Hyménoptères .. .. .	4600	Némertiens .. .. .	1231
Ichneumonides .. .. .	4631	Névroptères .. .. .	3800
Ichthyosauriens .. .. .	5631	Nocuité .. .. .	0060
Impennes .. .. .	5831	Nomenclature .. .. .	0070
Infusoires .. .. .	0431	Nucléobranches .. .. .	2231
Insectes .. .. .	3500	Nudibranches .. .. .	2231
Insectivores .. .. .	6031	Odonates .. .. .	3831
Instinct .. .. .	0219	Odontoleiens .. .. .	5831
Instituts sociaux .. .. .	0219	Odontormiens .. .. .	5831
Institutions .. .. .	0020, 0060	Oeuf .. .. .	0215
Instruments .. .. .	0090	Oiseaux .. .. .	5800
Isopodes .. .. .	2631	Oligochètes .. .. .	1800
Jardins .. .. .	0060	Ongulés .. .. .	6031
Kératosa .. .. .	0631	Ontogénie post embryonnaire .. .. .	0215
Kinorhynques .. .. .	1600	Onychophores .. .. .	3200
Labyrinthodontes .. .. .	5631	Ophiidiens .. .. .	5631
Lacertiliens .. .. .	5631	Ophiuroïdes .. .. .	1031
Lamellibranchés .. .. .	2231	Opilions .. .. .	3031
Lépidoptères .. .. .	4400	Opisthobranches .. .. .	2231
Leptocardiens .. .. .	5000	Opisthocomes .. .. .	5831
Leptostracés .. .. .	2631	Organes rudimentaires .. .. .	0207
Limicoliens .. .. .	5831	— tégunentaires .. .. .	0207
Linguatulides .. .. .	2800	Organogénie .. .. .	0215
Liquide de la cavité générale .. .. .	0207	Ornements .. .. .	0219
Locustides .. .. .	3831	Ornithosauriens .. .. .	5631
Luminosité .. .. .	0219	Orthonectidæ .. .. .	1231
Lympe .. .. .	0207	Orthoptères .. .. .	3800
Malacostracés .. .. .	2631	Oryssides .. .. .	4631
Mallophages .. .. .	3600	Ostéologie .. .. .	0207
Mamifères .. .. .	6000	Ostracodermes .. .. .	5431
Mantides .. .. .	3831	Ostracodes .. .. .	2631
Manuels .. .. .	0030	Ovgénèse .. .. .	0215
Marsupiaux .. .. .	6031	Pædogénèse .. .. .	0215
Mastigophores .. .. .	0431	Palamétiidés .. .. .	5831
Maturité, Variations de .. .. .	0223	Palpigrades .. .. .	3031
Megalurides .. .. .	4631	Pantopodes .. .. .	2800
Mésozoaires .. .. .	1200	Parasites .. .. .	4631
Métamorphose .. .. .	0215	Parasitisme .. .. .	0219
Méthodes .. .. .	0090	Parciasauriens .. .. .	5631
Migration .. .. .	0219	Parenté, Relations de .. .. .	0219
Milieu, Influence du .. .. .	0211	Parthénogénèse .. .. .	0215
Mimétisme .. .. .	0219	Passereaux .. .. .	5831
Mollusques .. .. .	2200	Paupodes .. .. .	3431
Monaxonides .. .. .	0631	Pédagogie .. .. .	0050
Monotrèmes .. .. .	6031	Pédipalpes .. .. .	3031
Monticuliporides .. .. .	0831	Pélécinides .. .. .	4631
Morphologie .. .. .	0207	Pélécyppodes .. .. .	2231
Mort .. .. .	0211	Périodiques .. .. .	0020
Multituberculés .. .. .	6031	Peripatus .. .. .	3231

Périsodactyles .. .. .	6031	Reproduction, Organes de ..	0207
Perlides .. .. .	3831	Reptiles .. .. .	5609
Perroquets .. .. .	5831	Respiration .. .. .	0211
Phalangides .. .. .	3031	— Appareil de la .. .. .	0207
Phasmites .. .. .	3831	Ressemblance .. .. .	0219
Phénologie .. .. .	0219	Rhéens .. .. .	5831
Philosophie .. .. .	0000	Rhipidoglosses .. .. .	2231
Phénicoptères .. .. .	5831	Rhiptoglosses .. .. .	5631
Phoronis .. .. .	1800	Rhopalocères .. .. .	4431
Phylactolèmes .. .. .	2031	Rhynchocéphales .. .. .	5631
Phyllopodés .. .. .	2631	Rhynchosauriens .. .. .	5631
Phylogénie .. .. .	0223	Rhynchotes .. .. .	4000
Physiologie .. .. .	0211	Rhyzopodes .. .. .	0431
Physonodes .. .. .	3600	Rongeurs .. .. .	6031
Phytophthires .. .. .	4031	Rotifères .. .. .	1600
Pics .. .. .	5831	Sang .. .. .	0207
Plagiostomes .. .. .	5431	Sarcosporidies .. .. .	0431
Planipennes .. .. .	3831	Sauriens .. .. .	5831
Plankton .. .. .	0219	Scaphopodes .. .. .	2231
Platyhelminthes .. .. .	1200	Schizopodes .. .. .	2631
Plésiosauriens .. .. .	5631	Scolopendrelles .. .. .	3431
Podarges .. .. .	5831	Scorpionides .. .. .	3031
Podophthalmaires .. .. .	2631	Scyphoméduses .. .. .	0831
Poissons .. .. .	5400	Sénescence .. .. .	0211
Polychètes .. .. .	1800	Sens, Organes des .. .. .	0211
Polyzoaires .. .. .	2000	— Fonctions des organes des ..	0207
Ponte .. .. .	0219	Sessiliventes .. .. .	4631
Porifères .. .. .	0600	Sexes, Production des .. .. .	0211
Porte-Aiguillons .. .. .	4631	Siphonaptères .. .. .	3600
Primates .. .. .	6031	Siréniens .. .. .	6031
Prochordés .. .. .	5000	Siricides .. .. .	4631
Procolophoniens .. .. .	5631	Sociétés, Rapports de .. .. .	0020
Proctotrupides .. .. .	4631	Solifuges .. .. .	3031
Proganosauriens .. .. .	5631	Sons, Production des .. .. .	0219
Proportions, Variations de ..	0223	Spermatogénèse .. .. .	0215
Prosobranches .. .. .	2231	Spermatozoïdes .. .. .	0215
Protection .. .. .	0219	Sphérides .. .. .	4631
Protéomyxes .. .. .	0431	Spongiaires .. .. .	0600
Protosauriens .. .. .	5631	Sporozoïdes .. .. .	0431
Prototrachéates .. .. .	3200	Squelette interne des invertébrés	0207
Protozoaires .. .. .	0400	Steatornis .. .. .	5831
Psélapognathes .. .. .	3431	Stéganopodes .. .. .	5831
Pseudoscorpions .. .. .	3031	Stégocéphales .. .. .	5631
Psocides .. .. .	3831	Stéphanides .. .. .	4631
Psychologie .. .. .	0219	Stéréornithiens .. .. .	5831
Psyllides .. .. .	4031	Stomatopodes .. .. .	2631
Ptenoglossa .. .. .	2231	Strepsiptères .. .. .	4800
Ptérocliens .. .. .	5831	Strigiens .. .. .	5831
Ptéropodes .. .. .	2231	Stromatoporides .. .. .	0831
Ptérosauriens .. .. .	5631	Struthioniens .. .. .	5831
Pulmonés .. .. .	2231	Stylommatophores .. .. .	2231
Pygopodes .. .. .	5831	Subongulés .. .. .	6031
Pythonomorphes .. .. .	5631	Symbiose .. .. .	0219
Rachiglosses .. .. .	2231	Symphyliens .. .. .	3431
Radiolaires .. .. .	0431	Système digestif .. .. .	0207
Recueils .. .. .	0030	— nerveux .. .. .	0207
Régénération .. .. .	0215	Tables .. .. .	0030
Relations sexuelles .. .. .	0219	Taenioglosses .. .. .	2231
— sociales .. .. .	0219	Taille, Variations de la .. ..	0223
Reproduction .. .. .	0215	Taxonomie en général .. .. .	0231

Technique .. .. .	0090	Trygonalides .. .. .	4631
Tectibranches .. .. .	2231	Tubinariens .. .. .	5831
Télégonie .. .. .	0223	Tuniciers .. .. .	5000
Téléostéens .. .. .	5431	Turbellariés .. .. .	1231
Téléostomes .. .. .	5431	Unions consanguines .. .. .	0223
Tenthredinides .. .. .	4631	Urodèles .. .. .	5631
Termitides .. .. .	3831	Utilité .. .. .	0060
Tetractinellides .. .. .	0631	Variation .. .. .	0223
Thoracostracés .. .. .	2631	Vertébrés .. .. .	5200
Thysanoptères .. .. .	3603	Vespides .. .. .	4631
Thysanoures .. .. .	3631	Voix .. .. .	0219
Tillodontes .. .. .	6031	Xiphosures .. .. .	2800
Toxoglosses .. .. .	2231	Zoanthaires .. .. .	0831
Traités généraux .. .. .	0030	Zoologie générale.. .. .	0000-0231
Trématodes .. .. .	1231	— géographique .. .. .	0227
Trepostomes .. .. .	2031	— spéciale .. .. .	0400-6031
Trichoplax .. .. .	1231	— topographique .. .. .	0227
Trichoptères .. .. .	3800	Zygodactyles .. .. .	5831
Trilobites .. .. .	2800		

## INDEX

ZU

## (N) ZOOLOGIE.

Abhandlungen, Allgemeine .. .. .	0030	Anura .. .. .	5631
Acanthocephala .. .. .	1431	Aphaniptera .. .. .	3600-3631
Acari .. .. .	3031	Aphidæ .. .. .	4031
Acarida .. .. .	3031	Apidæ Andreuidæ .. .. .	4631
Accipitres.. .. .	5831	Apoda .. .. .	5631
Acinetaria .. .. .	0431	Apparate .. .. .	0090
Aceridiidæ .. .. .	3831	Aptera .. .. .	3600-3631
Aculeata .. .. .	4631	Apterygos. .. .. .	5831
Aehnlichkeiten .. .. .	0219	Apterygogenea .. .. .	3600-3631
Æpyornithes .. .. .	5831	Aquarien .. .. .	0060
Ætiologie .. .. .	0223	Arachnida .. .. .	3000-3031
Akklimatisation .. .. .	0219	Araneida .. .. .	3031
Alcæ .. .. .	5831	Archannelida .. .. .	1800-1831
Alcyonaria .. .. .	0831	Arthrodira .. .. .	5431
Alectorides .. .. .	5831	Arthropoda .. .. .	2400-2431
Aleurodida .. .. .	4031	Arthrostraca .. .. .	2631
Altern .. .. .	0211	Artiodactyla .. .. .	6031
Ammonæa .. .. .	2231	Assimilation .. .. .	0211
Amoebæa .. .. .	0431	Asteroidæ .. .. .	1031
Amphibia .. .. .	5631	Atmung .. .. .	0211
Amphineura .. .. .	2231	Aves .. .. .	5800-5831
Amphioxus .. .. .	5000-5031	Bassomatophora .. .. .	2231
Amphipoda .. .. .	2631	Bastardbildung .. .. .	0223
Anatomic .. .. .	0207	Batrachia .. .. .	5600-5631
Andrenidæ .. .. .	4631	Befruchtungs-Phänomene .. .. .	0215
Anisodactylæ .. .. .	5831	Bibliographien .. .. .	0032
Anisopoda .. .. .	2631	Biographien .. .. .	0010
Anomodontia .. .. .	5631	Bionomische Variation .. .. .	0223
Anoplura .. .. .	3600-3631	Blastoidæ .. .. .	1031
Anpassung .. .. .	0211	Blattidæ .. .. .	3831
Anseres .. .. .	5831	Blut .. .. .	0207
Anthophila .. .. .	4631	Brachiopoda .. .. .	2000-2031

Braconidae .. .. .	4631	Diplopoda .. .. .	3431
Bryozoa .. .. .	2000-2031	Diploptera .. .. .	4631
Calcarea .. .. .	0631	Dipnoi .. .. .	5431
Cariama .. .. .	5831	Diptera .. .. .	4200-4231
Carnivora .. .. .	6031	Dissogonie .. .. .	0215
Carnosa .. .. .	0631	Drüsen .. .. .	0207-0211
Casuarii .. .. .	5831	Ecaudata .. .. .	5631
Caudata .. .. .	5631	Echinodera .. .. .	1600-1631
Cephalopoda .. .. .	2231	Echinodermata .. .. .	1000-1031
Cephidae .. .. .	4631	Echinoidea .. .. .	1031
Cestoda .. .. .	1231	Ectoprocta .. .. .	2031
Cetacea .. .. .	6031	Edentata .. .. .	6031
Chaetognatha .. .. .	1600-1631	Edriophthalma .. .. .	2631
Chalastogastra .. .. .	4631	Eiablage .. .. .	0219
Chalcididae .. .. .	4631	Embiidae .. .. .	3831
Cheilostomata .. .. .	2031	Embryologie .. .. .	0215
Chelonia .. .. .	5631	Endoprocta .. .. .	2031
Chernofida .. .. .	3031	Enteropneusta .. .. .	5000-5031
Chilognatha .. .. .	3431	Entomostraca .. .. .	2631
Chilopoda .. .. .	3431	Entwicklung .. .. .	0215
Chiroptera .. .. .	6031	Ephemerae .. .. .	3831
Choristodera .. .. .	5631	Ernährungs-System .. .. .	0207
Chylus .. .. .	0207	Ethologie .. .. .	0219
Ciliata .. .. .	0431	Euryptera .. .. .	2800-2831
Circulationsorgane .. .. .	0207	Evanidae .. .. .	4631
Cirripedia .. .. .	2631	Evolution .. .. .	0223
Cnidaria .. .. .	0800-0831	Excretions-Organ .. .. .	0207
Coccidae .. .. .	4031	Farbe .. .. .	0207, 0219, 0223
Cocciidea .. .. .	0431	Festreden .. .. .	0010
Coccyges .. .. .	5831	Flagellata .. .. .	0431
Coelenterata .. .. .	0800-0831	Forficulidae .. .. .	3831
Coelomflüssigkeit .. .. .	0207	Form .. .. .	0223
Coleoptera .. .. .	4800-4831	Formicide .. .. .	4631
Collembola .. .. .	3631	Fortpflanzung .. .. .	0215
Columbae .. .. .	5831	Forschungsreisen .. .. .	0020
Copepoda .. .. .	2631	Fossoria .. .. .	4631
Coraciæ .. .. .	5831	Fulicariae .. .. .	5831
Cotylosaurin .. .. .	5631	Funktionswechsel .. .. .	0211
Crinoidea .. .. .	1031	Gärten .. .. .	0060
Crocodylia .. .. .	5631	Gallinae .. .. .	5831
Crustacea .. .. .	2600-2631	Ganoidei .. .. .	5431
Cryptostomata .. .. .	2031	Gastropoda .. .. .	2231
Crypturi .. .. .	5831	Gastrotricha .. .. .	1600-1631
Crysididae .. .. .	4631	Gavia .. .. .	5831
Ctenophora .. .. .	0831	Gephyrea .. .. .	1800-1831
Cumacea .. .. .	2631	Generationswechsel .. .. .	0215
Cyclostomata .. .. .	2031	Geographische Zoologie .. .. .	0227
Cyclostomi .. .. .	5431	Geschichte .. .. .	0010
Cynipidae .. .. .	4631	Gesellschaften, Berichte von .. .. .	0020
Cypseli .. .. .	5831	Gordidae .. .. .	1431
Cystoidea .. .. .	1031	Graptolites .. .. .	0831
Decapoda .. .. .	2631	Gregarinida .. .. .	0431
Demospongiae .. .. .	0631	Grösse .. .. .	0223
Dermaptera .. .. .	3831	Gryllidae .. .. .	3831
Diaptosauria .. .. .	5631	Gymnolaema .. .. .	2031
Dibranchiata .. .. .	2231	Habitat .. .. .	0219
Dicyemidae .. .. .	1231	Haemosporidia .. .. .	043
Dinoflagellata .. .. .	0431	Heerdenleben .. .. .	021
Dinornithes .. .. .	5831	Heliozoa .. .. .	0431
Dinosauria .. .. .	5631	Hemimerida .. .. .	3831

Hemiptera .. .. .	4031	Methoden.. .. .	0090
Hermaphroditismus .. .. .	0215	Mimicry .. .. .	0219
Herodiones .. .. .	5831	Mollusca .. .. .	2200-2231
Heterocera .. .. .	4431	Monaxonida .. .. .	0631
Heterodactylæ .. .. .	5831	Monotremata .. .. .	6031
Heterogyna .. .. .	4631	Monticuliporidae .. .. .	0831
Heteropoda .. .. .	2231	Morphologie .. .. .	0207
Heteroptera, Hemiptera .. .. .	4031	Multituberculata .. .. .	6031
Hexactinellida .. .. .	0631	Museen .. .. .	0060
Hirudinea .. .. .	1800-1831	Mycetozoa .. .. .	0431
Histogenic .. .. .	0215	Myologie .. .. .	0207
Histologie .. .. .	0207	Myriopoda .. .. .	3400-3431
Höheltiere .. .. .	0219	Myxospongida .. .. .	0631
Holocephali .. .. .	5431	Myxosporidia .. .. .	0431
Holothurioida .. .. .	1031	Myzostomaria .. .. .	1800-1831
Homocotische Variation .. .. .	0223	Nautiloida .. .. .	2231
Hydromedusæ .. .. .	0831	Nemathelminthes .. .. .	1400-1431
Hymenoptera .. .. .	4600-4631	Nematoda.. .. .	1431
Ichnemonidae .. .. .	4631	Nematomorpha .. .. .	1431
Ichthyosauria .. .. .	5631	Nemertinea .. .. .	1231
Impennes .. .. .	5831	Nervensystem .. .. .	0207
Infusoria .. .. .	0431	Neuroptera .. .. .	3800-3831
Insecta .. .. .	3500	Nomenklatur .. .. .	0070
Insectivora .. .. .	6031	Nucleobranchiata .. .. .	2231
Instinkt .. .. .	0219	Nudibranchiata .. .. .	2231
Institute .. .. .	0020, 0060	Nützlichkeit .. .. .	0060
Instrumente .. .. .	0090	Odonata .. .. .	3831
Inzucht .. .. .	0223	Odontolæ .. .. .	5831
Isopoda .. .. .	2631	Odontormæ .. .. .	5831
Keratosa .. .. .	0631	Oligochæta .. .. .	1800-1831
Klassifikation .. .. .	0231	Ontogenie, postembryonische .. .. .	0215
Kinorhyncha .. .. .	1600-1631	Onychophora .. .. .	3200-3231
Knospnbildung .. .. .	0215	Oogenesis .. .. .	0215
Kongresse, Berichte von .. .. .	0020	Ophidia .. .. .	5631
Kreuzung.. .. .	0223	Ophiuroidea .. .. .	1031
Labyrinthodontia .. .. .	5631	Opiliones .. .. .	3031
Lacertilia .. .. .	5631	Opisthobranchiata .. .. .	2231
Lamellibranchiata .. .. .	2231	Opisthocomi .. .. .	5831
Larvenformen .. .. .	0215	Organogenie .. .. .	0215
Lebensdauer .. .. .	0211	Ornithosauria .. .. .	5631
Lebensgewohnheiten .. .. .	0219	Orthonectidæ .. .. .	1231
Lehrbücher .. .. .	0030	Orthoptera .. .. .	3800-3831
Lepidoptera .. .. .	4400-4431	Oryssidæ .. .. .	4631
Leptocardii .. .. .	5000-5031	Osteologie.. .. .	0207
Leptostraca .. .. .	2631	Ostracoda .. .. .	2631
Leuchtvermögen.. .. .	0219	Ostracodermi .. .. .	5431
Limicolæ .. .. .	5831	Ovum .. .. .	0215
Linguatulida .. .. .	2800-2831	Pädagogik .. .. .	0050
Locustidæ.. .. .	3831	Pædogenesis .. .. .	0215
Lympe .. .. .	0207	Palamediidæ .. .. .	5831
Malacostraca .. .. .	2631	Palpigradi .. .. .	3031
Mallophaga .. .. .	3600-3631	Pantopoda .. .. .	2800-2831
Mammalia .. .. .	6000-6031	Parasitica.. .. .	4631
Mantide .. .. .	3831	Parasitismus .. .. .	0219
Marsupialia .. .. .	6031	Pareiasauria .. .. .	5631
Mastigophora .. .. .	0431	Parthenogenesis .. .. .	0215
Megalyridæ .. .. .	4631	Passeres .. .. .	5831
Meristische Variation .. .. .	0223	Paupoda .. .. .	3431
Mesozoa .. .. .	1200-1231	Pedipalpi .. .. .	3031
Metamorphose .. .. .	0215	Pelagische Tiere .. .. .	0219

Pelecimidæ .. .. .	4631	Reptilia .. .. .	5600-5631
Pelecypoda .. .. .	2231	Respirationsorgane .. .. .	0207
Periodica .. .. .	0020	Rheæ .. .. .	5831
Peripatus .. .. .	3231	Rhipidoglossa .. .. .	2231
Perissodactyla .. .. .	6031	Rhiptoglossa .. .. .	5631
Perlidæ .. .. .	3831	Rhizopoda .. .. .	0431
Pfropfen .. .. .	0223	Rhopalocera .. .. .	4431
Phänologie! .. .. .	0219	Rhynchocephalia .. .. .	5631
Phalangida .. .. .	3031	Rhynchosauria .. .. .	5631
Phasmidæ .. .. .	3831	Rhynchota .. .. .	4000-4031
Philosophie .. .. .	0000	Rodentia .. .. .	6031
Phanicopteri .. .. .	5831	Rotifera .. .. .	1600-1631
Phoronis .. .. .	1800-1831	Rudimentäre Organe .. .. .	0207
Phylactolaema .. .. .	2031	Sammelwerke .. .. .	0030
Phyllopoda .. .. .	2631	Sammlungen .. .. .	0060
Phylogenie .. .. .	0223	Sarcosporidia .. .. .	0451
Physiologie .. .. .	0211	Saururæ .. .. .	5831
Physopoda .. .. .	3600-3631	Scaphopoda .. .. .	2231
Phytophthires .. .. .	4031	Schädlichkeiit .. .. .	0060
Pici .. .. .	5831	Schizopoda .. .. .	2631
Pisces .. .. .	5400-5431	Schmuck .. .. .	0219
Plagiostomi .. .. .	5431	Schutzmittel .. .. .	0219
Planipennia .. .. .	3831	Scelopendrella .. .. .	3431
Plankton .. .. .	0219	Scorpionida .. .. .	3031
Platyhelminthes .. .. .	1200-1231	Scyphomedusæ .. .. .	0831
Plesiosauria .. .. .	5631	Sessiliventres .. .. .	4631
Podargidae .. .. .	5831	Sexuelle Beziehungen .. .. .	0219
Podophthalmata .. .. .	2613	Sinnesorgane .. .. .	0207, 0211
Polychæta .. .. .	1800-1831	Siphonaptera .. .. .	3600-3631
Polyzoa .. .. .	2000-2031	Sirenia .. .. .	6031
Porifera .. .. .	0600-0631	Siricidæ .. .. .	4631
Postembryonale Ontogenie .. .. .	0215	Solifugæ .. .. .	3031
Primates .. .. .	6031	Soziale Beziehungen .. .. .	0219
Prochordata .. .. .	5000-5031	Spermatogenesis .. .. .	0215
Procolophonina .. .. .	5631	Spermatozoon .. .. .	0215
Proctotrupidæ .. .. .	4631	Splhegida .. .. .	4631
Proganosauria .. .. .	5631	Spongida .. .. .	0600-0631
Proportionen .. .. .	0223	Sporozoa .. .. .	0431
Prosobranchiata .. .. .	2231	Stentornis .. .. .	5831
Proteomyxa .. .. .	0431	Steganopodes .. .. .	5831
Protosauria .. .. .	5631	Stegocephala .. .. .	5631
Prototracheata .. .. .	3200-3231	Stephanidæ .. .. .	4631
Protozoa .. .. .	0400-0431	Stereornithes .. .. .	5831
Pselaphognatha .. .. .	3431	Stimme .. .. .	0219
Pseudoscorpiones .. .. .	3031	Stomatopoda .. .. .	2631
Psittaci .. .. .	5831	Strepsiptera .. .. .	4800-4831
Psocidæ .. .. .	3831	Striges .. .. .	5831
Psychologic .. .. .	0219	Stromatoporidæ .. .. .	0831
Psyllidæ .. .. .	4031	Structur .. .. .	0207
Ptenoglossa .. .. .	2231	Struthiones .. .. .	5831
Pterocletes .. .. .	5831	Stylommatophora .. .. .	2231
Pteropoda .. .. .	2231	Subungulata .. .. .	6031
Pterosauria .. .. .	5631	Symbiose .. .. .	0219
Pulmonata .. .. .	2231	Symphyla .. .. .	3431
Pygopodes .. .. .	5831	Tabellen .. .. .	0030
Pythonomorpha .. .. .	5631	Taeniglossa .. .. .	2231
Rachiglossa .. .. .	2231	Tardigrada .. .. .	2800-2831
Radiolaria .. .. .	0431	Taxonomie .. .. .	0231
Regeneration .. .. .	0215	Technik .. .. .	0090
Reproduktive Organe .. .. .	0207	Tectibranchiata .. .. .	2231



Tegument.. ..	0207	Trilobita .. ..	2800-2831
Telegonio .. ..	0223	Tubinarea .. ..	5831
Teleostei .. ..	5431	Tubulifera .. ..	4631
Teleostomi .. ..	5431	Tunicata .. ..	5000-5031
Tenthredinidæ .. ..	4631	Turbellaria .. ..	1231
Teratologische Variation .. ..	0223	Ungulata .. ..	6031
Termitidæ .. ..	3831	Urodela .. ..	5631
Tetractinellida .. ..	0631	Variation .. ..	0223
Thoracostraca .. ..	2631	Vererbung .. ..	0223
Thysanoptera .. ..	3600-3631	Vertebrata .. ..	5200-5231
Thysanura .. ..	3631	Verteidigung .. ..	0219
Tiefsee-Tiere .. ..	0219	Vespidæ .. ..	4631
Tillodontia .. ..	6031	Vorträge .. ..	0040
Tod .. ..	0211	Wanderung .. ..	0219
Topographische Zoologie .. ..	0227	Winterschlaf .. ..	0219
Toxoglossa .. ..	2231	Wörterbücher .. ..	0030
Trematoda .. ..	1231	Xiphosura .. ..	2800-2831
Trepostomata .. ..	2031	Zahnbildung .. ..	0207
Trichoplax .. ..	1200-1231	Zoantharia .. ..	0831
Trichoptera .. ..	3800-3831	Züchtung .. ..	0219
Trigonalidæ .. ..	4631	Zygodactylæ .. ..	5831

## INDICE

PER LA

## ZOOLOGIA (N).

Abissali, Animali delle zone ..	0219	Apidae .. .. .	4631
Abitudini .. .. .	0219	Apoda .. .. .	5631
— Variazioni di .. .. .	0223	Apparato .. .. .	0090
Acanthocephala .. .. .	1431	Aptera .. .. .	3600
Aerei .. .. .	3031	Apterygos.. .. .	5831
Acarida .. .. .	3031	Apterygogonca .. .. .	3600
Accipitres.. .. .	5831	Aquaria .. .. .	0060
Acclimatazione .. .. .	0219	Arachnida .. .. .	3000
Acinetaria.. .. .	0431	Araneida .. .. .	3031
Acridiidae.. .. .	3831	Archannelida .. .. .	1800
Aeuleata .. .. .	4631	Arthrodira .. .. .	5431
Adattamento .. .. .	0211	Arthropoda .. .. .	2400
Æpiornithes .. .. .	5831	Arthrostraca .. .. .	2631
Alca .. .. .	5831	Artiodactyla .. .. .	6031
Aleyonaria .. .. .	0831	Assimilazione .. .. .	0211
Alectoridae .. .. .	5831	Asteroidea .. .. .	1031
Aleurodidae .. .. .	4031	Aves .. .. .	5800
Alimentare, Apparecchio .. .. .	0207	Bassomatophora .. .. .	2231
Allevamento .. .. .	0219	Batrachia .. .. .	5600
Ambiente, Effetti dell' .. .. .	0211	Bibliografie .. .. .	0032
Ammonidae .. .. .	2231	Biografia .. .. .	0010
Amoebaea.. .. .	0431	Bionomiche, Variazioni .. .. .	0223
Amphibia.. .. .	5600	Blastoidea .. .. .	1031
Amphineura .. .. .	2231	Blattidae .. .. .	3831
Amphioxus .. .. .	5000	Brachiopoda .. .. .	2000
Amphipoda .. .. .	2631	Braconidae .. .. .	4631
Anatoma .. .. .	0207	Bryozoa .. .. .	2000
Andrenidae .. .. .	4631	Calcarea .. .. .	0631
Anisodactylæ .. .. .	5831	Cariama .. .. .	5831
Anisopoda .. .. .	2631	Carnivora .. .. .	6031
Anomodontia .. .. .	5631	Carnosa .. .. .	0631
Anoplura .. .. .	3600	Caste, Produzione di .. .. .	0211
Anseres .. .. .	5831	Casuarii .. .. .	5831
Anthophila .. .. .	4631	Caudata .. .. .	5631
Anoura .. .. .	5631	Cavernicoli, Animali .. .. .	0219
Aphaniptera .. .. .	3600	Celomatico, Liquido .. .. .	0207
Aphidæ .. .. .	4031	Cephalopoda .. .. .	2231

Cephidæ .. .. .	4631	Dipnoi .. .. .	5431
Cestoda .. .. .	1231	Diptera .. .. .	4200
Cetacea .. .. .	6031	Discorsi .. .. .	0040
Chætogonatha .. .. .	1600	Dissogonia .. .. .	0215
Chalastogastra .. .. .	4631	Distribuzione geografica .. .. .	0227
Chaleididæ .. .. .	4631	Durata della Vita .. .. .	0211
Chœlostomata .. .. .	2031	Eaeudata .. .. .	5631
Chelonia .. .. .	5631	Echinodera .. .. .	1600
Chernetida .. .. .	3031	Echinodermata .. .. .	1000
Chilo .. .. .	0207	Echinoidea .. .. .	1031
Chilognatha .. .. .	3431	Entoprocta .. .. .	2031
Chilopoda .. .. .	3431	Ephemèridæ .. .. .	3831
Chiroptera .. .. .	6031	Epoca d'apparizione, Variazioni	
Choristodera .. .. .	5631	di .. .. .	0223
Chrysididæ .. .. .	4631	Eredità .. .. .	0223
Ciliata .. .. .	0431	Ermafroditismo .. .. .	0215
Circolazione, Organi della .. .. .	0207	Eseretori, Organi .. .. .	0207
Cirripedia .. .. .	2631	Esplorazioni .. .. .	0020
Cnidaria .. .. .	0800	Etiologia .. .. .	0223
Coecidæ .. .. .	4031	Etologia .. .. .	0219
Coecidiidæ .. .. .	0431	Eurypterida .. .. .	2800
Coecyges .. .. .	5831	Evaniidæ .. .. .	4631
Coelenterata .. .. .	0800	Evoluzione .. .. .	0223
Coleoptera .. .. .	4800	Fecundazione, Fenomeni di .. .. .	0215
Collembola .. .. .	3631	Fecundità, Variazioni di .. .. .	0223
Collezioni .. .. .	0060	Fenologia .. .. .	0219
Colore .. .. .	0207, 0219	Filogenia .. .. .	0223
— Variazioni di .. .. .	0223	Filosofia .. .. .	0000
Columbæ .. .. .	5831	Fisiologia .. .. .	0211
Congressi .. .. .	0020	Flagellata .. .. .	0431
Consanguineità .. .. .	0223	Foraminifera .. .. .	0431
Copepoda .. .. .	2631	Forficulidæ .. .. .	3831
Coraciæ .. .. .	5831	Forma, Variazioni di .. .. .	0223
Cotylosauria .. .. .	5631	Formicidæ .. .. .	4631
Crinoidea .. .. .	1031	Fossoria .. .. .	4631
Crocodilia .. .. .	5631	Fulicariæ .. .. .	5831
Crustacea .. .. .	2600	Funzione, Cambiamento di .. .. .	0211
Cryptostomata .. .. .	2031	Gallinæ .. .. .	5831
Crypturi .. .. .	5831	Ganoidei .. .. .	5431
Ctenophora .. .. .	0831	Gastropoda .. .. .	2231
Ctenostomata .. .. .	2031	Gastrotricha .. .. .	1600
Cumacea .. .. .	2631	Gaviæ .. .. .	5831
Cyclostomata .. .. .	2031	Gemmazione .. .. .	0215
Cyclostomi .. .. .	5431	Generazioni, Alternanza delle .. .. .	0215
Cynipidæ .. .. .	4631	Gephyrea .. .. .	1800
Cypseli .. .. .	5831	Giardini .. .. .	0060
Cystoidea .. .. .	1031	Glandule, Funzioni delle .. .. .	0211
Decapoda .. .. .	2631	— speciaali .. .. .	0207
Demospongiæ .. .. .	0631	Gordiidae .. .. .	1431
Dentizione .. .. .	0207	Graptolites .. .. .	0831
Dermaptera .. .. .	3831	Gregarii, Istinti .. .. .	0219
Dibranchiata .. .. .	2231	Gregarinida .. .. .	0431
Dicymidæ .. .. .	1231	Gryllidæ .. .. .	3831
Difensivi, Processi .. .. .	0219	Gymnolacina .. .. .	2031
Dimensione, Variazioni di .. .. .	0223	Habitat .. .. .	0219
Dinoflagellata .. .. .	0431	Haemosporidia .. .. .	0431
Dinornithes .. .. .	5831	Heliozoa .. .. .	0431
Dinosauria .. .. .	5631	Hemimeridæ .. .. .	3831
Diplopoda .. .. .	3431	Hemiptera .. .. .	4000
Diploptera .. .. .	4631	Herodiones .. .. .	5831

Heterocera .. .. .	4431	Monticuliporidae .. .. .	0831
Heterodactylæ .. .. .	5831	Morfologia .. .. .	0207
Heterogyna .. .. .	4631	Morte .. .. .	0211
Heteropoda .. .. .	2231	Multitubereolata .. .. .	6031
Hexaetnellida .. .. .	0631	Musei .. .. .	0060
Hirudinea .. .. .	1800	Myriopoda .. .. .	3400
Holocephali .. .. .	5431	Myxospongiida .. .. .	0631
Holothuriodea .. .. .	1031	Myxosporidia .. .. .	0431
Hydromedusæ .. .. .	0831	Myzostomaria .. .. .	1800
Hymenoptera .. .. .	4600	Nautiloidea .. .. .	2231
Ibernazione .. .. .	0219	Nemathelminthes .. .. .	1400
Ibridi .. .. .	0223	Nematoda .. .. .	1431
Ichneumonidae .. .. .	4631	Nematomorpha .. .. .	1431
Ichthyosauria .. .. .	5631	Nemertinea .. .. .	1231
Imponnes .. .. .	5831	Nervoso, Sistema .. .. .	0207
Incrocamenti .. .. .	0223	Neuroptera .. .. .	3800
Infusoria .. .. .	0431	Nocività .. .. .	0060
Inncsti .. .. .	0223	Nomenclatura, Principi di .. .. .	0070
Insecta .. .. .	3500	Nucleobranchiata .. .. .	2231
Insectivora .. .. .	6031	Nudibranchiata .. .. .	2231
Iperzoologia .. .. .	0000	Odonata .. .. .	3831
Isopoda .. .. .	2631	Odontolcæ .. .. .	5831
Istinto .. .. .	0219	Odontormæ .. .. .	5831
Istituzioni .. .. .	0020, 0060	Oligochaeta .. .. .	1800
Istogenia .. .. .	0215	Oncotiche, Variazioni .. .. .	0223
Istologia .. .. .	0207	Ontogenia postembrionale .. .. .	0215
Istrumenti .. .. .	0090	Onychophora .. .. .	3200
Keratosu .. .. .	0631	Oogenesi .. .. .	0215
Kinoryncha .. .. .	1600	Ophiidia .. .. .	5631
Labyrinthodontia .. .. .	5631	Ophiuroidea .. .. .	1031
Lacertilia .. .. .	5631	Opiliones .. .. .	3031
Lamellibranchiata .. .. .	2231	Opisthobranchiata .. .. .	2231
Lepidoptera .. .. .	4400	Opisthocomi .. .. .	5831
Leptocardii .. .. .	5000	Organogenia .. .. .	0215
Leptostraca .. .. .	2631	Ornamenti .. .. .	0219
Lezioni .. .. .	0040	Ornithosauria .. .. .	5631
Limicole .. .. .	5831	Orthoneetidae .. .. .	1231
Linfu .. .. .	0207	Orthoptera .. .. .	3800
Linguatulida .. .. .	2800	Oryssidæ .. .. .	4631
Locustida .. .. .	3831	Osteologia .. .. .	0207
Luminosità .. .. .	0219	Ostracoda .. .. .	2631
Mallophaga .. .. .	3600	Ostracoderni .. .. .	5431
Malocostraca .. .. .	2631	Oviposizione .. .. .	0219
Mammalia .. .. .	6000	Palamediidæ .. .. .	5831
Mantidæ .. .. .	3831	Palpigradi .. .. .	3031
Manuali .. .. .	0030	Pantopoda .. .. .	2800
Marsupialia .. .. .	6031	Parasitica .. .. .	4631
Mastigophora .. .. .	0431	Parasitismo .. .. .	0219
Maturità, Variazioni di .. .. .	0223	Parciansauria .. .. .	5631
Megalryidæ .. .. .	4631	Parentali, Rapporti .. .. .	0219
Meristiche, Variazioni .. .. .	0223	Partenogenesi .. .. .	0215
Mesozoa .. .. .	1200	Passeres .. .. .	5831
Metamorfosi .. .. .	0215	Pauropoda .. .. .	3431
Metodi .. .. .	0090	Pedagogia .. .. .	0050
Migrazione .. .. .	0219	Pedipalpi .. .. .	3031
Mimetismo .. .. .	0219	Pedogenesi .. .. .	0215
Miologia .. .. .	0207	Pelagici, Animali .. .. .	0219
Mollusca .. .. .	2200	Peleciniidæ .. .. .	4631
Monaxoniduo .. .. .	0631	Pelecypoda .. .. .	2231
Monotremata .. .. .	6031	Periodici .. .. .	0020

Peripatus .. .. .	3231	Rhynchosauria .. .. .	5631
Perissoductyla .. .. .	6031	Rhynchota .. .. .	4400
Perlidæ .. .. .	3831	Rhynchocephalia .. .. .	5631
Phalangida .. .. .	3031	Rigenerazione .. .. .	0211
Phasmidæ .. .. .	3831	Riproduttivi, Organi .. .. .	0207
Phœnicopteri .. .. .	5831	Riproduzione .. .. .	0215
Phoronis .. .. .	1800	Rodentia .. .. .	6031
Phylactolaema .. .. .	2031	Rotifera .. .. .	1600
Phyllopoda .. .. .	2631	Rudimentali, Organi .. .. .	0207
Physopoda .. .. .	3600	Sangue .. .. .	0207
Phytophthires .. .. .	4031	Sarcosporidia .. .. .	0431
Pici .. .. .	5831	Saururæ .. .. .	5831
Pisces .. .. .	5400	Scaphopoda .. .. .	2231
Plagiostomi .. .. .	5431	Scheletriche, Strutture interne, degli invertebrati .. .. .	0207
Planipennia .. .. .	3831	Schizopoda .. .. .	2631
Plankton .. .. .	0219	Scolopendrella .. .. .	3431
Platyhelminthes .. .. .	1200	Scorpionida .. .. .	3031
Plesiosauria .. .. .	5631	Scyphomedusæ .. .. .	0831
Podargidæ .. .. .	5831	Senescenza .. .. .	0211
Podophthalma .. .. .	2631	Senso, Organi di .. .. .	0207
Polychæta .. .. .	1800	— — — Funzione degli .. .. .	0211
Polyzoa .. .. .	2000	Sessi, Produzione dei .. .. .	0211
Porifera .. .. .	0600	Sessiliventres .. .. .	4631
Primates .. .. .	6031	Sessuali, Rapporti .. .. .	0219
Prochordata .. .. .	5000	Simbiosi .. .. .	0219
Procolophonia .. .. .	5631	Siphonaptera .. .. .	3600
Proctotrupidæ .. .. .	4631	Sircenia .. .. .	6031
Proganosauria .. .. .	5631	Siricidæ .. .. .	4631
Proporzioni, Variazioni di .. .. .	0223	Sociali, Rapporti .. .. .	0219
Prosobranchiata .. .. .	2231	Società, Resoconti di .. .. .	0020
Protomyxa .. .. .	0431	Solifugæ .. .. .	3031
Protezione .. .. .	0219	Suoni, Produzione di .. .. .	0219
Protosauria .. .. .	5631	Spermatogenesi .. .. .	0215
Prototracheata .. .. .	3200	Spermatozoidi .. .. .	0215
Protozoa .. .. .	0400	Splegide .. .. .	4631
Pselaphognatha .. .. .	3431	Spongida .. .. .	0600
Pseudoscorpiones .. .. .	3031	Sporozoa .. .. .	0431
Psicologia .. .. .	0219	Steatornis .. .. .	5831
Psittaci .. .. .	5831	Steganopodes .. .. .	5831
Psocidæ .. .. .	3831	Stegocephala .. .. .	5631
Psyllidæ .. .. .	4031	Stephanidæ .. .. .	4631
Pterocletes .. .. .	5831	Stercornithes .. .. .	5831
Ptenoglossa .. .. .	2231	Stomatopoda .. .. .	2631
Pteropoda .. .. .	2231	Storia .. .. .	0010
Pterosauria .. .. .	5631	Strepsiptera .. .. .	4800
Pulmonata .. .. .	2231	Striges .. .. .	5831
Pygopodes .. .. .	5831	Stromatoporidæ .. .. .	0831
Pythonomorpha .. .. .	5631	Struthionies .. .. .	5831
Raccolte .. .. .	0030	Stylommatophora .. .. .	2231
Rachiglossa .. .. .	2231	Subungulata .. .. .	6031
Radiolaria .. .. .	0431	Sviluppo .. .. .	0215
Rassomiglianze .. .. .	0219	— — — Variazioni di .. .. .	0223
Reptilia .. .. .	5600	Symphyla .. .. .	3431
Respirazione .. .. .	0211	Tænioglossa .. .. .	2231
— Organi della .. .. .	0207	Tavole .. .. .	0030
Rhœn .. .. .	5831	Tardigrada .. .. .	2800
Rhipidoglossa .. .. .	2231	Tassonomia generale .. .. .	0231
Rhriptoglossa .. .. .	5631	Tecnica .. .. .	0090
Rhizopoda .. .. .	0431	Tectibranchiata .. .. .	2231
Rhopalocera .. .. .	4431		

Tegumento .. .. .	0207	Tubinares .. .. .	5831
Telegonia .. .. .	0223	Tubulifera .. .. .	4631
Teleostei .. .. .	5431	Tunicata .. .. .	5000
Teleostomi .. .. .	5431	Turbellaria .. .. .	1231
Tenthredinidæ .. .. .	4631	Ungulata .. .. .	6031
Teratologiche, Variazioni .. .. .	0223	Uovo .. .. .	0215
Termitidæ .. .. .	3831	Urodela .. .. .	5631
Tetractinellida .. .. .	0631	Utilità .. .. .	0060
Thoracostraca .. .. .	2631	Variazione .. .. .	0223
Thysanoptera .. .. .	3600	Vertebrata .. .. .	5200
Thysanura .. .. .	3631	Vespidæ .. .. .	4631
Tillodontia .. .. .	6031	Vestigio, Organi in .. .. .	0207
Toxoglossa .. .. .	2231	Voce .. .. .	0219
Trattati generali .. .. .	0030	Xiphosura .. .. .	2800
Trepostomata .. .. .	2031	Zoantharia .. .. .	0831
Trematoda .. .. .	1231	Zoologia comprensiva .. .. .	0000-0231
Trichoplax .. .. .	1231	— geografica .. .. .	0227
Trichoptera .. .. .	3800	— topografica .. .. .	0227
Trigonalidæ .. .. .	4631	Zygodactylæ .. .. .	5831
Trilobita .. .. .	2800		

# I. COMPREHENSIVE ZOOLOGY

ARRANGED BY

D. SHARP

This section includes works that deal with more than one branch of Zoology, or that are of general interest to Zoologists. It is, therefore, not complete in itself as regards any one subject included in it. The special records complete each subject. Many memoirs included in the special records are repeated in this division.

## CONTENTS

	PAGE
I. TITLES .. .. .	4
II. SUBJECT-INDEX:—	
Hyperzoology :—	
Philosophical .. .. .	43
Historical=0000 :	
History=0010 .. .. .	43
Biography, Obituary notices .. .. .	44
Periodicals, Reports, Congresses=0020 .. .. .	45
General Treatises, Text-books=0030 .. .. .	45
Bibliography=0032 .. .. .	45
Addresses, Lectures, &c.=0040 .. .. .	46
Pedagogy=0050 .. .. .	46
Institutions, Museums, Economic=0060 .. .. .	47
Nomenclature=0070 .. .. .	48
Methods, Technique=0090 .. .. .	48

	PAGE
Morphology=0207—	
General .. .. .	49
Histology .. .. .	49
Tegument and special glands .. .. .	50
Skeleton .. .. .	50
Nervous system, Sense-organs .. .. .	50
Myology .. .. .	50
Alimentary system, Blood .. .. .	51
Respiratory system.. .. .	51
Physiology=0211—	
General .. .. .	51
Cytological. Protoplasm and cell .. .. .	51
Sex .. .. .	51
Parthenogenesis .. .. .	52
Metabolic. Metamorphosis .. .. .	52
Function .. .. .	52
Environment, Adaptation .. .. .	52
Regeneration .. .. .	53
Senescence, Death .. .. .	53
Chemical .. .. .	53
Development=0215—	
General .. .. .	54
Ovum, oogenesis .. .. .	54
Spermatozoon, spermatogenesis .. .. .	54
Embryology. Organogeny .. .. .	55
Fertilization . .. .	55
Experimental embryology .. .. .	56
Ethclogy=0219—	
General .. .. .	56
Phenology .. .. .	56
Parental .. .. .	56
Sexual .. .. .	56
Social .. .. .	56
Parasitism .. .. .	56
Voice. . . . .	57
Habitat .. .. .	57
Speleology .. .. .	57
Movement .. .. .	57
Psychology .. .. .	57
Colour. Defensive processes .. .. .	58
Actiology and Variation=0223—	
General .. .. .	58
Variation .. .. .	58
Mutation .. .. .	58
Teratology .. .. .	58
Heredity—	
General .. .. .	59
Mendelian .. .. .	59
Special cases .. .. .	59



	PAGE
Hybrids. Telegony .. .. .	60
Evolution. Origin of species .. .. .	60
Geography=0227—	
General .. .. .	61
Expeditions. Travels .. .. .	61
Faunae—	
Palaeartic .. .. .	62
Europe and Mediterranean .. .. .	62
Asia .. .. .	63
Asiatic Archipelago .. .. .	63
Africa .. .. .	63
North America .. .. .	63
South America .. .. .	64
Arctic .. .. .	64
Antarctic .. .. .	64
Oceanic and insular .. .. .	64
Taxonomy=0231 .. .. .	64

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*N.B.—Titles in brackets have appeared previously in the Zoological Record.*

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bleme in der Biologie. Vortrag; Reinke,  
Johannes.

Das Problem des Lebens; Hartmann,  
Eduard von.

Notions générales de biologie et de  
plasmogénie comparées; Herrera.

Théories en zoologie; Kemna.

Preformation and epigenesis; Hodg-  
kin.

Evolution récente de nos connaissances  
sur la cellule; Drzewina.

La radioactivité et la vie; Dubois, 1.

De Lamarck à Darwin; Landrieu.

(Giard, 4; Controverses transfor-  
mistes.)

## History. Biography.

0010

### History.

Les idées d'évolution dans l'antiquité  
et dans le moyen âge; Houssay, 1 & 2.

Animals of literature and superstition;  
Santini.

Die altenglischen Namen der Insekten,  
Spinnen- und Krustentiere; Zandt  
Cortelyou.

Zur Geschichte und Kritik der biolo-  
gisch-historischen Literatur. II. Joh.  
Spix. III. Ose. Schmidt; Burckhardt.

Erasmus Darwin, letters of; Dean.

Rambur's views on the nature of  
species; Jordan, 1.

Les premiers rapports de Latreille  
avec le Muséum, d'après une lettre de  
Lamarck; Nussac.

Rafinesque, C. S., on evolution;  
Stejneger, 2.

Darwin, dopo cinquanta anni; Mante-  
gazza.

Le second voyage et la mort au  
Mexique de Louis Choris, peintre et  
naturaliste, correspondant du Muséum  
(1827-1828); Hamy, 4.

Lettre de Frédéric Cuvier à Richard  
Harlan; Hamy, 2.

Diequemare jugé par Cuvier (1805).  
Note pour servir à l'histoire des recher-  
ches zoologiques dans la Manche;  
Hamy, 3.

## II.—SUBJECT INDEX.

For full reference and wider in-  
formation go to Titles.

### HYPERZOOLOGY.

#### Philosophical.

0000

Critique de l'interprétation psycholo-  
gique des phénomènes de la nature.  
Observations de MM. Artault, Giard,  
Perrier, Piéron, Oppenheimer; Kostyleff.

L'évolution des Sciences biologiques;  
Giard.

Énigmes de l'Univers (trad. frane.);  
Haeckel, 2.

Les problèmes de la Biologie; Delage,  
3.

Autobiographie inédite de Valmont de Bomare; **Hamy, 1.**

Sir John Mandeville; **Eastman, 1.**

Unpublished letters of Alexander Wilson and John Abbot; **Stone, 2.**

Letters of John James Audubon and Spencer F. Baird; **Deane.**

(**Camerano, 5.** Antonio Vallisnieri e i moderni concetti intorno ai viventi).

Storia della Zoologia in Italia, Giuseppe Gautieri; **Camerano, 2.**

Storia della Zoologia in Italia nella prima metà del XIX secolo. I manoscritti di F. A. Bonelli; **Camerano, 3.**

*Biography* (incl. obituary notes).

Anthony, R. Titres et travaux scientifiques de; **Anthony.**

Baer, K. E. von; **Kusnezow, (Russ.), 1.**

Baird, Spencer Fullerton; **Cockerell, 4.**

Bazetta, Giulio; **Camerano, 1.**

Beale, Lionel Smith; London, J. R. *microsc. Soc.* 1906 (277-279).

Blanford, W. T.; **Holland.**

Bunge, Hommage funèbre au; **Blanchard, 1.**

Darwin, Charles; **Bölsche.**

Du Roselle, notice biographique du; **Hautefeuille.**

Dzierzon, Dr. Johann; **Krancher.**

Fatio, Victor; **Camerano, 4.**

Flemming, Graf von Walther; **Spee.**

Flower, Sir William; **Green; Lydekker.**

Gegenbaur, Carl, Festbericht über die Enthüllung der Carl Gegenbaur-Büste von Prof. C. Seffner am 12. Mai 1906 in Heidelberg; portrait; **Furbringer.**

Gegenbaur, Carlo. Commemorazione; **Todaro.**

Gegenbaur, Carlo; **Maggi, 1.**

Goldfuss, Otto; **Taschenberg, 2; Wust.**

Gravier, Charles, notice sur les titres et les travaux scientifiques de; **Gravier, 2.**

Haeckel als Biologe und die Wahrheit; **Brass.**

Hilgendorf, Franz; **Weltner.**

Hutton, F. W. obituary; Hutton.

Jacob Theodor Klein's Aufzeichnungen über sein Leben; **Klein.**

Kölliker, Albert von, Nachruf; **Hanstein, 1.**

Kölliker, Albert von, Zum Gedächtnis; **Ehlers.**

Kölliker, Alberto von; **Mosso.**

Kölliker, Rudolph Albert von, M.D.; **Stirling.**

Koelliker Rudolf Albert von; **Taschenberg, 1.**

Koelliker, Albert v., zum Gedächtnis; **Waldeyer.**

Kornhuber, Dr. Andrés, † 1824-1905. (Ungarisch); **Ortvay.**

Loisel, G., titres et travaux scientifiques de; **Loisel, 13.**

Ménégaux, A., titres et travaux scientifiques de; **Ménégaux.**

†Michailovskij, M. N.; **Skorikov, (russ.).**

Nehring, Alfred; **Rörig, 1.**

Nehring, Alfred; **Satunin, 2.**

Ašanin, Vasiljč Fedorovič (Russ.); **Vasinevskij.**

Ovsjannikov, F. V., obituary; **Grimm; Tur.**

Perejaslavceva, S. M. †; Mitrofanova.

Philippi, Dr. Rudolf Amandus; **Ochsenius.**

Roger, Le Dr. Joseph, correspondant du Muséum (1875-1905); **Hamy, 5.**

Rohweder, Joachim; **Rabe.**

Rossmässler, Emil Adolf, als Biologe und Systematiker. Zur Erinnerung an die 100jährige Wiederkehr seines Geburtstages; **Boettger.**

Rossmässler, zur Erinnerung an (Russ.); **Mamontov.**

Schaudinn, Fritz; **Calkins, 2.**

Schaudinn, Fritz; **Entz.**

Schaudinn, Fritz †; **Hartmann und Prowazek.**

Schaudinn, Fritz † Nachruf; **Heider, 3.**

Schandinn, Fritz †; **Lowenthal.**

Schaudinn, Fritz; **Lühe.**

Schaudinn, Fritz; **Mesnil.**

Schaudinn, Fritz, mit Porträt und Verzeichniss von Arbeiten; **Winter**.

Schaudinn, Fritz†; **Wolff**.

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Stossich, Prof. Michele; **Parona**.

Weldon, Walter Frank Raphael; *Biometrika* **5** (1-52) 5 plates.

Weldon, Professor Walter Frank Raphael, Nekrolog; **Henkinson**.

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Report of the Director of the Zoological park; **Hornaday**.

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Fisheries, British; **Johnstone**.

Report of the Commissioner of fisheries, 1905; **Bowers**.

Biologische Station der Fischzuchtanstalt Nikolisk (Russ.); **Doppelmaier**.

Bericht über die Thätigkeit der Zoologischen Station in Villa-Franca während der Jahre 1903-1904. (Russ.); **Korotnev**.

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Bericht des Sekretärs über die Thätigkeit der Kaiserlichen St. Petersburgers Naturforscher-Gesellschaft für d. J. 1905. (Russ.); **Palladin**.

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British Association, Zoology; **Ashworth**.

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Lehrbuch der Zoologie für höhere Lehranstalten . . . . Unter besonderer Berücksichtigung biologischer Verhältnisse bearb. 16. Aufl; **Schmeil**, **1**.

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Klassen und Ordnungen des Tier-Reichs; **Bronn**.

Das Tierreich; **Schulze**.

Praktische Tierzucht and Züchtungsbiologie; **Müller**, Robert.

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Outlines of Zoology; **Thomson**.

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Revue annuelle des thèses de Zoologie, 1906; **Pérez, 2.**

Revue annuelle de Zoologie; **Caullery & Mesnil.**

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Bibliographia Zoologica; **Field.**

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Encyclopédie méthodique, dates of publication of parts of; **Sherborn & Woodward, 1.**

Dates of the "Voyage autour du monde sur la Coquille"; **Sherborn & Woodward, 2.**

Über zwei alte, verlorene ungarische zoologische Bücher (ungarisch); **Entz, Géza, 2.**

#### Addresses, Lectures, etc. 0040

Methoden zoologischer Forschung; **Hertwig, 1.**

†Fossils, conditions of fossilisation; **Hartzell.**

La symbiose évolutive et la prédestination cytologique; **Abric.**

Die Grundlagen des Gedächtnisses, der Vererbung und der Instinkte; **Alsberg.**

Haeckels Weltanschauung, naturwissenschaftlich kritisch beleuchtet; **Dennert.**

Die Ergebnisse der Ultramikroskopie in Bezug auf die Biologie; **Berg.**

Rapports et contrastes biologiques entre les animaux et les végétaux; **Bohn, 1.**

Variation et évolution; **Bohn, 2.**

Grundzüge des tierischen Organismus und Lebens; **Entz, Géza, 1.**

L'océanographie et les pêches maritimes; **Cligny.**

Le régime frugivore et nos idées originelles; **Houssay, 3.**

Muscular activity and beauty of form; **Kidd.**

Animal coloration, utility; **Sykes.**

Streifzüge durch die Tierwelt; **Zell.**

Weltanschauung naturgeschichtliche (Russ.); **Zograff.**

The education of a curator, Presidential address; **Hoyle, 1.**

Presidential address; **Lankester, 1 & 2.**

Presidential address; **Lister.**

Protozoology; **Minchin.**

Address of the president: A plea for the genus; **Banks.**

Deutsche—insbesondere hessische—Tiernamen; **Schuster.**

Ergänzungen zu „Deutsche—insbesondere hessische—Tiernamen“ und zu dem „Nachtrag“; **Lauer, 1.**

#### Pedagogy. 0050

Der Unterricht in der Natur als Mittel für grundlegende Anschauung; **John.**

L'enseignement des Sciences naturelles; **Bernard.**

Zeichenskizzen zum naturkundlichen Unterricht nach biologischen Grundsätzen; **Engleder.**

Die technische Ausbildung der Zoologen; **Freund.**

Bericht über den Unterricht in der Zoologie an den neunklassigen höheren Lehranstalten; **Gutzmer**.

Sur la nécessité de réforme de l'enseignement d'histoire naturelle dans les lycées polonais (Polish); **Lomnicki**.

Der biologische Unterricht an der höheren Schulen; **Wasmann, 2**.

Die Methodik im zoologischen Unterricht an Universitäten; **Dahl, 2**.

Frage des biologischen Schulunterrichts; **Zacharias, 5**.

Plankton als Gegenstand eines zeitgemässen biologischen Schulunterrichts; **Zacharias, 3**.

Insektensammlungen für Mittelschulen (ungarisch); **Szilády**.

Abbildungen und Beschreibungen der gewöhnlichen Thiere. Für den ersten Unterricht in der Zoologie. 2. Aufl. (Norw.); **Thor**.

Die Behandlung der niederen Tiere in in O III der Realanstalten. Tl. 1: Die Urtiere; **Kalide**.

Sorgdrager, Anatomische Modelle; **Illig**.

Zoologische Wandtafeln. Taf. 5: Ringelnatter und Kreuzotter. 6: Korallen. 12: Bandwürmer; **Schmeil, 2**.

Anatomische Wandtafeln für den naturgeschichtlichen Unterricht an höheren Lehranstalten; **Frenkel**.

Zoologische Präparate für Schulzwecke; **Werner, 2**.

School museum; **Latter, 2**.

Zoologische Schulsammlungen; **Hanstein, 2**.

Sur les collections d'histoire naturelle dans nos collèges (Polish); **Friedberg, Wilhelm**.

Bestimmungsübungen und Exkursionen. Zur Einführung der Lehramtskandidaten in die Kenntnis der einheimischen Fauna; **Schuberg**.

Ueber die Verwendung von microphotographischen Lichtbildern beim zoologischen und anatomischen Unterricht; **Stempell**.

**Institutions, Museums, Economic, etc.** 0060

Die Aufgabe der Museen; **Wandolleck**.

Die Aufgabe der Museen, Erweiterung an B. Wandolleck; **Lehmann, 1**.

Zoologische Gärten und naturhistorische Museen; **Pleyel**.

The inductive method in installation; **Lowe**.

Laboratoires maritimes; **Francotte**.

Musee océanographique de Monaco; **Richard, 1**.

Marine station, Murman coast; **Awerintzew**.

Biologische Laboratorien an Binnenseen und Teichen; **Zacharias, 2**.

Laboratorio galleggiante per la Biologia marina; **Zacharias, 8**.

Die biologische Süswasserstation der Kaiserlichen Naturforscher-Gesellschaft zu St. Petersburg (Russ.); **Borodin**.

La station zoologique de Naples. Pourquoi la France y doit avoir une place?; **Caullery, 3**.

The Portobello marine fish-hatchery and biological station; **Thomson**.

Murmansche biologische Station (Russ.); **Derjugin, 2**.

Station entomologique de l'Université de Rennes; **Houlbert**.

La Station zoologique de Cette; **Calvet**.

Stations zoologiques méditerranéennes de Cette et de Banyuls; **Justice**.

Entstehungsgeschichte und weitere Entwicklung des Zoologischen Instituts der Universität Marburg; **Korschelt, 5**.

Zoological institute, Breslau; **Hoyle, 2**.

Zur Geschichte des Grossh. Bad. Naturalienkabinetts in Karlsruhe (1751-1878); **May**.

Le Museum d'histoire naturelle de New York; **Halet**.

Das Reichs-Museum für Naturgeschichte in Leiden und seine Umgestaltung in ein Ideal-Museum; **Finsch**.

The Bristol Museum; **Barker; Bolton**.

Zoological gardens, museums and aquariums, report on some; **Flower**.

Einige biologische Gruppen im Museum zu Bergen. (Norw.); **Grieg**.

Exhibited specimens, Natal Museum; **Warren**.

Cartes pour collections d'animaux ; **Schaeck**.

Types du Prodrome de Paléontologie stratigraphique universelle de d'Orbigny. Ann. Paléont., Paris, 1, 1906, (97-100, 165-172, 193-196, av. pl. ; et pag. spéc., 1-16).

Die Feuersgefahr in den naturhistorischen Museen ; **Römer**.

Ein Gang durch den Zoologischen Garten in Basel ; **Lauer**, 2.

Les idées des anciens et des modernes sur l'utilisation scientifique des ménageries ; **Loisel**, 6.

Projet de réorganisation de la ménagerie du Muséum ; **Loisel**, 5.

Inventaire des animaux des ménageries au 22 mai 1906. Bul. Muséum, Paris, 12, 1906, (233-243).

Dispositions réglementaires relatives aux ménageries du Muséum, approuvées par l'Assemblée des Professeurs, dans la séance du 1<sup>er</sup> février 1906. Bul. Muséum, Paris, 12, 1906, (244-245).

Die kaiserliche biologische Anstalt für Land- und Forstwirtschaft in Dahlem bei Steglitz ; **Aderhold**, 1.

Die Tiere im Dienste der Wissenschaft und der Heilkunde ; **Zuntz**.

Tierschutz, Tierliebhaberei und Tierkunde ; **Werner**, 1.

Des Landwirtes Freunde und Feinde unter den freilebenden Tieren ; **Rörig**, 2.

Economic zoology ; **Barrows**.

Einführung in das Studium der medizinischen Zoologie (Russ.) ; **Repjachov**.

Die Tiere als Feinde der Kultur ; **Eckstein**, 1.

Nutzen u. Schaden der Thiere ; **Eckstein**, 2.

Die Krankheiten und Beschädigungen unserer landwirtschaftlichen Kulturpflanzen ; **Kirchner**.

Volcanic action, effect of on life ; **Lo Bianco**, 1 & 2.

Verzeichnis der Thiere, welche den Runkelrüben im europäischen Russland und in Westeuropa Schaden zufügen (Russ.) ; **Vasiljev**.

National control of introduced insect pests ; **Sanderson**.

Le repeuplement des eaux douces ; **Roule**.

## Nomenclature.

0070

Report of Committee on nomenclature. Washington, D.C., Bull., U. S. Dept. Agric., Bur. Ent., No. 60, 1906, (25-28).

Different kinds of types ; **Fernald**.

Subgenera, and other matters ; **Allen**, 2.

Designation of generic types ; **Stiles**, 1 & 2.

The nomenclature of types in natural history ; **Schuchert** and **Buckman**, 1 & 2.

Fixing types of genera ; **Allen**, 5 ; **Bather** ; **Stone**, 1.

W & K use of ; **Cockerell**, 5.

Publication de fiches phototypiques représentant les types originaux des espèces décrites par les anciens auteurs ; **Joubin**.

## Technique, Methods.

0090

Bemerkungen aus der zoologischen Praxis (Russ.) ; **Koževnikov**.

Rekonstruktion, die Methoden der ; **Peter**, 2.

Das Sammeln von Reptilien, Batrachiern und Fischen ; **Günther**, G., 2.

Appareil pour la recherche et la récolte rapide du plankton ; **Viguer**.

Das Sammeln und Beobachten von Plankton ; **Apstein**, 1.

Das Sammeln und Konservieren wirbelloser Seetiere ; **Plate**, 2.

A new way of mounting natural history specimens and preparations for demonstration and museum purposes ; **Nishikawa**.

Kombinierte, plastische Leimmasse und ihre Anwendung bei der Verfertigung von Knochenpräparaten ; **Skoda**.

Somatometria ; **Broglio** ; **Helguero**.

Modificazioni apportate al somatometro a compasso ; **Andres**.

Tecnica delle sezioni microscopiche ; **Vastarini-Cresi**.

Ueber eine neue Methode der embryonalen Transplantation ; **Spemann**.

Ein Desinfektionskasten und ein Transportgefäß für naturwissenschaftliche Museen; **Auerbach**.

Ritrovare la posizione di uno punti interessanti di preparati microscopici; **Curreri**.

Méthode des disques rotatifs et la technique microscopique; **Lebrun**.

La fotossilina come mezzo di inclusione; **Vecchi**.

Technique, tissu osseux; **Retterer, 2**.

Metodo di reazione al cloruro d'oro per le fibre e le espansioni nervose periferiche; **Ruffini, 2**.

Modification à la méthode de coloration de Romanowsky-Giemsä; **Billet**.

Chemische und biologische Bedeutung der Osmiumschwarzung; **Neubauer**.

Eine Modifikation der Härtung mit Formaldehyd unter Beseitigung des Geruches desselben; **Neumayer**.

Deux liquides fixateurs isotoniques avec l'eau de mer; **Dekhuyzen**.

Fixation à l'état d'extension des animalcules contractiles; **Beauchamp**.

Fixierung, Einfluss der auf das Volumen der Organe; **Stoeltzner**.

Un nuovo metodo per la colorazione specifica delle Mastzellen; **Federici**.

Metodo Pollacci, microchimica del fosforo; **Comes, 1**.

Ricerca microchimica del fosforo; **Arcangeli**.

Metodo di G. Pollacci, microchimica del fosforo nei tessuti; **Comes, 2**.

Méthode de Apathy; **Nabias, 1**.

Action de l'hydroxylamine sur le virage de l'or en histologie; **Nabias, 2**.

Nouvel appareil de microphotographie; **Pinoy**.

Photographieren lebender Wassertiere; **Köhler**.

## MORPHOLOGY. 0207

### General.

Revue annuelle d'Anatomie; **Laguesse**.

Jahresberichte, Anatomie und Entwicklungsgeschichte, 1904; **Schwalbe, G., 1**.

(N-9720 q)

Jahresberichte über die Fortschritte der Anatomie und Entwicklungsgeschichte; **Schwalbe, G.** and others.

Gesamtregister zu Jahresberichten der Anatomie und Entwicklungsgeschichte, 1892-1901; **Schwalbe, Ernst**.

Anatomical literature, America, 1902-1904; **Warren, John**.

Anatomische, histologische und embryologische Literatur Russlands, 1904-1906; **Stieda**.

[**Galenus, Claudius**.] Sieben Bücher Anatomie des Galen, *ἀνατομικῶν ἐγχειρήσεων βιβλίον Θ-ΙΕ*.

Haeckel's Generellen Morphologie condensed; **Haeckel, 1**.

Zoologie pratique basée sur la dissection des animaux les plus répandus; **Jammes**.

Morphology and Physiology, causality in Morphology; **Roux & Braus**.

Organisation de la substance vivante; **Fauré-Frémiet**.

The germinal layers, importance, recent views; **Jenkinson, 1**.

Abriss der Keimblätterlehre in der Vergangenheit und der Gegenwart (Russ.); **Kuschakewitsch**.

Die anatomischen Namen, ihre Ableitung und Aussprache; **Trlepel**.

Handbuch der vergleichenden Anatomie der Haustiere; **Ellenberger and Baum**.

Handbuch der Anatomie der Tiere für Künstler; **Ellenberger, Baum, und Dittrich**.

Anatomisches Wäldchen. Beitrag zur Vervollständigung der anatomischen Lehrmittel; **Rauber**.

(**Delage, 4**; Anatomie comparée et bases de la morphologie.)

L'Anatomia comparata secondo Vogt e Yung; **Maggi, 2**.

Homologisierung des Mundes des Amphioxus und die primitive Leibesgliederung der Wirbeltiere; **Wijhe**.

Teratology *vide* Aetiology, p. 58.

### Histology.

Photomikroskop für ultraviolette Strahlen und seine Bedeutung für die

histologische Untersuchung, insbesondere der Hautgewebe; **Dieck**.

Die tierische Zelle; **Gunther, G., 1.**  
Zelle u. Gewebe; **Hertwig, O., 2.**

Cell communications; **Shearer.**

Les vacuolides, constitution intime du protoplasma des Protozoaires; **Dubois, 3.**

Nomenclature des éléments protoplasmiques; **Künstler, 1.**

Zelle und Zellkern (Russ.); **Cholodkovsky.**

Noyaux unis- et plurisphérolaires; **Künstler, 2.**

Nouvelle espèce cellulaire dans les glandes de Lieberkühn; **Ciaccio.**

Zellformen des lockeren Bindegewebes; **Maximow.**

Cellules rhagiocrines libres du liquide des diversés séreuses; **Renaut et Dubreuil.**

Homologisierung des Binnennetzes der Ganglienzellen mit den Chromidien (= Mitochondria, etc.) der Geschlechtszellen; **Popoff.**

La structure fine du système nerveux; **Nageotte.**

Ueber Spinalganglienzellen und Markscheid. Zugleich ein Versuch die Wirkungsweise der Osmiumsäure zu analysieren; **Sjövall, 2.**

Noyau de la cellule nerveuse dans la méthode à l'argent réduit; **Lache.**

Etwas über Neurilemmkerne. (Zum „Vorschlag“ des Herrn Prof. O. Schultze.); **Leontowitsch.**

Vakuolisierung der Ganglienzellen; **Mencel.**

Per la colorazione delle cellule cromofile dell' Hypophysis cerebri; **Cagnetto.**

Struttura della cellula nervosa dei gangli spinali; **Cesa-Bianchi.**

Neurone und Neuronenbahnen; **Schiefferdecker.**

L'origine des nucléoles vrais ou plasmosomes des cellules nerveuses; **Havet.**

Espansioni nervose periferiche; **Ruffini, 1.**

Nature pathologique des canalicules de Holmgren des cellules nerveuses; **Legendre.**

Struttura delle placche motrici e dei fusi neuromuscolari; **Gemelli.**

Guaina subsidaria von Ruffini, Nervenfasern; **Retzius.**

### Tegument and Special Glands.

Materialien zur vergleichenden Histologie der Hautdecke der Wirbeltiere; **Nusbaum und Kulczycki.**

Beitrag zur Kenntnis des Pigmentes; **Vörner.**

Morphologie der Nebenniere iii (Russ.); **Landau.**

Thymus-Elemente, Natur der; **Stöhr.**

### Skeleton.

Les trous de la symphyse du menton; **Dubreuil-Chambardel.**

Economia di sostanza, ossa cave; **Enriques.**

Ueber die Mundbildung der Wirbeltiere; **Jaekel.**

Technique pour l'étude du tissu osseux rougi par l'alimentation garancée; **Retterer, 2.**

Colorations intra-vitales et post-vitales du tissu osseux; **Retterer, 3.**

Adaptive modifications of the limb skeleton in aquatic reptiles and mammals; **Osburn.**

Demonstration embryonaler Skelette; **Moser.**

Nature et origine de fibres de Sharpey; **Retterer, 1.**

Torsion of the crustacean limb; **Herrick.**

### Nervous system. Sense organs.

*Vide etiam* Histology.

Elementaren Bau des Nervensystems; **Pflüger.**

Augen der Tiefseetiere; **Rabes, 1.**

Eyes of the blind vertebrates; **Payne.**

Ear, labyrinth; **Gray.**

### Myology.

Nomenclature myologique; **Chaine.**

Den feineren Bau der contractilen Substanz (Russ.); **Schlater.**



Das Studium der Gelenke und Muskeln in gegenwärtiger Zeit (Russ.); **Leshaft**.

### Alimentary system. Blood.

Villosités intestinales; **Bujard**.

Valeur cellulaire des hématies des Mammifères et de l'origine de leurs parties constituantes; **Retterer, 4**.

### Respiratory system.

Die Homologie der Anammierkiemen; **Greil**.

## PHYSIOLOGY. 0211

### General.

Revue annuelle de physiologie; **Fredericq, Léon, 1**.

Das Gesetz von der Erhaltung der Energie in seiner Anwendung auf den tierischen Organismus; **Caspari**.

The dynamics of living matter; **Loeb, 1**.

(**Bohn, 10**. Sur le parallélisme entre le phototropisme et la parthénogenèse artificielle.)

Pathologie et classification zoologique; **Galli-Valerio, 1**.

Croissance de la cellule artificielle; **Leduc**.

Crystals and organisms; **Lehman, 2**; also **Przibram**.

Physiologie comparée. Etude du liquide périviscéral des Oursins. Éléments figurés. Phénomène de la coagulation et son rôle biologique; **Henri**.

Animal and plant, distinctions; **Quayle**.

Studies on the germ cells of aphids; **Stevens, 1, 2 and 4**.

(**Calkins, 3**. Life history of Protozoa. IV. Death of the A series. Conclusions.)

### Cytological. Protoplasm and Cell.

Zellkern und Zellplasma, selbständige systeme?; **Schucking**.

Karyokinesis, Bipolar interpretation of; **Gallardo**.

Les explications physiques du champ de force de la cellule en cinèse; **Hartog**.

(x-9720 q)

Mitotic process, *Mammalia*; **Moore and Walker**.

Ursache der Reifeteilungen und den Charakter der Polkörper; **Kuckuck, 1**.

Chromosomes, aberrant, behaviour, terminology; **Montgomery, 1**.

Chromosome reduction (in Slavonian); **Gjurašin**.

Rapporti fra nucleolo, nucleo, e granulazione del protoplasma; **Ferrata**.

Insect - parthenogenesis, cytology; **Hewitt**.

Effets généraux produits par les rayons de Röntgen sur les cellules vivantes d'après les résultats observés jusqu'à présent dans l'épithélium séminal; **Regaud et Blanc, 1**.

### Sex.

Weitere Untersuchungen über das Sexualitätsproblem; **Hertwig, 2**.

Indépendance des deux problèmes de la spécificité sexuelle des ovules et de la production des sexes à volonté. Théorie physique de la sexualité; **Bard**.

Le caractère physiologique du sexe est l'état électrique des colloïdes des cellules sexuelles; **Kuckuck, 2**.

Déterminisme sexuel, et la procréation des sexes; **Loisel, 2**.

Production of sex, Hertwig's views; **Wilson, 2**.

Polyembryony and determination of sex; **Howard**.

The sexual differences of the chromosome-groups in Hemiptera, with some considerations on the determination and inheritance of sex; **Wilson, 3**.

Wodurch erzielen wir bei Menschen und Tieren willkürlich männliches und weibliches Geschlecht; **Zappold**.

L'individu femelle, caractéristique générale; **Loisel, 4**.

Geschlechtsdimorphismus bei Tieren und Haustieren. Aus d. Ital. übers.; **Marchi**.

Die Geschlechter der Tiere. Tl 3: Der Schädel; **Mobius, P. J.**

(**Kellogg, 5**. Influence of the primary reproductive organs on the secondary sexual characters.)

Hermaphroditismen. [Neuere Anschauungen über den Hermaphroditismus]; **Bonnevie, 3.**

### Parthenogenesis.

Parthenogenesis, nature of; **Punnett.**

Cytological phenomena of parthenogenesis; **Hewitt.**

Variation in parthenogenetic insects; **Kellogg, 4.**

Artificial parthenogenesis *vide* Development p. 54.

### Metabolic. Metamorphosis.

Der morphologische Metabolismus des lebenden Protoplasmas; **Růžicka.**

Rinnovamento dell' organismo studiato negli animali ibernanti; **Monti, 1.**

Metabolism in unicellular organisms; **Calkins.**

Stoffwechsel und Herz; **Hesse, 1.**

Ueber die Beziehungen der Wanderzellen zu den Zellbrücken, Zelllücken und Trophospongien; **Reinke, 1.**

Genesi endoteliale e la natura degenerativa dei globuli bianchi monoculeati; **Corti.**

Processus phagocytaires pendant la métamorphose des Batraciens anoures et des Insectes; **Mercier.**

Fonctions de nutrition, des processus d'ontogenèse, de régénération et de métamorphose, chez les larves d'*Alytes*, en l'absence d'une grande étendue de la moelle; **Wintrebert, 1.**

La métamorphose de *Salamandra maculosa* en dehors de la moelle et des ganglions spinaux; **Wintrebert, 2.**

Indépendance de la métamorphose vis-à-vis du système nerveux chez les Batraciens; **Wintrebert, 3.**

Generationswechsel, Metamorphose und direkte Entwicklung; **Wedekind, 1 and 2.**

### Function.

Theorie der Richtungsbewegungen niederer schwimmender Organismen; **Ostwald.**

La vision dans les grandes profondeurs de la mer; **Caullery, 2.**

Experiments on the developing ear vesicle of the tadpole with relation to equilibration; **Streeter.**

Nerfs du cœur des Invertébrés; **Carlson, 1 and 2.**

(**Parker, 2;** Ctenophores, theories of ciliary metachronism.)

Croissance de l'homme et des êtres vivants, en général; **Henry et Bastien.**

### Environment. Adaptation.

Ueber Konvergenzerscheinungen im Tierreich; **Gerhardt.**

Konvergenzerscheinungen im Tierreich; **Schmidt, (Russ), 1.**

Volant adaptation in vertebrates; **Lull.**

Maintien du milieu marin originel, comme milieu vital chez les Vertébrés; **Quinton, 3.**

Loi de constance marine originelle; **Quinton, 1.**

Loi générale de constance originelle du milieu vital des cellules; **Quinton, 2.**

Das Aufleben aus der Erstarrung; **Müller, W.**

Blanchissement hivernal des poils et des plumes; **Metchnikoff, 2.**

Modifications de constitution de la substance vivante consécutives aux variations du milieu; **Künstler et Gineste, 1.**

Sur les courbures dues à la lumière; **Bohn, 1.**

Le rythme des marées et la matière vivante; **Bohn, 9.**

Beobachtungen auf alpinen Höhen zur kalten Jahreszeit; **Ammann.**

Bedeutung des Pigmentes für die physiologische Wirkung der Lichtstrahlen Vergleichend physiologische Untersuchungen; **Hertel.**

The influence of light and heat on the movement of melanophore pigment, especially in lizards; **Parker, 1.**

Light reactions in lower organisms; **Mast.**

**Regeneration.**

Regeneration und Transplantation im Tierreich; **Korschelt, 3** and **4**.

The physiology of regeneration; **Morgan, T. H., 3**.

Regeneration und Involution; **Barfurth, 2**.

Regenerierende Regenerate; **Driesch, 1**.

Morphogenesis, regulation; **Child, 1**.

Experimentelles und Kritisches, Regeneration; **Tornier, 2**.

Regeneration and autotomy, *Arachnida*; **Friedrich, P**.

The relation between functional regulation and form-regulation; **Child, 3**.

Germ - layers and regeneration; **Morgan, T. H., 4**.

Beziehungen des Lymphdruckes zu den Erscheinungen der Regeneration und des Wachstums; **Reinke, Fr., 2**.

Regulation. I. The significance of the different methods of regulation in *Turbellaria*; **Child, 2**.

(**Child, 7**; Studies on regulation. IV. Form-regulation in *Leptoplana*.)

(**Child, 8**; Studies on regulation. V. The relation between the central nervous system and regeneration in *Leptoplana*.)

(**Child, 9**; Studies on regulation. VI. The relation between the central nervous system and regulation in *Leptoplana*.)

(**Child, 10**; Studies on regulation. VII. Further experiments on form regulation in *Leptoplana*.)

Incomplete anterior regeneration in the absence of the brain in *Leptoplana littoralis*; **Morgan, Lilian V., 2**.

The relation between regulation and fission in *Planaria*; **Child, 4**.

Regeneration of grafted pieces of anarians; **Morgan, Lilian V., 1**.

(Regeneration in *Polychoerus caudatus*; **Stevens and Boring, 1** and **2**.)

(**Child, 6**; Form-regulation in *Cerianthus*, 9. Regulation, form, and proportion.)

(**Hahn**; Dimorphism and regeneration in *Metridium*.)

Regeneration in *Fundulus heteroclitus*; **Morrill**.

Regeneration of heteromorphic tails in posterior pieces of *Planaria simplicissima*; **Morgan, T. H., 6**.

Analysis of the phenomena of polarity in *Tubularia*; **Morgan, T. H., 8**.

Hydranth formation and polarity in *Tubularia*; **Morgan, T. H., 2**.

Polarity in *Tubularia*; **Morgan and Stevens**.

Regeneration of a heteromorphic tail, *Allolobophora foetida*; **Dimon**.

(Physiological "polarity" and electrical polarity, earthworm; **Morgan and Dimon**.)

Physiological regeneration in insects; **Kellogg, 1**.

Tissues, in regeneration of skin; **Tornier, 1**.

(**Zeleny, 2**; Compensatory regulation).

(**Zeleny, 3**; Relation of the degree of injury to the rate of regeneration.)

The regeneration of a double chela in the fiddler crab (*Gelasimus pugilator*) in place of a normal single one; **Zeleny, 4**.

Light as a factor in the regeneration of hydroids; **Goldfarb**.

Growth and regeneration of the gills in the young *Necturus*; **Eycleshymer**.

Torsion in the regeneration of the cheliped of the lobster; **Emmel**.

Regeneration peripherer Nerven; **Barfurth**.

**Senescence, Death.**

La mort naturelle dans le règne animal; **Metchnikoff, 1**.

Tod und Fortpflanzung; **Hartmann, Max**.

Das Altern (ungarisch); **Dalmady**.

Das Alter der Tiere; **Korschelt, 2** & **6**.

**Chemical.**

Jahres-Bericht über die Fortschritte der Tier-Chemie oder der physiologischen und pathologischen Chemie. Begr. v. Richard Malv. Fortges. v. R. Andreasch, M. v. Nencki, K. Spiro.

34, über das Jahr 1904. Hrsg. u. red. v. Rud. Andreasch und Karl Spiro unter Mitwirkung v. L. Blum [u. a.]. Wiesbaden (J. F. Bergmann), 1905, (v + 1244). 23 cm.

Tierische Gifte; **Faust**.

Daten zur Kenntnis der quantitativen Zusammensetzung verschiedener Körperflüssigkeiten von Seetieren (Fischen und einigen Wirbellosen); **Baglioni**.

Tierische Gifte und Arzneistoffe; **Maass**.

Lehrbuch der Intoxikationen. 2. durchweg neu bearb. Aufl. 2 Bde. Bd II: Spezieller T.; **Kobert**.

La toxicité des œufs; **Loisel**, 12.

(**Loisel**, 14; Toxicité du liquide séminal et considérations générales sur la toxicité des produits génitaux).

Sur les venins animaux (Polish); **Lemberger**.

(**Szczawinska**; Cytotoxines chez les Invertébrés.)

Substances toxiques produites par les parasites intestinaux; **Blanchard**, 2.

Phosphorous compounds; **Bensley**.

Substances fluorescentes chez quelques animaux invertébrés; **Dubois**, 2.

Kristallinische Chitosanverbindungen aus Sepienschulpen; ein Beitrag zur Kenntniss des Chitins; **Fürth** und **Russo**.

Hybrids: *vide* Aetiology.

## DEVELOPMENT. 0215

Metamorphosis, *vide* Physiology.

Regeneration; *vide* Physiology.

### General.

Lehrbuch der Entwicklungsgeschichte des Menschen und der Wirbeltiere; **Hertwig**, O., 1.

Das Wesen der Fortpflanzung. Neue Gesichtspunkte; **Koenig**.

Jahresberichte, Anatomie und Entwicklungsgeschichte, 1904; **Schwalbe**, G., 1.

Neurosyncytial development; **Gaskell**.

Parthenogenetic development, *Amphitrite*; **Scott**.

Alternation of generations in animals from a botanical standpoint; **Chamberlain**.

Der Bau der Geschlechtszellen; **Thesing**.

Beobachtungen an den Keimzellen von *Enterocænos östergreni*; **Bonnevie**, 1.

L'œuf et la genèse des organes; **Caulley**, 1.

Ein Versuch, das Binnennetz von Golgi-Kopsch bei der Spermato- und Ovogenese zu homologisieren; **Sjövall**, 1.

A reducing division in *Ascaris*; **Griggs**.

The relation between functional regulation and form-regulation; **Child**, 3.

"Polarity" a phenomenon of gradation of materials; **Morgan**, T. H., 7.

The effects on embryonic development of the Rontgen rays acting on the spermatozoa of the toad previous to fertilization; **Bardeen**.

### Oyum Oogenesis.

Trasformazione sperimentale delle uova lecitiche diffuse in uova telolecittiche; **Sanzo**.

Oogenesis, *Antedon*, cell-metabolism; **Chubb**.

Vitellus; **Du Buisson**.

Polarité de l'œuf des oursins (*Paracentrotus lividus*); **Garbowski**. (Polish.)

Ovocytes ramifiés et à forme hydroïde; **Soyer**.

Structure de l'œuf de Chauve-Souris (*Vespertilio noctula*); **Van der Stricht**, 1.

Les mitoses de maturation de l'œuf de la Chauve-Souris (*V. noctula*); **Van der Stricht**, 2.

Formation of the first polar spindle, egg, *Bufo lentiginosus*; **King**, 3.

### Spermatogenesis.

Action des rayons X sur les diverses générations de la lignée spermatique. Extrême sensibilité des spermatogonies à ces rayons; **Regaud** et **Blanc**, 1 and 2.

Morphologie und Genese abweichend gestalteter Spermatozoen; **Korschelt, 1.**

Ueber das Verhalten von Wirbeltierspermatozoen in strömenden Flüssigkeiten; **Adolphi.**

(**Pizon**; Prétendue ovulase des spermatozoides.)

Accessory chromosome, *Epeira*; **Berry, 2.**

Heterochromosomen; **Gutherz.**

Heterochromosomes, *Coleoptera*, *Hemiptera* and *Lepidoptera* sex determination; **Stevens, 3** and **3a.**

Comparative study of the spermatogenesis of insects; **McClung.**

Chromosomes in the spermatogenesis of the Hemiptera Heteroptera; **Montgomery, 2.**

(**Wilson, 6**; Studies on chromosomes. The behaviour of the idiochromosomes in Hemiptera.)

(**Wilson, 7**; Studies on chromosomes. II. The paired microchromosomes, idiochromosomes and heterotropic chromosomes in Hemiptera.)

Spermatogenesis, *Triton*; **Walker & Embleton.**

Spermatogenesis, *Oniscus*, chromosomes; **Nichols.**

Spermatogenesis *Förficula*; **Zweiger, 1 & 2.**

Spermatogenesis of *Coptocycla aurichalcea* and *guttata*, sex determination; **Nowlin.**

Spermatogenesis of the butterfly, *Papilio rutulus*; **Munson.**

Spermatogenesis of the honey bee; **Mark and Copeland.**

Modifications du syncytium nourricier dans le tube séminifère des hybrides; **Stephan, 3.**

## Embryology. Organogeny.

Revue annuelle d'Embryologie; **Loisel, 10.**

The relation between normal and abnormal development of the embryo of the frog; **Morgan, T. H., 5.**

(**Peter, 1**; Variabilität in der tierischen Entwicklung.)

Abriss der Keimblätterlehre in der Vergangenheit und der Gegenwart. (Russ.); **Kuschakewitsch.**

Mode of origin of the germinal layers in *Megalobatrachus maximus* (Schlegel) [and in holoblastic Anamnia, in general.] (Dutch); **Lange, D. de.**

Corrélations embryonnaires; **Rabaud, 2.**

Herkunft der Teilungscentren der ersten Furchungsspindel im befruchteten Ei; **Kostanecki.**

Gastrulation; **Eternod.**

Embryology, *Chaetopterus*; **Lillie.**

Development of the starfish egg; **Tennent and Hogue.**

(**Conklin, 3**; Mosaic development in ascidian eggs.)

Egg and first stages, Ascidiens; **Conklin, 1**; **Child, 5.**

Cell-lineage, Ascidian egg; **Child, 5.**

(**Wilson, 4**; Experimental studies on germinal localization. I. The germ-regions in the egg of *Dentalium*.)

Experimental studies in germinal localization. II. *Patella* and *Dentalium*; **Wilson, 5.**

Entwicklung des peripheren Nervensystems; **Kohn.**

Zür Frage nach der Entwicklung der peripherischen Nervenfasern; **Lenhossek.**

Entwicklungsphysiologie der Bilateralität; **Driesch, 2.**

## Fertilization.

Imprégnation et fécondation; **Battillon, 1.**

Ueber das Wesen der Befruchtung; **Prowazek, 1.**

Kontaktreizbarkeit; **Dewitz.**

Attrazione delle cellule sessuali; **Drago.**

Dispermy; **Boveri.**

Physiologische Polyspermie; **Bonnevie, 2.**

Self-fertilization induced by artificial means; **Morgan, T. H., 1.**

Versuche über Entwicklungserregung und Membranbildung bei Seeigee-

leiern durch Molluskensperma; **Kupelwieser.**

### Experimental embryology.

Influence de quelques facteurs sur la parthénogénèse expérimentale; **Delage, 1.**

Adjuvants spécifiques de la parthénogénèse expérimentale; **Delage, 2.**

Einfluss der Radiumstrahlen auf embryonale und regenerative Entwicklung. Nach den hinterlassenen Präparaten von Prof. Alfred Schaperf; **Levy.**

Künstliche Parthenogenese und das Wesen des Befruchtungsvorgangs; **Loeb, 2.**

(**Battaillon, 3.** Role de la pression osmotique en tératogénèse et en parthénogénèse expérimentales.)

Pressione osmotica e potere fecondante, nematospermi; **Ariola.**

Maturation de l'œuf chez *Rana fusca*: segmentation parthénogénésique; **Battaillon, 2.**

Développement de l'œuf de *Ascaris vitulorum* en milieu artificiel; **Jamnes et Martin.**

Salt solutions, frog's egg; **Jenkinson, 2.**

Compression, effects of on maturation and early development; **King, 1 and 2.**

Parthénogénèse artificielle des œufs du bombyx du mûrier, Recherches expérimentales; **Quajat.**

Elimination der Augenblasen und Entwicklung des Gesamtorganismus; **Steinitz.**

(**Zeleny, 1;** Experiments on the localization of developmental factors in the nemertine egg.)

### ETHOLOGY. 0219

#### General.

Ecological adaptation and ecological selection; **Robertson.**

Einführung in die Biologie der niederen Meerestiere; **Schoenichen.**

Naturwissenschaftliche, Plaudereien. Populär; Beobachtungen aus d. Tierleben; **Budde.**

Wetter und Erdbeben anzeigenden Tiere (ungarisch); **Méhely.**

Popular work on habits; **Coupin & Lea.**

Footprints, mammals; **Gauvreau.**

### Phenology.

Observations phénologiques effectuées à Ożydów en 1904 (Polish); **Hawry-siewicz.**

### Parental.

Origines de l'amour maternel; **Giard, 2.**

Relations entre les phénomènes du rut, de la lactation, de la mue et de l'amour maternel chez une Chienne hybride; **Loisel. 11.**

### Sexual.

Sexualität und ästhetisches Empfinden in ihrem genetischen Zusammenhange; **Kronfeld.**

### Social.

Sociétés animales, origine; **Petrucchi.**

Soziales und Wirtschaftliches aus dem Tierreich; **Huncke.**

Anfänge von Recht und Rang bei den höheren Tieren; **Velden, 2.**

Symbiose als abstracte Auffassung des beweglichen Gleichgewichts der Symbionten. (Russ. & deutsch. Rés.); **Elenkin.**

Animals associated with *Spongilla carteri*; **Annandale.**

### Parasitism.

Parasitismus der Thiere. (Russ.); **Mordvilko.**

Parasitisme et mutualisme dans la nature; **Laftte.**

Notes de parasitologie. A. Parasites végétaux. B. Parasites animaux; **Galli-Valerio, 2.**

How parasites are transmitted, modes of infection; **Ransom.**

Bacterial flora of carnivorous and of herbivorous animals; **Herter.**

**Voice.**

Die Stimm-laute der Tiere sind Mitbewegungen; **Knickenberg**.

(**Régis**; Les cris des animaux.)

**Habitat.**

Tierleben am Strande eines Atolles; **Schnee, 1**.

Faune bathypélagique, et des grands fonds; **Bouvier, 2**.

Faune pélagique, invertébrés; **Bouvier, 1**.

Sharks' teeth and cetacean bones; **Eastman, 2**.

Das Leben im Wasser und das Aquarium; **Jaeger**.

Termobiosi; **Issel**.

Die Kokospalme als Wohnort für Tiere; **Winkler**.

Die Bewohner der Moosrasen Ostpreussens; **Selinik**.

Ueber die mikroskopische Fauna und Flora eines im Freien stehenden Taufbeckens; **Zacharias, 6**.

(**Monti, Rina, 2**; Un modo di migrazione del plancton [lacustre] fin qui sconosciuto.)

**Speleology.**

Spelunca. Bulletin et Mémoires de la Société de Spéléologie. Dir. Martel. Trimestriel. Paris, (34, rue de Lille), 25 cm, 5. [Résultat de la fusion, à partir de 1901, de deux publications de la Société de Spéléologie: Spelunca et Paris, Mém. soc. spéléol.].

La spéléologie au XX<sup>e</sup> siècle. Revue et bibliographie des recherches souterraines de 1901 à 1905; **Martel**.

Origines de la faune souterraine; **Peyerimhoff, 1**.

Faune cavernicole des Basses-Alpes; **Peyerimhoff, 2**.

**Movement.**

La finalité dans l'étude des mouvements; **Bohn, 8**.

Mouvements en relation avec l'assimilation pigmentaire chez les animaux; **Bohn, 7**.

Spazierengehende Fische, musizierende Krebsse und andere sonderbare Gesellen; **Schnee, 2**.

Locomotion of amoebae and allied forms; **Dellinger**.

**Psychology.**

Intelligence of animals; **Avebury**.

Instinkt und Seelenleben; **Rohweder**.

De la bêtise du Chien et de la haute intelligence du Mouton (éthologie et psychologie comparées); **Baron**.

L'abstraction chez les animaux; **Hachet-Souplet**.

Menschlichen Reflexerscheinungen im Vergleich zu den tierischen; **Velden, 1**.

Menschen- und Tierseele; **Wundt**.

L'individualité animale. Observations de MM. Perrier, Baron; **Mezzara**.

Können die Tiere Schönheit wahrnehmen und empfinden?; **Möbius, 2**.

Orts- und Richtungssinn der Tiere; **Hopf**.

Stereotropismus etc.; **Dewitz**.

The mutual relations of stimuli in the frog; **Yerkes, 4**.

Relations of some plancton animals to light, (Danish); **Ditlevson**.

Sur l'adaptation des réactions phototropiques; **Bohn, 4**.

Sur des mouvements de roulement influencés par la lumière; **Bohn, 6**.

Temporal relations of neural processes; **Yerkes, 5**.

Le rythme des marées et le phénomène de l'anticipation réflexe; **Bohn et Piéron**.

George Bohn's studies in animal behavior; **Yerkes, 1**.

Modifiability of behavior in *Hydroides dianthus*; **Yerkes, 2**.

Behavior of the lower organisms; **Jennings, 2**.

Method of regulation in behavior and in other fields; **Jennings, 4**.

Modifiability in behavior. I. Behavior of sea anemones; **Jennings, 3**.

Modifiability of behavior. 2. Factors determining direction and character of

movement in the earthworm; **Jennings, 1.**

The mental life of the domestic pigeon. An experimental study of certain emotional and associative processes; **Rouse.**

Comparative studies in the psychology of ants and of higher animals; **Wasmann, 1.**

Some reactions of caterpillars and moths; **Mayer and Soule.**

Reactions of the crayfish; **Bell.**

Behavior of *Gonionemus*; **Yerkes, 3.**

Behavior of *Gonionemus*; **Morse.**

### Colour. Defensive Processes.

Coloration; **Prince.**

Les couleurs dans la nature; **Bohn, 3.**

Die Schutz- und Trutzfarben der Tiere; **Rothe.**

Albinismus (Leucismus) und Melanismus; **Seulen.**

Chromotropisme et son inversion artificielle; **Minkiewicz, 1.**

Phénomènes chromotropiques dans l'étude des problèmes biologiques et psycho-physiologiques; **Minkiewicz, 2.**

Biologische Untersuchungen Transkaspian (Russ.); **Faussek.**

Blutspritzende Thiere; **Rabes, 3.**

Mimikry; **Lorentz.**

### AETIOLOGY AND VARIATION.

0223

#### General.

Station for experimental evolution at Cold Spring Harbor; **Davenport, 6.**

Evolution, selection, inheritance of characters; **Davenport, 5.**

#### Variation.

Variations de la matière vivante; **Kunstler & Gineste, 2.**

Variation et évolution; **Bohn, 2.**

Plasticity of organisms; **Metcalf, 2.**

Variations in animals and plants; **Jordan, 3.**

Theorie der Korrelation; **Ranke.**

Variation and correlation, homogamy; **Pearl, 1.**

Investigation by statistical methods of correlation in variation; **Pearl, 2.**

Subspecies, mutations and forms; **Cockerell, 2.**

Laws of variation and inheritance, *Lepidoptera*; **Crampton, 1.**

Is there determinate variation?; **Kellogg, 3.**

Variation in parthenogenetic insects, amphimixis; **Kellogg, 4.**

Variabilität der Verdauungsröhre; **Bakak.**

Megalospheric and microspheric forms, *Foraminifera*; **Lister.**

Legge della riduzione progressiva della variabilità; **Rosa.**

†Development and variation of *Pentemites conoideus* and the dwarfing of the fauna of the Salem limestone; **Smith, Essie Alma.**

#### Mutation.

Mutation; **Davenport, 1; Ortman, 4, 6, 7; Gager; Šimkevic; Vaughan.**

Mutation theory, *Mollusca*; **Baker.**

The experimental data of the mutation theory; **Harris.**

Variabilität oder Mutabilität. (Russ.) **Kusnezow, 2.**

Variation versus mutation; **Casey.**

(**Davenport, 7;** Evolution without mutation.)

Théorie des mutations en Zoologie (Polish); **Tur, 2.**

Discontinuous variation; **MacDougal, 2.**

Mutationserscheinungen; **Nussbaum, 2.**

#### Teratology.

Théorie de la conrescence; **Tur, 1.**

Morphologie der Missbildungen; **Schwalbe, E.**

Monstruosités chez les animaux (Russ.); **Tarnani.**

Morphologie des rudiments squelettiques chez les monstres ectroméliens; **Salmon.**

Hyperdaktylie; **Inheldor.**



Monstruosités; organogénie et phylogénie; **Ernst**.

L'autoadaptation des embryons monstrueux et la tendance à l'anomalie; **Rabaud, 1**.

Origin of a polydactylous race, guinea-pig; **Castle, 4**.

Feuillet moyen dans un blastoderme de Canard sans embryon; **Weber**.

## Heredity.

### *General.*

Ueber Vererbung und die Notwendigkeit der Gründung einer Versuchsanstalt für Vererbungs- und Züchtungskunde; **Plate, 1**.

Der gegenwärtige Stand der Vererbungsfrage. Sammelreferat; **Teichmann**.

Experimental studies in heredity; **Castle & Mark**.

The analysis of racial descent in animals; **Montgomery, 3**. **Conklin, 2**.

Vererbungsproblem; **Perino**.

Vererbungsgesetze; **Correns**.

Hypothese der organischen Vererbung; **Hatschek**.

Sur l'hérédité; **Coutagne**.

Gesetze der Rassenmischung und die Konstitution des Keimplasmas; **Haacke**.

Vererbungsstudien; **Herbst, 1 & 2**.

Expériences sur l'hérédité; **Loisel, 7**.

Gedächtnis und Vererbung; **Meyer**.

Les forces physiques et l'hérédité dans la production des types organiques; **Perrier**.

Pathologie générale; **Le Dantec, 1**.

(**Le Dantec, 2**; Influences ancestrales.)

Heredity, and the origin of species; **MacDougal, 1**.

Einfluss des Alters der Eltern und der Keimzellen auf die Nachkömmlinge (ungarisch); **Abonyi**.

Heredity and variation; logical and biological; **Brooks**.

Vererbung und ihre materiellen Träger; **Prowazek, 2**.

Befruchtung und Vererbung; **Nussbaum, 1**.

Heredity, cytology of; **Farmer**.

Permanent forms, chromosomes; **Moore & Arnold**.

Die Vererbungsstanz; **Kassowitz**.

Vererbung u. Chromosomen; **Heider, 1 & 2**.

Transmissibilität des caractères acquis; hypothese d'une centro-épigenèse; **Rignano, 1**.

Die centro-epigenetische Hypothese und der Einfluss des Centralnervensystems auf embryonale Entwicklung und Regeneration; **Rignano, 2**.

Semons „Mneme“ und die „Vererbung erworbener Eigenschaften“; **Weismann**.

Weismann's position; **Ortmann, 5**.

Vererbung erworbener Eigenschaften?; **Lange, L. J.**

L'ereditarietà dei caratteri acquisiti in Patologia ed in Medicina; **Bonardi**.

(**Verney**; Les caractères nouveaux et le darwinisme.)

Discoveries in heredity and their bearings on animal breeding; **Castle, 1**.

Predominance of female characters; **Herbst, 2**.

### *Mendelian.*

Les lois de Mendel et l'hérédité; **Loisel, 1**.

Mendelschen Gesetze; **Lang**.

Exposition of Mendelism; **Darbishire**.

Exposition and bearing Mendelism; **Scourfield**.

Darwin and Mendel; **Doncaster**.

Mendelism, application to man; **Bateson**.

Mendel's laws, practical application; **Biffen**.

Mendelian results in animal breeding; **Davenport, 4**.

Mendel's law in relation to animal breeding; **Spillman, 1**.

Mendelian inheritance and the purity of the gametes; **Wilson, 1**.

### *Special cases.*

Hérédité et mutation chez les Souris; **Cuénot**.

Les portées noires de deux Souris blanches; **Féré**.

Yellow mice and gametic purity; **Castle, 3.**

Mendelian polled cattle; **Spillman, 2.**

Inheritance of coat-colour, cattle; **Barrington & Pearson.**

Inheritance coat colour swine; **Spillman, 3.**

Hérédité des caractères du pelage chez les Lapins; **Loisel, 8.**

Heredity, hair-length, guinea-pig; **Castle & Forbes.**

Heredity combs of poultry; **Bateson & Punnett.**

L'hérédité de la pigmentation chez les Pigeons; **Loisel, 9.**

(**McCracken, 1**; Inheritance of dichromatism in *Lina lapponica*.)

Inheritance of dichromatism in *Lina* and *Gastroidea*; **McCracken, 2.**

Inheritance in poultry; **Davenport, 2.**

On the imperfection of Mendelian dominance in poultry hybrids; **Davenport, 3.**

The optic chiasma of teleosts: a study of inheritance; **Larrabee.**

Heredity of webbed foot, pigeons; **Staples-Browne.**

Sex-ratio, inheritance of; **Heron.**

Inheritance of size of litter, sows; **Rommel & Phillips, 1 & 2.**

Inbreeding, cross-breeding, and sterility in *Drosophila*; **Castle, 2**; **Castle & Carpenter, etc.**

An exception to Mendel's law; **Noorduyn.**

### Hybrids, Telegony.

Gesetz der Bastardbildungen (ungarisch); **Soós.**

Effets produits par l'hybridation sur la structure des organes génitaux; **Stephan, 2.**

Degré de développement des organes génitaux des Hybrides; **Stephan, 1.**

Modifications du syncytium nourricier dans le tube séminifère des hybrides; **Stephan, 3.**

Télégonie; **Loisel, 3.**

### Evolution, Origin of Species.

Mechanik der Entwicklung der tierischen Lebewesen; **Wimmer.**

Palaeontology and biology; **Woodward.**

Evolution, geological aspect; **Lobley.**

Einführung in die Deszendenztheorie. Sechs Vorträge; **Schneider.**

Theory of organic evolution; **Metcalf, 1.**

Evolution et transformisme; **Mary et Mary.**

Animal evolution, exposition of **Headley.**

Der Perfectionismus (Russ.); **Fedorov.**

Mathematische Theorie der Evolution der Arten nach Prof. K. Pearson mit Anwendung auf die Untersuchungen von Prof. N. Kusnezow (Russ.); **Kolosow.**

Trial and error, factor in evolution; **Pillsbury.**

The vital fabric of descent; **Cook, 3.**

Darwinism; **Guenther, Conrad.**

Theories of evolution since Darwin; **Brown, 1.**

Origin of species, factors; **Jordan, 2.**

Origin of species; **Cook, 1.**

Gründe des Aussterbens der vorzeitlichen Tierwelt; **Frech, 1.**

Darwinismus und Lamarckismus. [Krit. Referat über A. Pauly.]; **Stieler.**

Gegensatz zwischen Darwins und Lamarcks Lehren vom organischen Zweckmässigen; **Pauly.**

Darwinismus kontra Mutationstheorie; **Plate, 3.**

(**Grampton, 2**; A general theory of adaptation and selection.)

Origin of species, evolution and speciation; **Cook, 2**; **Ortmann, 3.**

Isolation versus natural selection. Criticism of Jenkins; **Stejneger, 1.**

Origin of species, isolation in; **Ortmann, 2.**

Origin of species, isolation; **Allen, 4.**

Isolation and origin of species; **Berry, 1**; **Ortman, 1.**

Isolation by choice; **Lane.**

Origin of species by mutation or minute variation; **Merriam.**

An investigation of evolution in chrysomeiid beetles of the genus *Leptinotarsa*; **Tower, 1.**

Experimental investigations of the production and preservation of new character races and species in insects; **Tower, 2.**

A three-fold development. A study in evolution; **Powers.**

Influence of physical conditions in the genesis of species; **Allen, 1.**

Climatic conditions and origin of species; **Cockerell, 1.**

Die physiologische Zuchtwahl im weiteren Sinne; **Dahl, 1.**

Speziesbegriff; **Bachmann.**

Ontogenetic and phylogenetic species; **Brown, 2.**

Heredity and subspecies; **Allen, 3.**

Species dividing into subspecies; **Latter, 1.**

Metazoa and their sex-cells, possible mode of origin; **Štolc.**

Origin of mammals; **Brown.**

Note on assortative mating; **Kellogg, 2.**

Natural selection; **Rainbow.**

Ecological adaptation and ecological selection; **Robertson.**

## GEOGRAPHY. 0227

Seas are classed with the lands they are near: Mediterranean with Europe, and so on.

### General.

Distribution géographique des animaux vivants et fossiles; **Trouessart.**

Die tiergeographischen Reiche und Regionen; **Arlt, 1.**

Biologie des Meeres. Rede . . . ; **Hensen, 1 & 2,**

Plankton des Meeres; **Rauschenplat.**

Tiergeographie, Faunistik und Heimatkunde; **Speiser, 1.**

Beziehungen faunistischer Untersuchungen zur Tiergeographie und Erdgeschichte; **Speiser, 2.**

Anleitungen zur graphischen Terrain-darstellung; **Alte.**

Effetti della cenere del Vesuvio sugli organismi marini; **Lo Bianco, 1 & 2.**

Planktonforschung und Darwinismus; **Zacharias, 1.**

Bedeutung vertikaler Wasserbewegungen für die Produktion des Planktons; **Nathanson.**

Macotische Stufe; **Andrussow.**

Die Bedeutung der alten Kontinente Russlands für die Frage von der Herkunft der Landwirbelthiere (Russ.); **Amalitzky.**

Periodizität, Variation und Verbreitung verschiedener Planktonwesen in südlichen Meeren; **Zacharias, 4.**

L'origine des faunes d'eau douce; **Pelseener.**

Freshwater faunas, nature and origin; **Brady.**

Ueber Süßwasserplankton; **Wesenberg-Lund, 1.**

†The Russian Carboniferous and Permian compared with those of India and America; **Schuchert.**

### Expeditions, Travels.

Catalogue des espèces de plantes et d'animaux observées dans le Plankton recueilli pendant les expéditions périodiques depuis le mois d'Avril 1902 jusqu'au mois de Mai 1905; **Ostenfeld.**

Plankton-Expedition der Humboldt-Stiftung; **Hensen, 3.**

Zoologische Ergebnisse einer Untersuchungsfahrt des deutschen Seefischerei-Vereins nach der Bäreninsel und Westspitzbergen, ausgeführt im Sommer 1898 auf S. M. S. „Olga“; [Olga].

Murman-Expedition. (Russ.); **Ja-godovskij.**

Wissenschaftlich praktische Murman-Expedition. Bericht über die Thätigkeit pro 1903 (Russ.); **Breitfuss, 2.**

Kurze Mitteilung über die Arbeiten der wissenschaftlichen Murmanexpedition i. J. 1905; **Breitfuss, 1.**

Kaspischen Expedition im J. 1904; **Knipowitsch, 2.**

„Valdivia“ Tiefsee-Expedition; **Chun.**

Exploration de l'Afrique orientale; **Rothschild**, Maurice de.

Naturforscherschaft durch Aegypten und den Sudan; **Kammerer**.

Mission saharienne, notes sur la faune; **Foureaux**.

Rapport sur une mission scientifique à la côte française des Somalis; **Gravier**, 1.

Gewässern des Ostens, Project einer wissenschaftlich-gewerblichen Expedition nach den (Russ.); **Schmidt**, 2.

Malay States; **Annandale & Robinson**.

Indian Ocean, Percy Sladen expedition; **Gardiner**, 3.

Seychelles, Percy Sladen expedition; **Gardiner**, 2.

Reise nach Java; Eindrücke einer Naturforschers (Russ.); **Karavajev**.

Nova Guinea; **Wichmann**.

New Guinea; **Pratt**, A. E. and **Pratt**, H.

General report of the expedition. Hydrography, character of bottom, bottom and pelagic fauna, sea temperatures, specific gravities of waters, air temperatures, winds, descriptions of the Galapagos, Sala y Gomez, Easter island and Manga Reva; **Agassiz**.

(**Richard**, 2; Campagne scientifique du yacht Princesse Alice.)

Septième campagne scientifique de la Princesse Alice; **Monaco**.

†**Ziegler** exploring expedition. Notes on some Jurassic fossils from Franz Josef Land; **Whitfield**.

Hudson's bay and Arctic islands, "Neptune"; **Low**.

Expedition antarctique belge; [Belgica].

Antarctic, "Scotia"; **Brown** and others.

## Faunae.

### *Palaeartic.*

Die Wirbeltiere Europas mit Berücksichtigung der Faunen von Vorderasien und Nordafrika; **Schmiedeknecht**.

### *Europe and Mediterranean.*

Das Thierleben im Balsfjord; **Kiær**,

Plankton-Untersuchungen in norwegischen Seen; **Huifeldt-Kaas**.

†Swedish post-glacial fauna; **Wittwe**.

Scotch and Danish lakes, a comparative study; **Wesenberg-Lund**, 2 (Danish).

Liste des travaux relatifs à la Physiographie de la Pologne, publiés en 1903, 1904 et 1905 (Polish); **Romer**, Eugeniusz.

Skizzen zur Naturbeschreibung des Kaukasus; **Satunin**, 1.

Verzeichnis der im See Sadjerw im Gouv. Livland gesammelten Tierorganismen (Russ.); **Ssamsonow**.

Die paläozoischen Gebilde Podoliens. I. Stratigraphischer Theil; **Siemiradzki**.

Plancton, Gewässer Nordrusslands; **Zykoff**.

Eiszeitrelikte in unserer Tierwelt; **Hesse**, 2.

Faunistische Untersuchung der Gewässer des Zehlauerbruchs; **Protz**.

Sammelreise im Kreise Oletzko; **Speiser**, 3.

Einwanderer aus Osten; **Rabes**, 2.

Tier- und Pflanzenleben in einem der kleinsten Wasserbecken bei Liegnitz; **Langenhan**.

Fauna des Oberhains und seiner Umgebung; **Lauterborn**.

Zur Kenntnis des Mellum-Eilandes; **Focke**, **Schütze** und **Sartorius**.

Das Tierleben im Grunewald; **Dahl**, 3.

Die lungenatmenden Wirbeltiere Schleswig-Holsteins; **Dahl**, 4.

Das Tierleben des Odenwaldes; **Buxbaum**.

Plankton des Zierker Sees; **Günther** und **Reichle**.

Bremerhaven, Plankton einiger Teiche in der Umgegend von; **Lemmermann**.

Plankton in Nord- und Ostsee; **Apstein**, 2.

Grossteiches bei Dresden; **Schorler & Thallwitz**.

Kew Gardens, London, wild fauna; **Thiselton-Dyer** and others.

Ireland marine Plankton; **Gough**.

Berkshire list of animals; **Ditchfield & Page**,

- Cornwall, list of animals; **Page, 1.**  
 Devon, list of animals; **Page, 2.**  
 Somersetshire, list of animals; **Page, 3.**  
 Tay basin and Strathmore; **Harvie-Brown.**  
 Modifications récentes dans la faune des Alpes; **Corcelle.**  
 La faune et la flore glaciaires du plateau de la Baraque-Michel (point culminant de l'Ardonne); **Fredericq, Léon, 2.**  
 Exploration zoologique de la grotte de Tharana (Gard); **Chobaut.**  
 Planctoniche, R. Nave Liguria, Relazione preliminare ed elenco delle Stazioni; **Senna.**  
 Osservazioni limnologiche, laghi italiani; **Zacharias, 7.**  
 Die Tierwelt Sardiniens; **Simroth.**  
 Planktonfauna des Gardasees; **Brehm, 2.**  
 Ricerche biolimnologiche, Lago di Lavarone; **Largalotti.**  
 Laghi Ossolani e Valdostani, Piscicoltura; **Monti.**  
 (Pavesi; Fauna augustana. Sunto.)  
 Mares de Pouillere, Jura, faune invertébrée; **Thiebaud et Farre.**  
 Vierwaldstätter-See, Tiefenfauna; **Zschokke, 1 & 2.**  
 Faune invertébrée du lac de St. Blaise; **Thiebaud.**  
 Sechs Wochen durch Dalmatien, Herzegovina und Bosnien; **Brancsik.**  
 †Das marine Karbon in Ungarn (ungarisch und deutsch); **Frech, 2.**  
 Tierleben des Alföldes (ungarisch); **Hanusz.**  
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 La Region méditerranéenne des Baléares; **Buen.**  
 Meeresverschleimung im Golf von Triest; **Cori.**  
 Allgemeine biologische Meeresuntersuchungen; **Brandt.**  
 Alpine lakes Austria; **Brehm & Zederbauer, 1; Brehm, 1.**  
 Plankton in den Seen der Ostalpen; **Brehm und Zederbauer, 2.**  
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 Zoologische Excursion nach den Quellen der Kura (Russ.); **Satunin, 3.**  
 Der Baikalsee—ein tiergeographisches Rätsel; **Arlidt, 2.**  
 Le lac Baikal; étude de géographie zoologique; **Cz., St.**  
 Mongolei und das Land Cham (Russ.); **Kozlov.**  
 Mikroskopische Süßwassertiere aus der Mongolei (ungarisch); **Daday.**  
 †China, Cambrian faunas of; **Walcott.**  
 (Pavie; Histoire naturelle de l'Indo-Chine.)  
 Ceylon, marine biology; **Herdman and others.**  
 Maldive and Laccadive Arch.; **Gardiner, 1.**  
 Fauna und Ozeanographie der japanischen Küste; **Doflein.**  
 Reise in Ost-Asien und auf den Sandwich-Inseln; **Volz.**  
 Asiatic Archipelago.  
 †Preliminary geological reconnaissance of the Lobo mountains, Butangas province; **Smith.**  
 Africa.  
 La faune du Cap de Bonne-Espérance au xviii<sup>e</sup> siècle; **Dehérain.**  
 Liberia; **Johnston.**  
 North America.  
 †Postglacial dispersal of the North American biota; **Adams.**  
 Yukon exploration, 1865-1868; **Dall.**  
 Tide-pools on the west coast of Vancouver island. Marine fauna and flora and geologic features; **Henkel.**

An ecological survey in the Porcupine mountains and Isle Royale, Michigan; **Ruthven**.

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†Age and type localities of the supposed Jurassic fossils, Fort Bridger, Wyoming; **Veatch**.

California, Prehistoric; **Yates**.

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Voyage à travers les hauts plateaux boliviens; **Neveu-Lemaire**.

†Patagonia, Tertiary and Upper cretaceous faunae; **Ameghino**.

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Fauna arctica; **Römer and Schaudinn**.

Erforschung der arktischen Fauna (Norw.); **Bidenkap**.

Nordisches Plankton; **Brandt & Apstein**.

Hydrologie des Europäischen Eismeer (russ.); **Knipovič, 1**.

Game and hunting in south-Greenland (Danish); **Müller, R**.

#### *Antartic.*

*vide* Expeditions, p. 61.

#### *Oceanic and Insular.*

La faune pélagique des Invertébrés, La mer des Sargasses et sa faune; **Bouvier**.

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### TAXONOMY. 0231

Pathologie et classification; **Galli-Valerio, 1**.

Les ouvrages de détermination d'animaux; **Loisel et Chappellier**.

# II. PROTOZOA

ARRANGED BY

II. M. WOODCOCK, D.Sc. (Lond.)

## CONTENTS

	PAGE
I. TITLES .. .. .	4
II. SUBJECT INDEX:—	
Comprehensive and General = 0403:—	
Treatises, etc. .. .. .	23
Bibliography.. .. .	23
Economics .. .. .	23
Protozoa and disease .. .. .	23
Mycetosis .. .. .	23
Amoebosis .. .. .	23
Haemosporidiosis .. .. .	23
Piroplasmosis .. .. .	24
Myxosporidiosis .. .. .	24
Trypanosis .. .. .	24
Various .. .. .	25
Miscellaneous .. .. .	25
Transmission, exper. infection .. .. .	25
Artificial cultivation .. .. .	25
Technique .. .. .	25
Structure = 0407:—	
General Anatomy, Morphology .. .. .	26
(a) of Sarcodina .. .. .	26
(b) of Sporozoa .. .. .	26
(c) of Mastigophora .. .. .	26
(d) of Ciliophora .. .. .	27
Minute Structure; Special Anatomy:—	
(a) General; test, shell, etc. .. .. .	27
(b) Cytoplasm and nucleus .. .. .	27

	PAGE
Physiology = 0411 :—	
General .. .. .	28
Nutrition .. .. .	28
Respiration .. .. .	28
Senescence, recuperation .. .. .	28
Sexual relations .. .. .	28
Movement .. .. .	28
Environment and adaptation .. .. .	28
Development and reproduction = 0415 :—	
(a) Sarcodina .. .. .	29
(b) Sporozoa .. .. .	29
(c) Mastigophora .. .. .	30
(d) Ciliophora .. .. .	30
Ethology = 0419 :—	
General .. .. .	30
Luminosity .. .. .	30
Plankton .. .. .	30
Psychology .. .. .	31
Commensalism .. .. .	31
Parasitism .. .. .	31
General .. .. .	31
Plantae .. .. .	31
Sporozoa .. .. .	31
Echinodermata .. .. .	31
Rotifera .. .. .	31
Platyhelminthia .. .. .	31
Chaetopoda .. .. .	31
Hirudinea .. .. .	31
Crustacea .. .. .	31
Myriapoda .. .. .	32
Insecta .. .. .	32
Arachnida .. .. .	32
Mollusca .. .. .	32
Pisces .. .. .	32
Amphibia .. .. .	33
Reptilia .. .. .	33
Aves .. .. .	33
Mammalia .. .. .	33
Variation, Phylogeny = 0423..	34
Distribution, Geography = 0427 :—	
Geographical. . . . .	34
General .. .. .	34
Europe .. .. .	34
Asia .. .. .	34
Australasia .. .. .	34
America .. .. .	34
Oceanic .. .. .	35



## Geological:—

General .. .. .	35
Quaternary .. .. .	35
Tertiary .. .. .	35
Mesozoic .. .. .	36
Palaeozoic.. .. .	36

## III. SYSTEMATIC = 0431 :—

Protozoa, General .. .. .	36
1. Mycetozoa .. .. .	36
2. Sarcodina .. .. .	36
(a) Amoebaea .. .. .	36
(b) Foraminifera .. .. .	37
(c) Heliozoa .. .. .	40
(d) Radiolaria .. .. .	40
(e) Incertae sedis.. .. .	40
3. Sporozoa .. .. .	42
(a) Gregarinidea .. .. .	42
(b) Coccidiidea .. .. .	42
(c) Haemosporidia .. .. .	43
(d) Myxosporidia.. .. .	44
(e) Haplosporidia.. .. .	44
(f) Incertae sedis.. .. .	44
4. Mastigophora .. .. .	45
(a) Flagellata .. .. .	45
(b) Silicoflagellata .. .. .	46
(c) Dinoflagellata.. .. .	46
(d) Rhynchoflagellata .. .. .	47
5. Ciliophora .. .. .	47
(a) Ciliata.. .. .	47
(b) Acinetaria .. .. .	48

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## II.—SUBJECT INDEX.

### COMPREHENSIVE AND GENERAL. 0403

#### Treatises, Reviews, etc.

The Protozoa in the "Cambridge Natural History"; **Hartig**.

Tierpathogene Protozoen; **Kaestner**, **2**.

Handbuch der pathogenen Mikroorganismen; **Kolle** und **Wassermann**.

Die im Blute schwärmenden Protozoen und ihre nächsten Verwandten; **Lühe**, **1**.

Trypanosomen als Krankheitserreger; **Nocht** und **Mayer**.

Pathogenic Protozoa; **Calkins**, **5**.

Pathogenic microorganisms, including Protozoa; **Park** and **Williams**.

Amöbenruhr; **Ruge**, **2**.

Trypanosomes and *Piroplasmata*. Advance in our knowledge of the diseases they cause in stock in South Africa during the last 10 years; **Bruce**, **2**; also **Theiler**.

Trypanosomen als Parasiten und Krankheitserreger (Sammelreferat); **Kaestner**, **1**.

Protozoen als Krankheitserreger; **Kossel**.

Trypanosomi quali cause di malattie (lezione); **Lustig**.

Protozoen als Krankheitserreger; **Michaelis**.

"*Cytorhynchus*"-Arbeiten, zur Kritik der bisherigen; **Stegel**.

Urtierchen als Parasiten und Krankheitserreger; **Thesing**.

Protozoan diseases of Man and animals in India and German East-Africa; **Treutlein**.

Review of the Haemoflagellates; **Woodcock**, **2**.

The Protozoa found in plankton, as illustrating the educational value of Nature-study; **Zacharias**, **3**.

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#### Economics.

Contamination of drinking waters by Protozoa, and its prevention; **Camusat**.

#### PROTOZOA IN RELATION TO DISEASE.

##### (a.) *Mycetosis*.

Disease of the beetroot ("dry-rot") caused by *Myxomonas*, a new Myceto-zoan; **Brzezinski**.

##### (b.) *Amoebosis*.

Befund von Rhizopoden bei zwei Fällen von Poliomyelitis acuta; **Ellermann**.

Amoebosis; **Musgrave**.

Pathogenesis of *Amoebae*; **Musgrave** and **Clegg**.

##### (c.) *Haemosporidiosis*.

Malarial epidemic in Greece and the different types of parasite associated therewith; **Cardamati** and **Diamesi**.

Malaria, latent infection; **Craig**.

Phagocytosis of malarial crescents; **Bernstein.**

De la persistante vitalité de l'hématozoaire de Laveran dans le cadavre humain; **Gillot.**

Malaria in Athens; **Pezopoulo** and **Cardamati.**

Le paludisme et les moustiques (prophylaxie); **Pressat.**

Aestivo-autumnal fever; **Veazie.**

(d.) *Piroplasmosis.*

Protozoaires dans le bouton du Nil; **Billet, 2.**

Piroplasmosis in the white rat; **Fantham.**

Relation of the different forms of *Piroplasma* to the blood-corpuscles; **Lühe, 2.**

Canine piroplasmosis (relation of the parasites to the corpuscles); **Nuttall** and **Graham-Smith.**

Ueber das in Japan beobachtete Rinderpiroplasma; **Miyajima** und **Shibayama.**

(e.) *Myxosporidiosis.*

("Pseudodiphtheria" in *Alosa finta* due to *Branchiophaga*, a new Myxosporidian; **Mazzarelli, 3.**)

On myxosporidiosis in the barbel, caused by *Myxocololus Pfeifferi*; **Stazzi.**

(f.) *Trypanosis.*

Trypanosomosis in the Anglo-Egyptian Soudan; **Balfour, 5.**

Histology of sleeping sickness and trypanosomosis, with comparison of changes found in animals infected with *T. gambiense* and other *Trypanosomata*; **Breinl.**

Human trypanosomosis; **Brodén.**

Sleeping-sickness in Uganda; **Bruce, 1.**

(Trypanosomes et trypanosomoses; **Brumpt, 5.**)

On the distribution of Trypanosomes (*T. brucei*) in the different organs (of rabbits); **van Durme.**

Comparison between the Trypanosomes present by day and by night in the peripheral circulation in cases of human

trypanosomosis; **Dutton, Todd** and **Tobey, 2.**

Le Nagana chez la poule; **Göbel.**

Beitrag zur Kenntnis der menschlichen *Trypanosoma*-krankheit; **Kudicke.**

Trypanosomiasis du Haut-Niger; un nouveau Trypanosome pathogène; **Laveran, 1.**

Sur trois virus de trypanosomiase humaine de provenances différentes; **Laveran, 2.**

De l'identité du Surra et de la Mbori; **Laveran, 5.**

Identification des Trypanosomes pathogènes—Essais de sérodiagnostic; **Laveran** et **Mesnil, 1.**

Du rôle important du *Trypanosoma dimorphon* dans les épizooties de la Guinée française; **Martin, 1.**

Les Trypanosomiasis de la Guinée française; **Martin, 2.**

Untersuchung der Tsetsekrankheit zwecks Immunisierung von Hausthieren; **Martini.**

Le lesioni anatomopatologiche causate dal *Trypanosoma evansi* nella infezione sperimentale del sorcio, del topo e della cavia; **Massaglia.**

Microscopic changes in the nervous system of Dourine, compared with those found in sleeping-sickness; **Mott, 1-3.**

La Soumaya; trypanosomiase du Moyen-Niger; **Pécaud.**

Nagana expérimental. Les variations du nombre des Trypanosomes dans le sang du chien. Trypanolyse intravasculaire et pouvoir trypanolytique du sérum; **Rodet** et **Vallet, 2, 3.**

Temporary disappearance of *T. brucei* from blood of infected dogs; **Roux** and **Lacomme.**

Pathological histology in artificial infection with *Trypanosoma brucei*; **Sauerbeck.**

Études sur les trypanosomiasis de Berbérie en 1905; **Sergent** et **Sergent, 1.**

Effects of Trypanosomes of Gambia fever and sleeping-sickness in rats compared; **Thomas.**

*Trypanosomata* and trypanosomosis; **Tobey.**

Means of checking spread of sleeping-sickness; **Todd, 2.**

Treatment of human trypanosomiasis by atoxyl; **Todd, 1.**

Trypanosomiase des chevaux de l'Annam; **Vassal.**

Human trypanosomiasis and spirochaetosis in Portuguese South-West Africa, with prophylactic suggestions; **Wellman.**

(g.) *Various.*

Protozoa (malarial parasites and Trypanosomes) in relation to disease; **Nocht.**

Beitrag zur Frage der Pathogenität der Flagellaten; **Biland.**

Flagellated Protozoa in a perineal abscess; **Hunt.**

Die Ichthyophthiriasis; **Glevisch.**

Pathogenität des *Balantidium coli*; **Ehrnroth.**

Infusoria in Typhus stools; **Krause.**

Die im menschlichen Darne vorkommenden Protozoen und ihre Bedeutung; **Roos.**

Les maladies bryocytiques (maladies à Protozoaires). La syphilis; **Bosc.**

Experimental vaccinia and variola in monkeys and the occurrence of *Cytophytes*; **Brinkerhoff** and **Tyzzar.**

Protozoan parasites in relation to tumours; **Saul.**

Different effects of the cancer parasite upon the cells; **Schüller.**

### Miscellaneous.

*Mode of transmission, experimental infection.*

Methods of transmission and inoculation of Trypanosomes; **Brumpt, 2-4.**

Etiology of sleeping-sickness; **Minchin.** *Gloesina palpalis* in relation to Trypanosomes; **Minchin, Gray** and **Tulloch.**

*Trypanosoma duttoni*, observed in the fetus of a mouse; **Pricolo.**

Sensibilité des écureuils au Nagana expérimental; **Mathis.**

Exceptional susceptibility of birds (geese) to pathogenic Mammalian Trypanosomes; **Mesnil** and **Martin.**

Susceptibility of monkeys and Ruminants to the Trypanosome of Dourine; **Mesnil** and **Rouget.**

*Trypanosoma brucei* et Nagana expérimental; **Rodet** et **Vallet, 1-3.**

Experimental reproduction of amœbic dysentery; **Gauducheau.**

Probable mode of infection in the case of the Leishman-Donovan bodies; **Rogers.**

### *Artificial cultivation.*

Les cultures de Protozoaires (*Opalinae*) et les variations de la matière vivante; **Kunstler** et **Gineste, 1.**

Pretesa coltivazione delle Amebe parassite dell'intestino umano; **Barbagallo.**

*Amoebae*; **Musgravé** and **Clegg.**

*Coccidium hominis* from the rabbit; **Galli-Valerio.**

Kultivierungsversuch der Hundepiroplasmen; **Kleine.**

Development of the Flagellate forms of Leishman-Donovan bodies in acid media; **Rogers.**

*Trypanosoma rotatorium*; **Bouet.**

Results of attempts to cultivate Trypanosomes from frogs; **Lewis** and **Williams.**

Isolation of "Trypanosomes" (*Herpetomonas* and *Crithidia*) in cultures, from accompanying Bacteria; **Novy** and **Knapp.**

Mosquito "Trypanosomes," (*Herpetomonas* and *Crithidia*); **Novy, McNeal,** and **Torrey.**

### *Technique.*

Sur une modification au milieu de **Novy-MacNeal** pour la culture des Trypanosomes; **Mathis.**

(Sur la fixation à l'état d'extension des animalcules contractiles et spécialement des Vorticelles; **Beauchamp.**)

Capture, observation, and fixation of fresh-water Infusoria; **Raymond.**

Modification of **Romanowsky-Giemsa** method of staining; **Billet.**

Canine piroplasmiasis; **Nuttall** and **Graham-Smith.**

Einführung in das Studium der Malariakrankheiten mit besonderer Berücksichtigung der Technik; Ruge, 1.

Contributo al studio morfologico del *Plasmodium quartanae*; Levi della Vida,

On a haemogregariniform phase in the parasite of quartan fever (*Plasmodium malariae*); Billet, 1.

STRUCTURE. 0407

General anatomy and morphology.

Fundamental characters of the simplest type of organism (*Amoeba*); Entz, 1, 2.

A new order of fossil, incrusting organisms, the *Spongiostromaceae*, regarded as Protozoa; Gürlich.

Diagnose différentielle des formes annulaires des hématozoaires du paludisme; Billet, 4.

On a new *Leucocytozoon* of Mammals; Balfour, 2, 4.

*Leucocytozoon canis*; Christophers.

On a Protozoan parasite from a dog (similar to that of Bentley = *Leucocytozoon canis*); Wenyon.

*Piroplasma muris*; Fantham.

Structural details of the different forms of *Babesia* (*Piroplasma*); Lühe, 2.

Canine piroplasmosis. v. On the morphology of the parasite (*P. canis*); Nuttall and Graham-Smith.

Structure of the Protozoan bodies observed in "bouton du Nil"; Billet, 2.

*Pleistophora periplanetae*; Perrin, 1.

(Recherches sur les Haplosporidies; Caullery et Mesnil.)

On the structure of *Rhinosporidium kincalyi*; Beattie.

Sur la biologie et la spécification des *Amœbidium*; Chatton, 2; morphologie de l'*Amœbidium recticola*; Chatton, 3.

(a.) of SARCODINA.

*Myxomonas betae*, a new Mycetozoan parasite; Brzezinski.

Fresh-water Rhizopods; Averintzev, 1, 3, 5,

Mittheilungen über den Bau von *Pelomyxa lacustris*; Bott.

*Entamoeba coli* and *E. histolytica* compared; Musgrave and Clegg.

Arenaceous Foraminifera; Kemna.

On the dimorphism of *Textularia gibbosa*; Silvestri, 3.

Ricerche strutturali su alcune Foraminiferi di Bonfornello; Silvestri, 4.

Account of Xenophyophora; Schulze, 1, 2.

Structure of *Atlanticella*, a new Tripylarian; Borgert, 2.

(b.) of SPOROZOA.

Morphology of *Cystobia chloridotie* and *Nyalosphaera gregarinicola*; Dogiel, 1; "*Cystobia*" irregularis and other neogamous Gregarines; Woodcock, 1.

A new Sporozoan, *Eleutherosclizon dubosqi*; Brasil, 1.

*Taeniocystis*, a new metameric Gregarine; Léger, 3.

Haematozoa of marine fish; Lebailly.

On a Haemogregarine of Mammals; Balfour, 2 and 3; *Haemogregarina lignièresi* n. sp.; Laveran, 3.

On the Haemosporidian (prob. *Haemogregarina* sp.) of *Testudo ibera* (*T. mauritanica*); Popovici-Bazosanu.

(c.) of MASTIGOPHORA.

A new Chryomonad, *Palatinella* n. g.; Lauterborn, 1.

A new *Herpetomonas*, *H. algeriense*; Sergent, E. and E., 2.

*Herpetomonas*-like parasites; Balfour, 1.

Mosquito Trypanosomes (*Herpetomonas* and *Crithidia*), cultural forms; Novy, MacNeal and Torrey.—Tsetse-fly Trypanosomes (including *Typanosoma grayi* n. sp.; Novy.

Comparative morphology of the Trypanosomes met with in *Glossina palpalis*; Minchin, Gray and Tulloch.

Trypanosomes of frogs; França and Athias, 2.



Different forms of a Trypanosome of bats; **Nicolle and Comte, 1.**

Curious morphological features in *Trypanosoma brucei*; notes on other Haematozoa; **Robertson, 1.**

Morphology of *T. pestanaï* and *T. vesperilionis*; **Bettencourt and França, 1, 2**; *T. rotatorium*; **Bouet**; *T. theileri*, as observed in oxen in Transcaucasia; **Luchs.**

A Trypanosome and a new intracorporeal parasite from the mole; **Thomson.**

Structure of *Trypanoplasma borreli*; **Keysseltz.**

Formenkreis von *Peridinium depressum*; **Brock, 2.**

On the structure of *Gonyaulax triacantha*, Jörg; **Kofoid, 5.**

Morphology of *Triposolenia*, a new Dinoflagellate; **Kofoid, 2.**

*Pyrodinium*, a new genus of Dinoflagellates; **Plate.**

A new Rhynchoflagellate, *Radiozoum lobatum* n. g., n. sp.; **Mingazzini.**

(d.) of CILIOPHORA.

Notes on certain aspirotrichous Infusoria; **Schouteden, 1.**

Structure of *Epistylis gasterostei* n. sp.; **Fauré-Fremiet, 2.**

Beiträge zur Kenntnis von: *Campyrella umbellaria* l. sp. (*Epistylis flavicans* + *grandis* Ehrbg.); **Schröder, 1**; *Epistylis plicatilis* (Ehrbg.); **Schröder, 2**; *Vorticella monilata* Tatem; **Schröder, 4**; *Stentor coeruleus* Ehrbg. und *St. roeselii* Ehrbg.; **Schröder, 5.**

A new Vorticellid, *Opisthonecta heneguyi*; **Fauré-Fremiet, 7.**

Detailed account of *Trichodinopsis paradoxa*; **Issel.**

Orientation of the body in *Opalina*; **Kunstler and Gineste, 2.**

Structure of: *Ophrydium versatile*; **Fauré-Fremiet, 8**; *Tintinnoidium inquininum*; **Fauré-Fremiet, 9**; *Dendrosomides*, a new Acinetarian; **Collin.**

Minute structure; special anatomy.

(a) Test, shell, etc.

On the tests of certain new freshwater Rhizopods; **Averintzev, 3.**

Die Struktur und die chemische Zusammensetzung der Gehäuse bei den Süßwasserhizopoden; **Averintzev, 4.**

Finer structure of the test of *Arcella*; **Cushman and Henderson.**

Étude sur la *Clypeolina marginata*, Rhizopode avec coquille à deux valves; **Penard.**

General structure of Foraminiferan shells; **Lister.**

Sur la structure du test dans les Fusulines; **Douvillé, 1**; structure of shell in *Orbitolina*; **Douvillé, 5.**

Sur la formation du réseau des Nummulites réticulées; **Boussac, 1, 3.**

Ueber die Mittel der Formbildung im Radiolarienkörper; **Häcker, 3.**

Chemical nature of the skeletal substance of Acantharia; **Bütschli, 1.**

Presence of a spherical skeleton or test, in addition to spines, in *Acanthocystis pertyana*; **Lord.**

Skeletal structure of *Acanthomebriidae*; **Mielck**: Of the *Acanthophracta*; **Popofsky, 2.**

La paroi sporale des Myxosporidies; **Léger et Hesse.**

Structure and arrangement of the skeletal plates in *Gonyaulax triacantha*; **Kofoid, 5.**

(b.) Cytoplasm and Nucleus.

Sur la structure intime du protoplasma chez les Protozoaires; **Fauré-Frémiat, 1.**

Protoplasm of Protozoa; discussion with regard to terms "spherule," "spheroplast," &c.; **Fauré-Frémiat, 3.**

Intimate structure of the cytoplasm in Protozoa; the nature of spherules or *spheridia* (for "spheroplasts"); **Kunstler, 1.**

Les sphérules chromophiles chez les Protozoaires; **Kunstler et Gineste, 5.**

Unispherular nuclei among *Amabae* and Flagellates; **Kunstler, 2.**

Nuclear structure in the Foraminifera; **Lister**.

Minute structure of certain Nummulites; **Boussac**, 2.

Variety of nuclear structure in *Aggregata*; **Moroff**, 2.

Histological study of the malarial parasites; **Pezopoulo** and **Cardamati**.

Structure and chemical constitution of paramylum (*Euglena*); **Bütschli**, 2.

Les sphérules trophoplasmiques des Infusoires ciliés; **Kunstler** et **Gineste**, 6.

(Differenziazioni citoplasmatiche nel *Cryptochilum echini* (Maupas); **Russo** e **Di Mauro**, 2.)

Le *Glancoma pyriformis* et l'organisation de la substance vivante; **Fauré-Frémiet**, 15.

Minute structure of *Opalina dimidiata*; **Kunstler** et **Gineste**, 3.

Histologische Beobachtungen über Paramaecien; **Chainskij**.

Formation of perivacuolar membranes around the food-vacuoles, in Ciliates; **Kunstler**, 3.

Food-vacuoles of Vorticellids, and their alteration during digestion; **Fauré-Frémiet**, 6.

Ueber die Augen der Tiere; **Haselbach**.

#### PHYSIOLOGY. 0411

##### General.

Biological considerations on the life-history of Protozoa; **Calkins**, 1-3.

Beobachtungen über das Leben der Protozoen; **Oelzelt-Newin**.

Das einfachste Tier (ungarisch); **Entz**, 1, 2.

On the vitality of resting cysts and spores of Protozoa, and their resistance under different conditions; **Certes**.

General account of physiology of fresh-water Rhizopods; **Averintzev**, 1.

Physiological considerations concerning *Volvox aureus*; **Stempell**.

##### Metabolism.

Nutrition and its relation to nuclear constitution in *Didinium nasutum*; **Prandl**.

Das Leben ohne Sauerstoff; **Kulagin**.

##### Senescence, recuperation.

(Significance of the meganuclear fragmentation in *Cryptochilum echini* with regard to senile degeneration; **Russo** and **di Mauro**, 1.)

(Recuperation in *Cryptochilum*; **Russo** and **di Mauro**, 3.)

Recuperation in Protozoa; **Calkins**, 6 and 7.

##### Sexual relations.

(Physiological significance of conjugation in the life-cycle of Protozoa; **Calkins**, 7.)

On the conditions which determine conjugation among Infusoria; **Enriques**.

Significance of association in Gregarines; **Woodcock**, 1.

##### Movement.

The mode of movement in *Amoeba* and *Diffugia*; **Dellinger**.

*Amoeba blattae* and amoeboid motion; **Gerould**.

Energy of the ciliary movement of the adoral zone of Vorticellids, and its significance; **Fauré-Frémiet**, 5.

##### Environmental effects; adaptation.

Influence of surface-evaporation upon the distribution of Infusoria in a confined medium; **Robertson**, T. B., 2.

Modifications in living protoplasm (e.g., of *Opalina*), produced by variations in the environmental conditions (in this case in the host); **Kunstler** and **Gineste**, 1.

Physiologische Beobachtungen über Paramaecien; **Chainskij**.

De la persistante vitalité de l'hématozoaire de Laveran dans le cadavre humain; **Gillot**.

Vitalité du Trypanosome de la Dourine dans les conditions artificielles; **Yakimoff**.

On the significance of the asymmetry in *Triposolenia* (adaptive to flotation); **Kofoid**, 4.

Effects of various rays on Trypanosomes; **Ross**, 3.

Ein für *Trypanosoma brucei* spezifisches Serum und seine Einwirkung auf *Trypanosoma gambiense*; **Kleine und Möllers**.

Reactions of Infusoria to chemical and osmotic stimuli; **Robertson, T. B.**, 1.

Galvanotropismus und Galvanotaxis der Ciliata. Mitt. 4-5; **Statkewitsch**.

Chemical and physical effects produced in *Glaucoma* by anaesthetizing; **Fauré-Fremiet**, 4.

The behavior of *Paramoecium*. Additional features and general reactions; **Jennings**.

Der Einfluss verschiedener Narcotica, Gase und Salze auf die Schwimmschwwindigkeit von *Paramoecium*; **Nagai**.

Relation of Infusoria (*Paramoecium* and *Colpidium*) towards certain ions (OH and H) in their medium; **Peters and Rees**.

Reactions of *Stentor coeruleus* to light; **Mast**.

#### DEVELOPMENT AND RE- 0415 PRODUCTION.

Life-cycle of the Protozoa; **Calkins**, 1-3.

##### (a.) SARCODINA.

Life-cycle of *Myxomonas betae*, a new Mycetozoon; **Brzezinski**.

Die Süßwasser-Rhizopoden; **Averintzev**, 1.

Encystment in fresh-water Rhizopods; **Averintzev**, 5.

Plasmodiogenie, eine Vermehrungsart der niedersten Protozoen. Nach den Untersuchungen an mehrkernigen Formen von *Amoeba proteus*; **Stolc**.

Ueber die Fortpflanzung von *Pelomyxa palustris*; **Bott**: Ueber eine eigenartige Form der Fortpflanzung bei *Pelomyxa palustris*; **Korscheit**.

Life-cycle of the Foraminifera; **Lister**.

Development of certain nummulites from young stages; **Boussac**, 2.

##### (b.) SPOROZOA.

Sur l'évolution des Grégarines gymnosporées des Crustacés; **Léger et Duboscq**, 1.

Development (schizogony) of *Aggregata eberthi* [= *Eucoecidium e.*] of the cuttle-fish, in a crab (*Portunus*); **Léger and Duboscq**, 2.

Modes of nuclear division in *Aggregata*; **Moroff**, 2.

*Eleutheroschizon duboscqi*, Sporozoaire nouveau; **Brasil**, 1.

Nonvelles recherches sur la reproduction des Grégarines monocystidées; **Brasil**, 2.

Stages in life-history of *Cystobia chiridotae* and *Hyalosphaera gregarinicola*; **Dogiel**.

Life-cycle of *Diplodina (Cystobia) irregularis*; **Woodcock**, 1.

Étude sur *Taeniozystis mira* Léger, Grégarine métamérique; **Léger**, 3.

Untersuchungen über Coccidien. I. *Adelea zonula* nov. sp.; **Moroff**, 3.

Sur l'évolution des prétendues Coccidies des Céphalopodes; **Moroff**, 1.

Ueber eine Coccidienart, *Orcheobius herpobdellae* nov. gen. nov. sp.; **Schuberg und Kunze**.

Intracorpuseular conjugation in malarial parasites; **Craig**.

Developmental phases of *Leucocytozoon canis*; **Christophers**.

Beiträge zur Entwicklungsgeschichte der Piroplasmen; **Koch**.

Zur Kenntnis von Entwicklung der Babesien (Piroplasmen); **Lühe**, 2.

Sexual phenomena in *Myxobolus pfeifferi*; **Mercier**, 1.

Development of spores in *Myxobolus pfeifferi*; **Mercier**, 2.

Cyst and spores of *Myxidium giardi* n. sp.; **Cépède**, 2.

Spores of *Chloromyxum cristatum* and *C. truttae*, n. spp., and their development; **Léger**, 1, 2.

Pansporoblasts and spores of a new Microsporidian, *Pleistophora macrospora* n. sp.; **Cépède**, 1, 2.

Observations on the life-history of *Pleistophora periplanetae*; **Perrin**, 1, 2.

Sur une Microsporidie du Talitre; **Mercier**, 4.

(Recherches sur les Haplosporidies; **Caulley et Mesnil**.)

Stages in life-cycle of *Anurosporidium*, a new Haplosporidian; **Caulery and Chappellier**.

Sur la biologie des *Amœbidium*; **Chatton, 2**.—Sur l'évolution de l'*Amœbidium recticola*, nouvelle espèce commensale des Daphnies; **Chatton, 3**.

(c.) MASTIGOPHORA.

Development and life-cycle of Haematozoa of salt-water fish, general account as so far known; **Lebailly**.

*Herpetomonas*-like parasites; **Balfour, 1**.

The development of the "*Hepatomonas*" [*Herpetomonas*] of Kala-Azar, from Ichishman - Donovan bodies; **Rogers**.

Modes of development of certain Piscine Trypanosomes in leeches; **Brumpt, 1, 2**.

(Hémoflagellés des poissons d'eau douce. Leur forme dans les sangsues; **Léger, 7**.)

Researches on the life-history of "*Trypanosoma*" [*Spirochaeta*] *balbianii* (Certes); **Perrin, 3**.

Developmental-phases of *Trypanosoma duttoni*, observed in the foetus; **Pricolo**.

Phenomena of division in *T. rotatorium*; **Franca and Athias, 1**.

Multiplication and developmental forms of *T. theileri*; **Luhs**.

Generations- und Wirtswechsel von *Trypanoplasma borreli* Laveran et Mesnil; **Keysseltz**.

Beobachtungen an *Volvox aureus* Ehrbg. (= *minor* Stein); **Stempel**.

Beiträge zur Kenntnis der Peridineen; **Dogiel**.

*Pyrocystis lunula* und ihre Fortpflanzung; **Apstein**.

Les Blastodiniées, ordre nouveau de Dinoflagellés parasites; **Chatton, 1**.

(d.) CILIOPHORA.

(Life-history of Protozoa. IV Death of the A Series (*Paramacium*)—Cycles of generations; **Calkins, 7**.)

Life-history of hypotrichous Infusoria; **Woodruffe**.

Ueber die Konjugation der Infusorien; **Versluys**.

(Frammentazione del macronucleo nel *Cryptochilum echini* (Maupas); **Russo e Di Mauro, 1**.)

(La coniugazione nel *Cryptochilum echini*, Maupas; **Russo e Di Mauro, 3**.)

Konjugation von *Didinium nasutum*; **Prandtl**.

Ungeschlechtliche und geschlechtliche Fortpflanzung der Tintinnen; **Laackmann**.

On sexual differentiation among Vorticellids; **Enriques**.

ETHIOLOGY. 0419

General.

Die Süßwasser-Rhizopoden; **Averintzev, 1**.

Luminosity.

*Pyrodinium bahamense* n. g., n. sp., die Leucht-Peridinee des „Feuersees“ von Nassau, Bahamas; **Plate**.

Plankton.

Zur Charakteristik des Phytoplanktons temperierter Meere; **Schröder, B**.

Fresh-water Mastigophora occurring in the sea; **Lemmermann, 2**.

Protozoan plankton of certain Irish Lakes; **West and West**.

Protozoan plankton from the Elbe in 1904 and 1905 compared; **Volk**.

Protozoa from a churchyard font near Plön; **Zacharias, 2**.

Flagellata, ponds near Bremerhafen; **Lemmermann, 1**.

Various lakelets, East and West Prussia; Protozoa; **Krause**.

Protozoan winter-plankton, 2 lakelets of Southern Finland; **Levander, 1**.

Plankton-Untersuchungen in norwegischen Seen; **Huitfeldt-Kaas**.

Protozoa (mostly Flagellata) from Lake Valkea-Mustajärvi, near Evois; **Levander, 2**.

Lakelets near Lunz, Nieder-Oesterreich, Protozoa; **Woltereck**.

Dinoflagellates, certain lakes in the Eastern Alps; **Brehm** and **Zederbauer**.

Protozoan plankton from various lakes in Istria and Dalmatia; **Car**.

Formation of large slimy masses in the Adriatic Sea, off Trieste, by *Peridinium*; **Corl**.

In ponds of Madrid, *Glenodinium pusillum*; **Fortl**.

Periodicity, variation, and distribution of various plankton-organisms in South European seas; **Zacharias**, 4.

Atlantic Ocean (Planton-Exped. Humboldt-Stiftung), *Atlanticella*, a new Tripyllarian; **Borgert**, 2.

*Medusellidae* from Atlantic Ocean and elsewhere (Plankton-Exped. Humboldt-Stiftung), tables of distribution; **Borgert**, 3.

Atlantic and Pacific Oceans (Plankton-Exped. Humboldt-Stiftung), *Tuscaroridae*; **Borgert**, 1.

Atlantic Ocean ("Valdivia"-Expedition), Dinoflagellates; **Karsten**.

Indian and Atlantic Oceans, *Acanthomeiridae*; **Popofsky**, 1.

Die Acantharia der Plankton-Expedition. Th II: *Acanthophracta*. (Ergebn. Plankton-Exped. Humboldt-Stiftung); **Popofsky**, 2.

Eine Anzahl Tintinnen aus dem Plankton der Bucht von Rio de Janeiro; **Bresslau**.

San Diego region, *Heterodinium* and *Triposolenia*, new Dinoflagellates; **Kofoif**, 1, 2.

## Psychology.

Ueber verständiges Tun niederer Tiere [Radiolarien]; **Hensen**.

## Commensalism.

Le commensalisme spécifique chez les Vorticelles d'eau douce; **Fauré-Frémiet**, 10.

Le commensalisme des *Opercularia*; Le facteur mouvement et les facteurs de la spécificité; **Fauré-Frémiet**, 11, 12.

## Parasitism.

### General.

Wirtswechsel und Vererbung bei Protozoeninfektionen; **Loewenthal**.

Urtierchen als Parasiten und Krankheitserreger; **Thesing**.

### Plantae.

In the beetroot, tissues of all the members, both intra- and inter-cellular, *Myxomonas betae* n. g., n. sp.; **Brzezinski**.

### Sporozoa.

In *Cystobia chiridotae*, *Hyalosphaera gregarinicola* n. g., n. sp.; **Dogiel**, 1.

### Echinodermata.

In respiratory trees and body-cavity of *Cucumaria pentactes* and *C. planei*, *Diplodina minchinii*; **Woodcock**, 1.

*Cystobia chiridotae* nov. sp.; **Dogiel**, 1.

### Rotifera.

In a South African Rotifer, *Bertramia kirkmani* sp. nov.; **Warren**.

### Platyhelminthia.

In sporocysts of a Trematode ("*Cercaria*" [*Brachycoelium*] *lutea*), itself parasitic in *Donax*, a new Haplosporidian, *Aureosporidium*; **Caulery** and **Chappellier**.

Monocystidée nouvelle de *Pheretima*; **Hesse**, 1.

### Chaetopoda.

(Sur un nouveau *Myxocystis* des Oligochètes; **Hesse**, 3.)

### Hirudineæ.

Expériences relatives au mode de transmission des Trypanosomes et des Trypanoplasmes par les Hirudineées (*Hemiclepsis*); **Brumpt**, 3.

In testes of *Nephele vulgaris* (*Herpobdella atomaria*), a new Coccidian, *Orcheobius herpobdellae*; **Schuberg** and **Kunze**.

### Crustacea.

Parasitic in the eggs of Copepods, *Gymnodinium parasiticum* sp. n.; **Dogiel**, 2.

In various Copepods, intestine, *Blas-todinium*, a new Dinoflagellate; **Chatton, 1.**

Sur un Amœbien parasite des embryons de *Pelto-gaster curvatus* Kossm; **Cauillery.**

Sur une Microsporidie du Talitre (*Amphipoda*); **Mercier, 4.**

Ectoparasitic on *Eupagurus* spp., *Dea-drosomides*, a new Acinetarian; **Collin.**

Sur l'évolution des Grégarines gymnosporées des Crustacés; **Léger et Duboscq, 1.**

In *Portunus depurator*, forming coccidic cysts, *Aggregata* (= *Eucoccidium*) of the cuttle fish; **Léger and Duboscq, 2.**

Sur quelques Microsporidies parasites des Crustacés; **Pérez, 2 and 3.**

Ovaries of crab attacked by *Microsporidia* (*Thelohania moenadis*); **Pérez, 1.**

#### Myriapoda.

*Eleutheroschizon duboscqi*, sporozoaire nouveau parasite des *Scoloplos armiger* O. F. Müller; **Brasil, 1.**

#### Insecta.

(Myxosporidies nouvelles des Insectes; **Hesse, 2.)**

*Gregarina socialis* sp. n., from larvæ of *Eryx ater*; **Léger, 3.**

Fat bodies of *Blaps mortisaga* (larva) *Adelea zonula* n. sp.; **Moroff, 3.**

*Pleistophora periplanetae* from Malpighian tubules of *Periplancta orientalis*; **Ferrin, 1, 2.**

Sur le second hôte (*Lynchia maura*) de l'*Hæmoproteus* (*Halteridium*) du pigeon; **Sergent et Sergent, 3.**

Flagellate parasite (probably *Crithidia*) in *Culex fatigans*; **Ross, 1.**

Parasites of mosquitoes (*Culex*) in India; **Ross, 2.**

In *Culex pipiens* and *Stegomyia fasciata*, females, *Herpetomonas algeriense* n. sp.; **Sergent, E. and E., 2.**

*Herpetomonas*-like parasites in fleas (*Pulex cleopatrae*); **Balfour, 1.**

Relation of *Trypanosoma gambiense* and other Trypanosomes to *Glossina palpalis*; **Minchin, Gray and Tulloch.**

Expériences d'infection de trypanosomiase (probablement *T. gambiense*) par des *Glossina palpalis* infectées naturellement; **Cazalbou.**

Tsetse-flies and Trypanosomes, ticks and *Piroplasmata*; **Koch, 2.**

Tsetse-flies and "fly-Trypanosomes"; **Novy.**

On destruction of the ovary and castration in Termites, due to parasitic Protozoa; **Brunelli.**

#### Arachnida.

Alternate host of the Haemogregarine of *Testudo ibera* is probably *Hyalomma syriacum* (*H. affine*); **Popovici-Bazosanu.**

In dog-tick (*Rhipicephalus sanguineus*), *Leucytozoon canis*; **Christophers.**

#### Mollusca.

Un nouveau *Nematopsis* parasite des moules de la Méditerranée; **Léger, 4.**

In *Octopus* sp., *Eucoccidium jacqueti* n. sp.; **Moroff, 1.**

#### Pisces.

In African fish, *Bageus bayard*, *Lyuodontis schal*, and *Mugil* sp., Trypanosomes, spp. incert.; **Neave.**

In an African fish (*Clarias angolensis*), Haemoflagellates; **Dutton, Todd and Tobey, 3.**

New Myxosporidian (*Henneguya acerinae*) from gills of *Acerina cernuae*; **Schröder, 3.**

In *Alosa fluta*, gills and branchial tissue, *Caprina aurantiacea*, a new Ciliate, and *Branchiophaga alosicida*, a new Myxosporidian; **Mazzarelli, 1 and 2.**

In kidney of an eel (*Anquilla vulgaris*), *Myxidium giardi* n. sp.; **Cépède, 2, 3.**

In an eel (*Anquilla vulgaris*?), a new *Haemogregarina*; **Laveran, 3.**

In *Cobitis barbatula*, kidneys and bladder, *Myxidium barbatulae* and *Henneguya legeri* n. spp.; **Cépède, 3.**

In muscular wall of abdomen, *Cobitis barbatula*, *Pleistophora macrospora* n. sp.; **Cépède, 1, 2.**

In head of *Gadus aeglefinus*, a new species of *Myxobolus*; **Auerbach**.

In flounder (*Pleuronectes flesus*), gall-bladder, *Leptotheca agilis*; **Robertson, M., 2**.

In the following fish, new species of *Trypanosoma*, viz.: *Barbus fluviatilis*, *T. barbi*; *Perca fluviatilis*, *T. percae*; *Acerina cernua*, *T. acerinae*; *Phoxinus phoxinus*, *T. phoxini*; *Cottus gobio*, *T. langeroni*; *Scardinius erythrophthalmus*, *T. scardinii*; *Leuciscus* sp., *T. leucisci*; *Gobio fluviatilis*, *T. elegans*; *Squalius cephalus*, *T. squalii*; **Brumpt, 1**.

In the following fish, new species of *Trypanoplasma*, viz.: *Barbus fluviatilis*, *T. barbi*; *Abramis brama*, *T. abramidis*; *Salmo fario*, *T. truttac*; **Brumpt, 2**.

In gall bladder of tench (*Tinca*), *Chloromyxum cristatum* n. sp.; **Léger, 2**.

In *Trutta fario*, gall-bladder, and conn. tissue, *Chloromyxum truttac* n. sp.; **Léger, 1**.

(Myxosporidies des Poissons des Alpes françaises; **Cépède, 5**.)

Deux nouvelles Myxosporidies parasites des Poissons d'eau douce; **Léger, 6**.

*Trypanoplasma borreli*, in relation to its hosts (fish and leeches); **Keysseltz**.

#### *Amphibia*.

In a Somali toad (*Bufo reticulatus*), *Trypanosoma somalensens* n. sp.; **Brumpt, 2**.

In *Rana esculenta*, *Trypanosoma elegans* and *T. undulans* n. spp.; **Franca and Athias, 2**.

The host of *Haemogregarina neireti* is *Rana mascareniensis*; **Laveran, 1**.

#### *Reptilia*.

Sur une Hémogrégarine karyolytante d'un lézard (*Mabuia vittata*); **Nicolle et Comte, 2**.

Sur une Hémogrégarine de *Varanus griseus*; **Nicolle et Comte, 3**.

Protozoaires parasites des Vipères (*Vipera aspis*); **Léger, 5**.

In an African python, *Trypanosoma pythons* sp. n. [really a *Haemogregarine*]; **Robertson, M., 1, 2**.

#### *Aves*.

In blood of an African stork (*Leptoptilus*), a *Halteridium* regarded as new; **Hirst**.

(N-9720 c)

In African birds, vultures (*Neophron perenopterus*) shrike (*Laniarius cruentus*), *Trypanosomes* spp. incert.; **Neave**.

In guinea-fowl (*Numida ptilorhyncha*), a "*Haemamoeba*" resembling "*H.*" (*Leucocytozoon*) *ziemanni*; **Neave**.

#### *Mammalia*.

Protozoan parasite in polymorphonuclear leucocytes of a dog; **Gerrard**, also **Wenyon**.

*Trypanosomiasis* beim Schweine (*Trypanosoma suis* n. sp.); **Ochmann**.

*Trypanosoma theileri* in oxen in Trans-Caucasia; **Luhls**.

*Trypanosomes* and new intracorpuseular parasites in a mole; **Thomson**.

A *Haemogregarine* from a Mammal (*Jaculus, jerboa*); **Balfour, 3**.

A *Leucocytozoon* from the rat; **Balfour, 4**.

In white rats (*Mus rattus*) *Piroplasma muris* n. sp.; **Fantham**.

In rats (*Mus rattus*), leucocytes, a *Leucocytozoon*; **Adie**.— In *Mus decumanus*, a *Leucocytozoon* (perhaps *L. ratti*); **Cleland**.

In white blood-corpules of palm-squirrels, *Sciurus palmarum* (= *Funambulus pennanti*), *Leucocytozoon funambuli* n. sp.; **Patton**.

In an Antelope, *Trypanosoma theileri*; **Dutton, Todd and Tobey, 1**.

Occurrence of endoglobular parasites ("ringförmige") and *Trypanosomes* in bats (*Vesperugo pipistrellus*); **Kisskalt**.

*Haematozoa* in a bat (*Vespertilio capensis*); **Bowhill**.

In *Vesperugo kuhlii*, "*Achromaticus*" *vesperuginis*; **Gonder**.

*Haematozoa* of bats; **Schingareff**.

In a Monkey (*Cercopithecus*) a *Trypanosome* sp. incert.; **Dutton, Todd and Tobey, 1**.

Remarks on parasitism and symbiosis of the pathogenic *Amæbae*; **Musgrave and Clegg**.

From typhus stools, a new *Balantidium*; **Krause**.

Un cas de présence des Flagellés dans les excréments humains; **Zaleski**.

## VARIATION, PHYLOGENY. 0423

## Variation, etc.

Les cultures de Protozoaires et les variations de la matière vivante; **Kunstler et Gineste, 4.**

Variation and correlation in *Chilomonas* under favourable and unfavourable conditions; **Pearl, 2.**

*Paramacium aurelia* and mutation (*P. caudatum*, a variant of *P. a.*); **Calkins, 4, 5.**

Variation and correlation in conjugating and non-conjugating individuals of *Paramacium caudatum*; **Pearl, 1.**

A case of monstrosity in *Stentor coerulesus*; **Fauré-Fremiet, 14.**

Experimental variation of *Vorticella microstoma* (into "*V. lians*"; **Fauré-Fremiet, 13.**

On the abundance and variety of Radiolarian species, as bearing upon the Darwinian theory; **Zacharias, 5.**

## Classification and Phylogeny.

Evolution and phylogeny of the *Nummulitidae*; **Douvillé, 3.**

Phylogeny of *Nummulites*—2 chief types; **Boussac, 3.**

Classification and phylogeny of the *Acanthophracta*; **Popofsky, 2.**

Relationship of *Amoebidium* is to the Thallophytes (*Fungi*), rather than to the Sporozoa; **Chatton, 2.**

Phylogeny of Trypanosomes discussed; **Woodcock, 2.**

On the origin of the *Urcolaridae*; **Fauré-Fremiet, 2.**

## DISTRIBUTION (GEOGRAPHY).

0427

## Geographical.

Geographical Distribution of fresh-water Rhizopods; **Averintzev, 1 and 5.**

## Europe.

Lough Larne and District, Foraminifera; **Gough, 1 2.**

North Sea, a new Tripylarian; **Brock, 1.**

Protozoa on the ice-floes of the North Polar sea; **Nansen.**

Foraminifera from the bottom samples and the mud from the ice-surface in the North Polar sea; **Kiær, 1.**

In the Marne (Rheims), *Ophryidium versatile*; **Topsent.**

Upper Rhine district (Rheinpfalz, Heidelberg), Protozoa, incl. *Pleodorinus illinoisensis*, *Cyclonexis annularis*, *Placocysta spinosa*, and *Paulinella chromatophora*; **Lauterborn, 2.**

Protozoa from large Moritzburg pond, near Dresden; **Schorler, Thallwitz and Schiller.**

East-Prussia, moss bogs and swamps, Rhizopods; **Sellnick.**

Rhizopoda from lakelets in the Massif of Ruitor, Graian Alps; **Monti.**

Protozoa from Lake of St. Blaise (Neuchâtel); **Thiébaud.**

Protozoan fauna from ponds in the Jura (Neuchâtel); **Thiébaud and Favre, 1 and 2.**

Lake of Lucerne, Protozoa; **Zschokke.**

A new Dictyochid from the Adriatic, *Hermesinum adriaticum*, n.g., n.sp.; **Zacharias, 1.**

Isle of Delos, Grecian Archipelago, Recent Foraminifera; **Sidebottom.**

## Asia.

Aralsee, Foraminifera; **Kiær, 2.**

Turkestan, Protozoa; **Daday, 1.**

Indian Ocean, off Ceylon, Foraminifera; **Dakin.**

Mongolia, Protozoa; **Daday, 2.**

Ind. Néerl. Or., Xenophyophoren der Siboga-Expedition; **Schulze, 1.**

## Australasia.

Foraminifera obtained off Great Barrier Island, New Zealand; **Chapman.**

(Australian sands, Foraminifera; **Jensen.)**

Foraminifera von Laysan und den Chatham-Inseln. (Ergebnisse einer Reise nach dem Pacific. Schauinsland 1896-1897); **Rhumblor.**

## America.

Nantucket, fresh-water Rhizopods **Cushman.**

Iowa, Protozoa; **Edmondson.**



San Diego region, Dinoflagellata; **Kofoid, 1, 2.**

Paraguay, fresh-water microfauna; **Daday, 4.**

#### Oceanic.

Atlantic, Indian and Pacific Oceans, *Xenophyophora* from the "Albatross" Expedition; **Schulze, 2.**

"Valdivia" deep-sea expedition (chief oceanic regions), Tripylaria; **Häcker, 1-4.**

Pacific Ocean, coasts of New Pomerania, *Acanthometridae*; **Mielck.**

### Geological.

#### General.

*Nummulites* characteristic of different geological basins and horizons; **Douvillé, 11, 2 and 3.**

Succession of *Lepidocyclus* in the Piedmontese "basin"; **Douvillé, R. and Prever.**

On the Value of *Lepidocyclus* and *Miogypsina* in the determination of stratigraphical horizons; **Sacco, 1.**

Distribution, geographical and geological, of *Lepidocyclus marginata* (Michel.), *sens. incl.*; **Silvestri, 2.**

Distribution, geographical and geological, of *Textularia gibbosa* d'Orb.; **Silvestri, 3.**

Geological and geographical distribution of *Fusulina*-species; **Yabe.**

Birregurra and Campbell's Point (near Geelong), Australia, horizon not given, Foraminifera; **Mulder, 1, 2;** also (locality not given); **Brady and Mulder.**

Notes on the geological distribution of Foraminifera, Radiolaria, Silicoflagellata and *Coccolithophoridae*; **Stromer.**

#### Quaternary.

Pleistocene clays and sands, Isle of Man, Foraminifera; **Reade and Wright.**

Pleistocene, Maryland, Foraminifera; **Clark.**

#### Tertiary.

Sur quelques gisements nummulitiques de Madagascar; **Douvillé, 2.**

In "Viseen" limestones, Namur, a new order of fossil organisms, *Spongiostrumaceae*; **Gürich.**

(N-9720 c)

Geological distribution of *Orthophragminae* and *Orbitoideae*, as bearing upon the correct horizon of the "Flysch"; **dal Lago.**

Foraminiferenfauna der Tertiärschichten von Biarritz; **Liebus.**

Nummulitic zones (Tertiaries), Gassino and Biarritz, Foraminifera; **Prever.**

Tertiaries, Piedmont, Foraminifera; **Sacco, 2.**

Tertiary, Kienthaler Alps, *Globigerina*-ooze; **Gerber.**

Lower Tertiary ("Kalkmergel"), King William's Land, (German New Guinea), Radiolaria; **Haupt.**

Miocene and Pliocene ("trubi"), Bonfornello (near Palermo), Foraminifera; **Silvestri, 4.**

Upper Miocene, Batangas Province, (Philippines), *Orbitoides martini* sp. n.; **Smith, 2.**

Miocene, Monte Titano (San Marino), Foraminifera; **Nelli.**

Binangonan limestone (Miocene), Manila, *Orbitoides*; **Smith, 1.**

Oligocene, Apennines (Modena), "*Orbitoides gumbelii*" and other Foraminifera; **Silvestri, 1.**

Oligocene ("Septarienton"), Wonsheim, (Rhenish Hesse), Foraminifera; **Stoltz.**

Oligocene, Bavaria, Foraminifera; **Stuchlik.**

Eocene and Miocene, Monte Sirente, Central Apennines, *Nummulitidae*; **Cassetti.**

Eocene and Miocene, S. Marino, Foraminifera; **Trabuoco.**

Eocene, Alicanto, *Nummulitidae*; **de Cisneros.**

Eocene *Lepidocyclus*, doubts with regard to alleged existence; **Douvillé, R., 1.**

Eocene (Bartonian), Prahova (Romania), Foraminifera; **Mrazek.**

Middle Eocene, "Plana de Vich," Spain, *Nummulites*; **Almera, 1, 2.**

Eocene, Sicily, *Lepidocyclus* n. spp.; **Checchia-Rispoli, 1.**

Eocene, Capo S. Andrea (Taormina), Foraminifera; **Checchia-Rispoli, 2.**

Eocene, New Caledonia, *Nummulitidae* and *Orbitoideae*; **Deprat.**

Eocene (Nummulitic limestones), Madagascar, *Nummulites* and *Orthophragmina*; **Douvillé, R. 2.**

Eocene, Rieti, *Nummulitidae*; **Lotti.**

Eocene, Beaulieu, occurrence of *Nummulites*; **Maurly and Gaziot.**

Eocene (Nummulitic zones), Valleys of the Gurk and Görttschitz, (Austria), *Nummulitidae*; **Redlich.**

Eocene, Basin of Lake Trasimeno, Foraminifera; **Ristori.**

Eocene, Penisola Salentina (provincia di Lecce), *Nummulitidae*; **di Stefano.**

Mesozoic.

Upper Cretaceous, Eastern Rhaetikon, *Globigerinae*; **v. Seldnitz.**

Upper Cretaceous, Upper Engadine, *Globigerinae*; **Zoeppritz.**

Cretaceous, Persia, Foraminifera; **Douvillé, H., 6.**

Cretaceous, Tripoli, *Omphalocyclus macropora*; **Krumbeck.**

Cretaceous, Sac and Ida Counties, Iowa, Foraminifera; **MacBride.**

Cretaceous, Tarahuma (Tripoli), *Orbitolina* n. spp.; **Parona.**

Cretaceous, (Lower "Campanien"), South-East of France, Foraminifera; **Repellin.**

Lower Lias, near Gloucester, Foraminifera; **Richardson.**

Palaeozoic.

Cambrian, near Shantung, China, *globigerina* (?) *mantoensis* n. sp.; **Walcott.**

### III.—SYSTEMATIC. 0431

#### PROTOZOA, GENERAL.

Microscopic fresh-water Protozoa from Mongolia; **Daday, Math. Termt. Ért., 24, (34-77).**

The Protozoa of Iowa. A study of species known to occur in the waters of this state; **Edmondson, Davenport, Iowa, Proc. Acad. Sci., 11, (1-124, pls.).**

General morphology of the higher Protozoa; **Kunstler and Gineste, Paris, C.-R. Acad. Sci., 142, (291-296).**

Protozoa on the ice-floes of the North Polar Sea; **Nansen, Norw. North Polar**

**Exp. Scientific Results, (Kristiania), 5, No. XVI, 1906, (22, 8 pls.).**

Protozoa in plankton of certain Irish Lakes. **West and West, Dublin, Trans. R. Irish Acad., 33 (B), (77-116, pls. vi-xi).**

#### 1. MYCETOZOA.

General account (continued); **Temière, Microgr. Prépar. 14, (76-79, 249-252, pls. viii, xxviii).**

*Leptophrys*, (syn. *Vampyrella* spp.), notes on the genus; **Kepner, Amer. Nat., 40, (335-342, text figg.).**

*Myxomonas* gen. n., (allied to *Plasmodiophora*) *M. betae* sp. n.; **Brzezinski, Kraków, Bull. Int. Acad., 1906, (139-202, pls. 2-6).**

#### 2. SARCODINA (=GYMNOMYXA, RHIZOPODA, sens lat.).

(a) *Amoebae* (= *Lobosa, Rhizopoda sens str.*).

Rhizopoda Testacea, classification and systematic account [in Russian]; **Averintzev, St. Peterburg, Trav. Soc. Nat., 36, ii, (121-346, pl. v).**

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Fresh-water Rhizopods of Nantucket; **Cushman, Amer. Nat., 40, (371-373).**

*Lobosa* Testacea, detailed classification and description (from Averintzev's Memoir); **Schoeteden, Ann. Biol. lacustre, 1, (327-382, 62 figg.).**

*Amæba*, Allgemein; **Entz, Termt. Közl., 38, (257-276, 12 Fig.);** also, publ. sep. Budapest (Heller), 1906, (38, 12 figg.).—*A. blattae* and other *Amæbae*, description of movement; **Gerould, Science, (N. ser.), 23, (707-710).**—*A. paedophthora* sp. n., from eggs of *Pelto-gaster*; described; **Caullery, Paris, C.-R. soc. biol., 61, (266-268, 4 figs.).**—*A. protens*, plasmodiogeny; **Stolo, Arch. EntwMech., 24, (111-125).**

*Arella mitrata* and *A. vulgaris*, structural details of test; CUSHMAN and HENDERSON, Amer. Nat. **40**, (797-809, text-figs.).

*Averintzevia* gen. n. (for *Helcopera cyclostoma*; SCHOUTEDEN, Ann. Biol. lacustre, **1**, (357).

*Clypeolina marginata*, described; PENARD, Arch. Protistenkunde, **8**, (66-85, 10 text-figs.).

*Coryjeia penardi* sp. n. (= *C. coronata* var. *simplex* Penard), Gouv. Archangelsk; AVERINTZEV, St. Peterburg, Trav. Soc. nat., **36**.

*Cucurbitella longula* sp. n., Gouv. Novgorod; AVERINTZEV, St. Peterburg, Trav. Soc. nat., **36**, (177, figg. 71 and 72).

*Disflugia septentrionalis* sp. n., Russland; AVERINTZEV, Arch. Protistenkunde, **8**, (89); also, *id.*, St. Peterburg, Trav. Soc. Nat. **36**, ii, (208, figg. 73-75).

*Entamoeba coli* and *E. histolytica*, described; specificity of these 2 forms as regards harmlessness or pathogenicity questioned; McSGRAVE and CLEGG, Philippine Journ. Sci., **1**, (909-950, 10 figg.).—*E. histolytica*, the *Amoeba* of dysentery, general account; RUGE, Handbuch der Tropenkrankh., hrsg. v. C. Mense, Bd III, 1, (1-21, 3 Taf.).

*Lecquereusia angulata*, *L. extranea* spp. nn., Archangelsk; AVERINTZEV, Arch. Protistenkunde, **8**, (87-88). St. Peterburg, Trav. Soc. Nat., **36**, (172, figg. 67, 68).

*Nebela spumosa* (238, fig. 79), *N. maxima* (239, figg. 76-78), *N. pulcherrima* spp. n.; Archangelsk; AVERINTZEV, St. Peterburg, Trav. Soc. Nat., **36**, ii; also *id.* Arch. Protistenkunde, **8**, (90-93).

(*Paulinella chromatophora*, note on habits, structure and American occurrence; KEPNER, Biol. Bull., **9**, (128-129, with text-fig.))

*Pelomyxa palustris*, Bau und Fortpflanzung; BOTT, Arch. Protistenkunde, **8**, (120-158, mit 2 Taf.); also, Zool. Anz. **29**, (803-806).—*P. p.*, Fortpflanzung; KORSCHNER, Natw. Rdsch., **21**, (503-501).

*Pyxidicula invisitata* sp. n., Archangelsk; AVERINTZEV, Arch. Protistenkunde, **8**, (86); also, *id.*, St. Peterburg, Trav. Soc. Nat., **36**, (145, figg. 61-64).

*Sexangularia* gen. n., *S. parvula* sp. n., Gouv. Archangelsk; AVERINTZEV, St. Peterburg, Trav. Soc. nat., **36**, ii, (163, figg. 65-66).

## (b) Foraminifera.

For lists of occurrence, etc., see under Geological Distribution.

†Foraminifera of the Salem limestone; BEEDE, Indiana, Rep., Dept. Geol. Nat. Res. **30**, (1201-1218, with pl.).

Sur la formation du réseau des Nummulites réticulées; BOUSSAC, Paris, C.-R. Acad. sci., **142**, (243-244).

Foraminifera, Great Barrier Island, New Zealand; CHAPMAN, Wellington, Trans. N. Zeal. Inst., **38**, (76-112, pl. 3).

Foraminifera, Indian Ocean, off Ceylon; DAKIN, Roy. Soc. Rep. Ceylon Pearl Fish. **5**, (225-242, 1 pl.).

†Sur quelques gisements nummulitiques de Madagascar. (Paléontologie de Madagascar II.); DOUVILLÉ, R. Ann. Paléont., **1**, (61-68, 1 fig.).

Foraminifera of Larnè Lough and District; GOUGH, Sci. Investig., Dept. Agric. and Fisheries, Ireland, **3**, (10, 1 pl.), and **4**, (12).

(Foraminifera, Australian sands; JENSEN, Sydney, N.S.W., Proc. Linn. Soc., **29**, (810-831, 1 pl.))

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†Foraminifera, Tertiary layers, Biarritz; LIEBUS, Wien, Jahrb. geol. Reichsanst., **56**, (351-366, 1 pl., 8 text-figg.).

Foraminifera, general account of life-history; LISTER, Nature, **74**, (400-406).

Foraminifera von Laysan und den Chatham-Inseln. (Ergebn. einer Reise nach dem Pacific); RUMBELER, Zool. Jahrb., Syst. **24**, (21-80, 4 pls.).

†Foraminifera from Lower Lias, Gloucester; RICHARDSON, Gloucester, Proc. Cotteswold Nat. F. Cl., **15**, (261).

Recent Foraminifera, Island of Delos (Graecian Archipelago); SIDEBOTTOM, Manchester, Mem. Lit. Phil. Soc., **50**, No. V, (18, 2 pls.).

†Ricerche strutturali su alcune forme dei trubi di Bonfornello (Palermo);

SILVESTRI, Roma, Mem. Acc. Nuovi Lincei, **22**, (235-276, 14 figg.).

*Adelosina laysanensis* sp. n., Laysan; RUMBLER, Zool. Jahrb., Syst., **24**, (50, figs. 37, 38).

†*Ataxophragmium laceratum*, Tertiaries, Biarritz; LIEBUS, Wien, Jahrb. Geol. RchsAnst., **56**, (358, fig. 6).

†*Bolivina lata* nom. nov., Tertiaries, Biarritz; LIEBUS, Wien, Jahrb. Geol. RchsAnst., **56**, (357, fig. 2).

*Brachysiphon* gen. n., near *Rhabdamina*, (83), *B. corbuliformis* sp. n., (84, pl. 3, figs. 2 and 3), Gr. Barrier Id., N.Z.; CHAPMAN, Wellington, Trans. N. Zeal. Inst., **38**.

†*Cassidulina oblonga* (= *C. globosa* ?), Tertiaries, Biarritz; LIEBUS, Wien, Jahrb. Geol. RchsAnst., **56**, (357, fig. 5).

†*Clavulina gaudryinoides*, (249, figg. 3 and 4), *C. rudis* (259, figg. 8-10), Miocene and Pliocene ("trubi"), Bonfornello; SILVESTRI, Roma, Mem. Acc. Nuovi Lincei, **22**.

†*Dentalina pauperata*, Tertiaries, Biarritz; LIEBUS, Wien, Jahrb. geol. RchsAnst., **56**, (354, fig. 1).

*Discorbina araucaria*, Aralsee; KLER, Taschent, Izv. Turk. Otd. Russ. Geogr. Obsè., **4**, (27-29).—*D. irregularis* sp. n. Chatham Is.; RUMBLER, Zool. Jahrb., Syst., **24**, (70, figs. 57-58).

†*Ellipsoidina*, and related forms, comparative notes on; SCHUBERT, Centralbl. Min., **1906**, (641-645).

†*Ellipsopleurostomella russitanoi* sp. n., Miocene and Pliocene ("trubi"), Bonfornello; SILVESTRI, Roma, Mem. Acc. Nuovi Lincei, **22**, (257, fig. 7).

†*Fusulina*, synopsis of the subgenera of; YABE, Tokyo, J. Coll. Sci., **21**, Art. 5, (1-36, with 3 pls.).

*Fusulinidae*, structure du test; DOUVILLÉ, II., Paris, C.-R. Acad. sci., **143**, (258-261).

†*Globigerina* (?) *mantoensis* sp. n., Cambrian, Shantung, China; WALCOTT, Washington, Smithsonian Inst., Nation. Mus., Proc., **29**, (10).

*Hauerina complanata* sp. n., Ceylon; DAKIN, Roy. Soc. Rep. Ceylon Pearl Fish., **5**, (231, fig. 7).

†*Heteroclypeus* nom. nov. (for *Heterostegina cycloclypeus*), eine Uebergangsform zwischen *Heterostegina* und *Cylo-*

*clypeus*; SCHUBERT. Centralbl. Min., **1906**, (640-641).

*Hyperammuna calcilega* sp. n., Laysan; RUMBLER, Zool. Jahrb., Syst., **24**, (24, figs. 1, 2).

†*Karveria lithothamnica*, Tertiaries, Biarritz; LIEBUS, Wien, Jahrb. Geol. RchsAnst., **56**, (361, fig. 8).

(*Lagena laevis*, Montagu var., Wollongung; JENSEN, Sydney, N.S.W., Proc. Linn Soc., **29**, (814, pl. xxvi, fig. 2).)  
*L. fasciata* var. *carinata* var. n. (7, pl. I, fig. 17), *L. inaequilateralis* var. *semicarinata* var. n., (10, pl. 2, fig. 7), *L. irregularis* sp. n., (11, pl. 2, fig. 8), *L. orbignyana* (?) var., *falcata* var. n., (13, pl. 2, fig. 12), Grecian Archipelago, SIDEBOTTOM, Manchester, Mem. Lit. Phil. Soc. **50**, No. V.

†*Lepidocyclina ciofaloi* (A) sp. n. (89, pl. 3, figs. 4, 5), *L. himerensis* (B), sp. n. (91, pl. 3, figs. 1-3), *L. planulata* (A), sp. n. (90, pl. 3, figs. 6-8), Eocene, Sicily, CHECCIA-RISPOLI, Riv. Ital. Paleont., **12**.—*L. marginata* (Michelotti), distribution, geogr. and geol., and enumeration of forms included in this term; SILVESTRI, Roma, Atti Acc. Pont. Lincei, **59**, (146-166, 1 fig.).—*L. spp. nn.* Eocene, Penisola Salentina, noted; DI STEFANO, Roma, Rend. Acc. Lincei, **15**, (1), (425).—*L.*, observations sur quelques travaux relatifs au genre; DOUVILLÉ, H. Feuille jeunes naturalistes, Paris, **36**, 1906, (169-174).

†*Lingulina costata*, Miocene and Pliocene ("trubi"), Bonfornello; SILVESTRI, Roma, Mem. Acc. Nuovi Lincei, **22**, (263, fig. 11).

†*Loftusia morgani* sp. n., (376), *L. persica* (251), Cretaceous, Persia; DOUVILLÉ, H. Mission de Morgan en Perse. Partie IV. Paléontologie. Mollusques fossiles, Paris, 1901, (380, av. pl.).

*Miliolidae*: illustrazione di specie orbignyane istituite nel 1826; FORNASINI, Bologna, Mem. Acc. sc., (Ser. 6), **2**, (59-70, 4 tav.).

*Miliolina schauinslandi* (41, figs. 20, 21), *M. deplanata* (42, fig. 23), *M. arenacea* (43, figs. 24, 25), *M. cribrostoma* (47, fig. 32), *M. ferox* (47, figs. 29-31), Laysan, sp. n.; RUMBLER, Zool. Jahrb., Syst., **24**.

†*Neoschwagerina* subgen. n. (of *Fusulina*) for *N. craticulifera*; YABE, Tokyo, J. Coll. Science, **21**, Art. 5, (3, pl. 1).

*Nodobacularia irregularis* sp. n., LAYSAN; RUMBLER, Zool. Jahrb., Syst., 24, (38, fig. 15).

*Nodosaria cylindracea* sp. n., CEYLON; DAKIN, Roy. Soc. Rep. Ceylon Pearl Fish., 5, (235, fig. 8).—*N. scalaris*, BATSCH, var., WOLLONGONG; JENSEN, Sydney, N.S.W., Proc. Linn. Soc., 29, (816, pl. xxiii, fig. 1).

†*Nummulites biarritzensis*, (65, figs. 1, 2, 6-8, 13-15), *N. carteri*, (66, figs. 9-12, 17, 19-20), Eocene, Madagascar; DOUVILLÉ, R., Paris, Ann. Paléont., 1.—*N.*, 2 distinct types, *N. laevigatus* LÜCK. + *N. brongniarti* and *N. fabianii* + *N. laevigatus* d'Arch.; BOUSSAC, Paris, C.-R. Acad. Sci., 142, (243-244), and Bull. Soc. géol., (Ser. 4), 6, (98-100, pl. 3).—*N. fabianii*, Prever, morphology and development; BOUSSAC, Paris, Bull. Soc. géol., (4), 6, (88, pl. 1, pl. 3, fig. 6).—*N.* spp., characteristic of different geological basins and horizons; DOUVILLÉ, H., Paris, Bul. Soc. géol. (Ser. 4), 6, (13-42, with tables).

†*Nummulitidae* "Priabor a Schichten" and parallel zones, systematic comparison of, in regard to accurate determination of the horizon of these strata; OPPENHEIM, Berlin, Zs. d. geol. Ges., 58, (156-180).

†*Omphalocyclus macropora*, Cretaceous, Tripoli; KRUMBECK, Palaeontographica, 53, (82-84, pl. 7, fig. 1).

†"*Orbitoides gumbelii*" Seg., Oligocene, Apennines, description and synonymy; SILVESTRI, Roma, Atti Acc. Pont. Lincei, 59, (33-39, 2 figg.).—*O. richthofeni* sp. n., Binangonan limestone, Manila; SMITH, Philippine Journ. Sci., 1, (205, fig. 1, pl. 1).—*O. martini* sp. n., Upper Miocene, Batangas Province, (Philippines); SMITH, T.c., (628, pl. 4, figs. 6, 7, 9).

†*Orbitolina paronai*, *O. bochini*, and *O. kiliani* spp. nn. (Prever?), Cretaceous, Tarahuna (Tripoli), noted; PARONA, Roma, Rend. Acc. Lincei, 15 (i), (163-164).—*O.* spp., structure of shell; DOUVILLÉ, H., Paris, Bul. soc. géol., (ser. 4), 4, (653-661, av. pl.).

†*Orthophragmina umbilicata* sp. n. (197, pl. 16, figg. 2-11), var *fournieri* var. n. (501, pl. 17, fig. 12), *O. javana* var. *minor*, (502, pl. 17, figg. 13, 14), *O. scella*, (504, pl. 17, figg. 15-18), *O. dispansa*, (505, pl. 17, fig. 19), *O. varians*,

(505, pl. 18, figg. 20-22), *O. pentagonalis* sp. n. (507, pl. 18, figs. 24, 25, pl. 19, fig. 27). *O. stella* (508, pl. 19, fig. 28), *O. lanceolata* (509, pl. 19, figg. 29, 30), Eocene, New Caledonia; DEPRAT, Paris, Bull. Soc. géol., (ser. 4), 5.—*O. colcanapi* sp. n., Eocene, Madagascar; DOUVILLÉ, R. Paris, Ann. Paléont., 1, (67, figs. 4-5).

†*Pellatispira* gen. n. (*Nummulitidae*), for *P. douvillei* sp. n., (91, pl. 2, figg. 10-13), and *P. (N.) madaraszi*, (92, pl. 2, fig. 14); described, BOUSSAC, Paris, Bull. Soc. géol. (4) 6.

†*Pleurostomella alternans*, Miocene and Pliocene ("trubi"), Bonfornello; SILVESTRI, Roma, Mem. Acc. Nouvi Lincei, 22, (253, fig. 6).

(*Polymorphina alveoliniformis* sp. n., Byron Bay, N.S.W.; JENSEN, Sydney, N.S.W., Proc. Linn. Soc., 29, (821, pl. xxiii, figs. 8-12).—*P. sororia*, Reuss var., *id.*, t.c. (817, pl. xxiii, fig. 3).)

(*Polystomella hedleyi* sp. n. Palm Island, Queensland; JENSEN, Sydney, N.S.W., Proc. Linn. Soc., 29, (828, pl. xxiii, fig. 14).—*P. macella* var., Wollongong, *id.*, t.c. (317, pl. xxxiii, fig. 4).)—*P. striatopunctata*, Aralsee, KIAER, Taschent, Izv. Turk. Otd. Russ. Geogr. Obsč., 4, (27-29).

(†*Porocystis*, regarded as a monothalamous Foraminiferan, rather than a Polyzoan; JARVIS, Biol. Bull., 9, (388-390).)

*Ramulina herdmanni* sp. n., CEYLON; DAKIN, Roy. Soc. Rep. Ceylon Pearl Fish., 5, (226-228, 236, figs. i-vi).

(*Rheophax euneta* sp. n. Byron Bay, N.S.W., JENSEN, Sydney, N.S.W., Proc. Linn. Soc., 29, (821, pl. xxiii, figs. 5-7).)

*Rotalidae*; Illustrazione di specie orbignyane istituite nel 1826, FORNASINI, Bologna, Mem. Acc. sc., (Ser. 6), 3, (61-70, 4 tav.).

†*Sigmoilina schlumbergeri* nom. nov., (267), *S. celata* (Costa) sens. str., (268, figs. 12-14), Miocene and Pliocene ("trubi"), Bonfornello; SILVESTRI, Roma, Mem. Acc. Nuovi Lincei, 22.

*Spirillina vivipara* var. *revertens* var. n., LAYSAN and CHATHAM ISLES; RUMBLER, Zool. Jahrb. Syst., 24, (32, figs. 8-10).

†*Spiroclypeus granulatus* sp. n., Priabona; BOUSSAC, Paris, Bull. Soc. géol. (4) 6, (96, pl. 2, figg. 15-18, pl. 3, fig. 19).

†*Spiroplecta corrugata*, Miocene and Pliocene ("trubi"), Bonfornello; SILVESTRI, Roma, Mem. Acc. Nuovi Lincei, **22**, (242, fig. 2).

†*Textularia folium*, Tertiaries, Biarritz; LIEBUS, Wien, Jahrb. geol. Rchs. Aust., **56**, (356, fig. 2).—*T. gibbosa* d'Orb., on the dimorphism of; also distribution, geogr. and geol.; SILVESTRI, Roma, Mem. Acc. Nuovi. Lincei, **24**, (225-242, 9 figs.).

†*Tritaxia lepida*, Tertiaries, Biarritz; LIEBUS, Wien, Jahrb. Geol. RchsAnst., **56**, (359, fig. 7).

*Tubinella* gen. n. (fam. *Rhabdamminidae*), for *T. perforata* sp. n., Laysan; RUMBLER, Zool. Jahrb., Syst., **24**, (25-27, fig. 5).

*Tubinellinae* subfam. n., RUMBLER, Zool. Jahrb. Syst., **24**, (25).

†*Vagulinopsis inversa* (Costa), var. *Carinata* Silv., "trubi," Bonfornello; SILVESTRI, Roma, Mem. Acc. Nuovi Lincei, **22**, (251, fig. 5).

†*Vulvulina pennatula*, "trubi," Bonfornello; SILVESTRI, Roma, Mem. Acc. Nuovi Lincei, **22**, (244, fig. 1).

#### *Incertae sedis.*

(Probably allied to Foraminifera.)

†*Spongiostromaccae* ord. n.

†*Spongiostromidae* fam. n. (35).

†*Aphrostroma* gen. n., (36); *A. tenerrum* sp. n., (36, pls. 1, 2, 3).

†*Chondrostroma* gen. n., 45; *C. problematicum* sp. n., (45, pl. 12, fig. 3); *C. globuliferum* sp. n. 46, pl. 12, figs. 1, 2; *C. intermixtum* sp. n., (47, pl. 13) *C. verruculiferum* sp. n. 48, pl. 14, fig. 1, 2, 3).

†*Malacostroma* gen. n. 48; *M. concentricum* sp. n. (49, pls. 15-17, 20, 23, fig. 7); *M. plumosum* sp. n. (50, pl. 18, fig. 1); *M. undulosum* sp. n. (51, pls. 18, fig. 2, 19).

†*Pycnostroma* gen. n. (38); *P. densius* (39, pls. 4, 5); *P. spongiliferum* sp. n. (40, pl. 6, fig. 2).

†*Spongiostroma* gen. n. (40); *S. maeandrinum* sp. n. (41, pl. 6); *S. bacilliferum* sp. n. (42, pl. 7, pl. 10, fig. 1); *S. oculiferum* sp. n. (43, pls. 8, 9, 10, fig. 2); *S. granulosum* sp. n. (44, pl. 11); all from limestones ("Viséen"), Namur, GÜRICH, Bruxelles, Mém. Musée Belge., **3**, IV. (55, 23 pls.).

#### *Xenophyophora.*

Die Xenophyophoren der Siboga-Expedition; SCHULZE, Resultats des explorations zool., Botan., océan. géol. entreprises aux Indes Néerl. Or. 1899-1900, à bord du Siboga, publiés par Max Weber. Leiden, Livr., **31**, Monogr. 4 bis, 1906, (18, avec 3 pl.).

Xenophyophora der amerikanischen Albatros-Expedition 1904-05; SCHULZE, Berlin, SitzBer. Ges. natf. Freunde, **1906**, (205-229, mit 1 Karte).

*Psammelta globosa* sp. n.; SCHULZE, Rés. exp. Siboga, Livr. **31**, Monogr. 4 bis, (1-11, pl. 1 and pl. 2, figs. 1-10).

#### (e) *Heliozoa.*

*Acanthocystis klepica* sp. n.; HUITFELDT-KAAS, Plankton-Untersuchungen in norwegischen Seen. (Norw.), (IV + 199, mit 3 Taf. u. 9 Tab.), deutsches Rés. (147-197).—*A. pertyana*, test ('skeleton') and spines in, described; LORR, Manchester, Trans. Microsc. Soc., **1905**, (41-44, 1 pl.).

*Lithocolla apsteinii* sp. n.; HUITFELDT-KAAS, Plankton-Untersuchungen in norwegischen Seen, (Norw.), (iv + 199, 3 Taf. u. 9 Tab.), deutsches Rés. (147-197).

#### (d) *Radiolaria.*

Ueber die Mittel der Formbildung im Radiolarienkörper. (6. Mitt. über die Tripyleen der „Valdivia“-Ausbeute). HÄCKER, Verh. D. zool. Ges., Leipzig, **16**, (31-51).

Aeantaria, various, chemical nature of skeletal substance; BÜTSCHLI, Zool. Anz., **30**, (784-789).

*Acanthochiasma bruhni* sp. n., Indian Ocean; POPOFSKY, Arch. Protistenkunde, **7**, (352).—*A. plana* var. n. *schotti*, Indian Ocean; POPOFSKY, Arch. Protistenkunde, **7**, (351, fig. 8).

*Acanthometulidae*, Pacific Ocean, skeletal structure; MIELCK, Zool. Anz., **30**, (754-762, 3 fig.).—*A.*, systematic account; POPOFSKY, Arch. Protistenkunde, **7**, (345-394, 4 pls.).

*Acanthometron erinaceum* sp. n., Atlantic; POPOFSKY, Arch. Protistenkunde, **7**, (354, fig. 12).

*Acanthophracta*, from the Plankton-Expedition of the Humboldt-Stiftung, classification and systematic account;

POPOFSKY, *Ergebn.*, **3**, L. f.  $\beta$ , (160, 16 pls.).

*Arachnothauma* **gen. n.**, (Monopylaria), near *Arachnocorys* *A. mirabile* **sp. n.**; ZACHARIAS, *Arch. Hydrobiol.*, **1**, (566).

*Astracantha* **gen. n.** (Tripylaria), (888); *A. paradoxa* (890, fig. 12); *A. heteracantha* (891, fig. 13.; *A. umbellifera* (891, fig. 14), **spp. n.**, "Valdivia"-expedition; HÄCKER, *Zool. Anz.*, **30**.

*Astracanthidae* **fam. n.**, "Valdivia"-material, diagnosed; HÄCKER, *Zool. Anz.* **30**, (888).

*Atlanticella* **gen. n.** (Tripylaria), (125); *A. anacantha* (125, pl. 10 figs. 1-3); *A. craspedota* (126, pl. 10, figs. 4 and 5); *A. planktonica* (126, pl. 10, figs. 6-8), **spp. n.**, Atlantic Ocean; BORGERT, *Ergebn. Plankton-Exp. Humboldt Stiftung*, **3**, L. h. 3.—*A. bicornis* **sp. n.**; HÄCKER, *Zool. Anz.*, **30**, (894, fig. 16).

*Atlanticellidae*, **fam. n.**, diagnosed; BORGERT, *Ergebn. Plankton-Exp. Humboldt-Stiftung*, **3**, L. h. 3, (117).

*Auloceros patecens* **sp. n.**; ZACHARIAS, *Arch. Hydrobiol.*, **1**, (572).

*Aulospathis monodon* **sp. n.**; ZACHARIAS, *Arch. Hydrobiol.*, **1**, (550).

*Castanea amphora* **sp. n.**, Atlantic; HÄCKER, *Arch. Protistenkunde*, **8**, (65).

*Castanidium sol* **sp. n.** Atlantic; *C. mosleyi* **subsp. n. circoporoides**; HÄCKER, *Arch. Protistenkunde*, **8**, (64).

*Castanissa valdiviae* **sp. n.** Atlantic, HÄCKER, *Arch. Protistenkunde*, **8**, (64).

*Castanura echinus* **sp. n.** Atlantic, HÄCKER, *Arch. Protistenkunde*, **8**, (64).

*Challengeridae*; vierte Mitteilung über die Tripyleen-Ausbeute der deutschen Tiefsee-Expedition. HÄCKER, *Arch. Protistenkunde*, Jena, **7**, 1906, (259-306, 1 Taf.).

*Challengeron häckeri* **sp. n.**; ZACHARIAS, *Arch. Hydrobiol.*, **1**, (572).—*C. sacculus* **sp. n.** "Valdivia" deep-sea expedition; HÄCKER, *Arch. Protistenkunde*, **7**, (302, pl. xi, fig. 10).

*Challengerosium avicularia* **sp. n.**, "Valdivia" deep-sea expedition; HÄCKER, *Arch. Protistenkunde*, **7**, (300, pl. xi, fig. 8).

*Circocastanea* **gen. n.**, (Tripylaria), *margarita* **sp. n.**, HÄCKER, *Arch. Protistenk.*, **8**, (59, fig. 8).

*Circoporctta* **gen. n.**, (Tripylaria), HÄCKER, *Verh. D. zool. Ges.*, **16**, (36).

*Circostephanus valdiviae* **sp. n.**, HÄCKER, *Verh. D. zool. Ges.*, **16**, (36).

*Coleaspis tridentifera* **sp. n.**, Atlantic, POPOFSKY, *Ergebn. Plankton-Exp.*, **3**, L. f.  $\beta$ , (75, pl. 5, fig. 4).

*Cribrosphaera* **gen. n.**, (Acantharia), for *C. polypora*, POPOFSKY, *Ergebn. Plankton-Exp.*, **3**, L. f.  $\beta$ , (63).

*Cruciforma* **gen. n.** for part of *Amphilonche*, (Acantharia), POPOFSKY, *Arch. Protistenkunde*, **7**, (376).

*Cyctocladus* **gen. n.**, (Peripylopedia), for *C. gracilis*, *C. major* **spp. nn.**, German South Polar Expedition; SCHRÖDER, *Zool. Anz.*, **30**, (448-454, 9 figg.).—*C. gracillimus* **sp. n.**, "Valdivia" material; HÄCKER, *Zool. Anz.*, **30**, (879, fig. 1).—*C. spinosus* **sp. n.**, Japan; SCHRÖDER, *Zool. Anz.*, **30**, (587-590, 1 fig.).

*Diploconus nitidus* with var. *indicus*, Indian and Pacific Oceans, (123, pl. 15, figs. 1-3), *D. tridentatus*, Atl., Ind., Pac., (123, pl. 15, figs. 4, 5), **spp. n.**, POPOFSKY, *Ergebn. Plankton-Exp.*, **3**, L. f.  $\beta$ .

*Diporaspis planktonica* **sp. n.**, Atl., POPOFSKY, *Ergebn. t.c.* (50, pl. 2, fig. 7, pl. 3, fig. 1).

*Dorataspis loricate* **varr. nn. disparopora**, *delibitata*, POPOFSKY, *t.c.* (42, pl. 1, figs. 10-12).

*Globospinum* **gen. n.**, (Acantharia), for *G. lanceolatum*, POPOFSKY, *t.c.* (56).

*Heliochallengeron* **gen. n.**, (Tripylaria), for *H. (Challengeron) channeri*, HÄCKER, *Arch. Protistenkunde*, **7**, (300, pl. xi, fig. 9).

*Hystriaspis arbusta* **sp. n.**, Atlantic, POPOFSKY, *Ergebn. Plankton-Exp.*, **3**, L. f.  $\beta$ , (68, pl. 6, fig. 5).

*Lepidella* **gen. n.**, (*inc. sedis*), for *L. chumana* **sp. n.**, ZACHARIAS, *Arch. Hydrobiol.*, **1**.

*Medusellidae* from plankton, Atlantic and elsewhere, BORGERT, *Ergebn. Plankton-Exp. Humboldt-Stiftung*, Bd. **3**, L. h. 4, (133-192, 4 pls.).

*Nationalta valdiviae* **sp. n.**, HÄCKER, *Zool. Anz.*, **30**, (892, fig. 15).

*Phyllostaurus quadrifolius* var. n. *phyllacantha*, ZACHARIAS, Arch. Hydrobiol., 1, (512).

*Planktonetta decapus* sp. n., Atlantic Ocean; BORGERT, Ergebn. Plankton-Exped. Humboldt-Stiftung, 3, I, h. 4, (162, pl. 13, figs. 10-14).

*Ponodiscus armatus* sp. n., ZACHARIAS, Arch. Hydrobiol., 1, (548).

*Protocystis acornis* (292, pl. xi, fig. 3); *P. bicornis* (293, pl. xi, fig. 4); *P. micropolecus* (298, pl. xi, fig. 5); *P. thyroma* (299, pl. xi, fig. 6); *P. tuba* (299, pl. xi, fig. 7), spp. n., "Valdivia" deep-sea expedition; HÄCKER, Arch. Protistenkunde, 7.

*Sagenoarium anthophorum* sp. n., Antarctic, HÄCKER, Verh. D. zool. Ges., 16, (40).—*S. (?) norvegicum* sp. n. Nordatlantic; BROCK, Zool. Anz., 29, (657-659).

*Staurodietya leptacantha* sp. n. ZACHARIAS, Arch. Hydrobiol., 1, (566).

*Tesseraspis cribriforma* with var. *ambigua*, Atl., Pacif., (83, pl. 8, figs. 1, 2, pl. 9, fig. 2); *T. planctonica*, Atl., Ind., Pacif., (83, pl. 8, figs. 3, 4); *T. incognita*, Ind., (84, pl. 8, figs. 5, 6), spp. n.; POPOFSKY, Ergebn. Plankton-Exp., 3, L, f. β.—*T. micropora* var. n. *sargassiana*, id., t.c. (83, pl. 7, fig. 9).

*Thalassothamnidae* fam. n., characterized, HÄCKER, Zool. Anz., 30, (885).

*Thalassothamnus* gen. n., (Peripylaria), (886); *T. tenerimus* (879, fig. 2); *T. ramosus* (880, fig. 3); *T. genista* (881, figs. 4 and 9); *T. spermatorphus* (881, fig. 5), spp. n., "Valdivia"-Material, HÄCKER, Zool. Anz., 30.

*Tignisphaera* gen. n., (Acantharia), for *T. tubulata* and *T. tetragonopa*, POPOFSKY, Ergebn. Plankton-Exp., 3, L, f. β., (104, pl. 16, fig. 1).

*Thoracaspis elegans* varr. nn.; *T. callosa*, (57, pl. 4, figs. 2-5); *T. imperfecta*, (57, pl. 4, figs. 7, 8); *T. perforata*, (58, pl. 4, fig. 6); *T. salebrosa* sp. n., (59, pl. 4, fig. 11); *T. latispicala* sp. n., (60, pl. 5, fig. 2), POPOFSKY, Ergebn. Plankton-Exp., 3, L, f. β.

*Tuscaroridae*, in "Plankton-Expedition der Humboldt-Stiftung"; BORGERT, 3, L, h. 2, (95-112, 1 pl.).

*Zygacantha annulata* sp. n., Atlantic, POPOFSKY, Arch. Protistenkunde, 7, 358, fig. 13).

## 3. SPOROZOA.

## (a) Gregarinidea.

*Aggregata* [vide under Coccidia].

*Cystobia chridotae* sp. n.; DOGIEL, Arch. Protistenkunde, Jena, 7, 1906, (106-130, 1 Taf.).

*Dipladina*, gen. n. (for *Cystobia irregularis*, life-cycle, D. *minchinii*, notes on, WOODCOCK, Q. J. Microsc. Sci., 50, (1-100, 6 pls.).

*Eleutheroschizon* gen. n., for *E. duboseqi* sp. n., BRASIL, Arch. zool., 4, Notes et Rev., (xvii-xxii, with fig.).

(*Gregarina cavalierina* sp. n. BLANCHARD, Paris, C.-R. ass. franç. avanc. sci., 33, (926-928), Bull., 1904, (269).)—*G. socialis* sp. n., LÉGER, Arch. Protistenkunde, 7, (327, text-fig.).

*Monocystis coronatus* sp. n., from *Pheretima*, HESSE, Paris, Bull. ass. franç. avanc. sci., 1904, (268).—*Monocystis* spp., conjugation and reproduction; BRASIL, Arch. Zool., Paris, 4, 1905, (69-99, 2 pls.).

(*Stylorhynchus gladiator* sp. n. BLANCHARD, Paris, Bull. ass. franç. avanc. sci., 1904, (269), C.-R., 33, (924-925).)

*Taenocystis mira*, structure and development, LÉGER, Arch. Protistenkunde, 7, (307-329, 2 Taf.).

## (b) Coccidiidea.

*Adelea zonula* sp. n., from *Blaps*; MOROFF, Arch. Protistenkunde, 8, (17-51, 1 Taf.).

*Aggregata* (= *Eucoccidium*) *eberthi*, development in a crab (*Portunus*); LÉGER et DUBOSCO, Paris, C.-R. Soc. Biol., 60, (1001-1003).—*A. spinosa* sp. n., diagnosed, (74); *A.* spp., varieties of nuclear division; MOROFF, Zool. Anz., 31, (72-78).

*Diplospora fragilis* sp. n., from *Vipera aspis*, LÉGER, Paris, Bull. Ass. franç. avanc. sci., 1904, (268).

*Eucoccidium*, (syn. "*Benedenia*," *Klossia*), genetically connected with *Aggregata*; *E. jacquemeti* sp. n., MOROFF, Paris, C.-R. Acad. Sci., 142, (652-654).—*E. eberthi* and *E. jacquemeti* of Cephalopods, development in crabs (*Ucahus*, *Portunus*, etc.) in an *Aggregata*-form; LÉGER et DUBOSCO, Paris, C.-R. Acad. sci., 142, (1225-1227).



*Hyalosphaera* gen. n., for *H. gregari-nicola* sp. n.; DOGIEL, Arch. Protistenkunde, 7, (123-128, pl. iii, figs. 20-29).

*Karyospora* gen. n. for *K. simplex* sp. n., from *Vipera aspis*, noted only, LÉGER, Paris, Bull. Ass. franç. avanc. sci., 1904, (268).

*Nematopsis schneideri* sp. n., from *Mytilus*, LÉGER, Paris, Bull. ass. franç. sci., 1905, (331).

*Orcheobius* gen. n. for *O. herpobdellae* sp. n. from *Nepheleis (Herpobdella)*; SCHUBERG und KUNZE, Verh. D. zool. Ges., 16, (233-250).

### (c) Haemosporidia.

On Haematozoa [spec. indet.] in a bat; BOWHILL, J. Hygiene, 6, (246-247, pl. iii).

On Haematozoa of bats; SCHINGAREFF, St. Peterb., Arch. Sci. biol., 12, (181-189, 1 pl.).

On the Haematozoan of *Testudo ibera*; POPOVICI-BAZNOȘANU, Paris, C.-R. soc. biol., 60, (173-174).

Blood parasites of the mole; THOMSON, J. Hygiene, 6, (574-579, pl. 10).

"*Achromaticus*" *vesperuginis* (Dionisi), GONDER, Berlin, Arb. Gesundheitsamt, 24, (220-226, 1 Taf.).

*Halteridium crumenium* sp. n., from an African stork; HIRST, London, Proc. Zool. Soc., 1905, ii, (297).

"*Haemamoeba*" *neavei* [sic!] sp. n., recalling "*H.*" (*Leucocytozoon*) *zie-manni*; NEAVE, Khartoum, Rep., Wellcome Research Lab., 2, (200, pl. 20).

*Haemogregarina balfourii* (Laveran), BALFOUR, Khartoum, Rep. Wellcome Res. Lab., 2, (97-110, figs. 57-60, pl. xi-xiii), and J. Trop. Medicine, 9, (81-92, 2 pls.).—*H. borreli* sp. n., from *Varanus*, NICOLLE et COMTE, Paris, C.-R. soc. biol., 61, (310-312, with fig.).—*H. callionymi* (380, text-fig. 3); *H. quadrigemina* (381, text-fig. 3, A-H); LEBAILLY, Arch. Parasit., 10.—*H. (flesi + platessae)*, notes on structure; ROBERTSON, M., Edinburgh, Proc. R. Physic. Soc., 16, (242, pl. 9).—*H. lignièresi* sp. n., from *Anguilla*; LAVERAN, Paris, C.-R. Soc. biol., 60, (457-458).—*H. mabuia* sp. n., from a lizard (*Mabuia*), NICOLLE et COMTE, Paris, C.-R. soc. biol., 61, (294-295, with fig.).

*Haemoproteus (Halteridium) columbae*, Kruse; a Hippoboscid (*Lynchia*) as alternate host; SERGENT et SERGENT, Paris, C.-R. soc. biol., 61, (494-496).—*H. maccallumi*, *H. rouxii*, *H. sacharovi* spp. nn.; NOVY and MACNEAL, New York, Proc. Soc. Exp. Biol. Med., 2, 1905, (23-28).

*Leishmania* ("Piroplasma") *donovani*, the "*Hepatomonas*" of Kala-Azar, development of Flagellate phases; ROGERS, London, Proc. R. Soc., 77, B, (284-293, pl. vii).

On a Protozoan parasite from a dog (= *Leucocytozoon canis*); WENYON, J. Hygiene, 6, (231-236, pl. 2).

*Leucocytozoon funambuli* sp. n., from palm-squirrels; PATTON, Sci. Mem. India, 24, (13, 1 pl.).—*L. muris* sp. n., from the rat; BALFOUR, Khartoum, Rep. Wellcome Res. Lab., 2, (110-111, pl. xi).—*L. ratti* sp. n. (prov.), from *M. rattus*; ADIE, Journ. trop. Medicine, 9, (325-329, text-figs.).—*L.* sp. (perhaps *ratti*) from *Mus decumanus*; CLELAND, Journ. Trop. Medicine, 9, (296-297).

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*Piroplasma bigeminum*, also *P.* of East African Coast fever, developmental phases in ticks; KOCH, Zs. Hyg., Leipzig, 54, (1-9, 3 Taf.).—*P. canis*, observations on morphology and life-history; NUTTALL and GRAHAM-SMITH, J. Hygiene, 6, (586-651, pl. 11-13, 23 text-figs.).—*P. c.* attempts at cultivation; KLEINE, Zs. Hyg., Leipzig, 54, (10-16, 2 Taf.).—*P. muris* sp. n.; FANTHAM, Q. J. Microsc. Sci., 50, (493-516, 1 pl.).—*P. (Babesia)*, spp., minute structure and relation to blood-corpuscles; LÜHE, Zool. Anz., 30, (45-52).—*P.* (sp. incert.) in cattle in Japan; MIYAJIMA and SHIBAYAMA, Zs. Hyg., 54, (189-200, 1 Taf.).

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(*Nosema longifilum* sp. n.; HESSE, Paris, C.-R. ass. franç. avanc. sci., 33, (917-919), Bull., 1904, (268).)—N., liability of mistaking yeast-bodies and other cell-parasites in *Blatta* for spores of; MERCIER, Paris, C.-R. Soc. Biol., 60, (1081-1083).

#### (d) Myxosporidia.

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*Branchiophaga alosicida*, Mazzar. Rapporti col *Blastulidium*; MAZZARELLI, Rivista mensile di Pesca, 8, (209-214, 7 figg.).

*Chloromyxum cristatum* sp. n., from *Tinca*; LÉGER, Paris, C.-R. Acad. sci., 142, (1097-1098).—*C. truttiae* sp. n.; LÉGER, Paris, C.-R. Acad. sci., 142, (655-656).

*Henneguya acerinae* sp. n., aus den Kiemen von *Acerina cernua*; SCHRÖDER, Arch. Protistenkunde, 7, (186-196, 1 Taf.).—(*H. legeri* sp. n., from *Cobitis*; CÉPÈDE, Paris, C.-R. Ass. franç. avanc. sci., 33, (911).)

(*Myxidium barbatulae* sp. n., from *Cobitis*, kidney and bladder; CÉPÈDE, Paris, C.-R. Ass. franç. avanc. sci., 33, (912).)—*M. giardi* sp. n., from *Anguilla vulgaris*; CÉPÈDE, Paris, C.-R. Soc. Biol., 60, (15-16 and 170-173, 4 figg.).—*M. rhodei* sp. n.; LÉGER, Paris, Bull. Ass. franç. avanc. sci., 1905, (330).

*Myxobolus aeglefini* sp. n., from *Gadus aeglefinus*, spores described; AUERBACH, Zool. Anz., 30, (568-570).—*M. pfeifferi*, producente la psorospermiosi o mixoboliosi tuberosa dei barbi; STAZZI, Rivista mensile di Pesca, 8, (14-19, 3 figg.).—*M. pfeifferi*, sexual phenomena and development of spores; MERCIER, Paris, C.-R. Soc. Biol., 60, (427-428 and 763-764).

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(*Thelohania cepedei* sp. n.; HESSE, Paris, C.-R. ass. franç. avanc. sci., 33, (919), Bull., 1904, (268).)—T. sp., from *Talitrus* (Amphipod); MERCIER, Paris, C.-R. soc. biol., 61, (90-91).

#### (e) Haplosporidia.

(Recherches sur les Haplosporidies; CAULLERY et MESNIL, Arch. zool., sér. 4, 4, (101-180, pl. 1).)

*Anurosporidium* gen. n., *A. pelsencervi* sp. n., from sporocysts of a Trematode; CAULLERY and CHAPPELLIER, Paris, C.-R. Soc. Biol., 60, (325-328, 4 figg.).

*Bertramia kirkmani* sp. n., from a S. African Rotifer; WARREN, Ann. Nat. Govt. Mus., 1, pt. 1, (7, pl. vi).

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*Amœbidium*, morphology, biology and development, "a Thallophyte rather than a Sporozoon"; CHATTON, Arch. zool., sér. 4, 5, Notes et revue (xvii-xxx, fig.).—*A. reticulata* sp. n., commensal with *Daphnia*; CHATTON, Arch. zool., N. et R., 5, (xxxiii-xxxviii, with figg.).

*Cytoryctes* [= *Cytorrhycles*, *Cytorrhycles*], critical remarks on connection with syphilitic lesions, relation to Protozoa; SIEGEL, Centralbl. Bakter., Abth., 1, 42, Orig., (128-132, 225-230, 321-325).—

*Plasmodium* [sic] *luis kytophthoron*, *P. luis kytoplastikon*, **sp. n.** (cancer parasites, etc.), SCHÜLLER, *Centralbl. Bakt., Jena*, Abt. 1, **40**, Originale, (463-474).

#### 4. MASTIGOPHORA.

##### (a) Flagellata.

(Hémoflagellés des poissons d'eau douce. Leur forme dans les sangsues, LÉGER, Paris, Bull. ass. franç. avanc. sci., **1904**, (268-269).)

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Note on a Flagellate parasite (probably *Crithidia*), in *Culex fatigans*, ROSS, *J. Hygiene*, **6**, (96 and 97).

Haemoflagellates of an African fish (*Clarias angolensis*); DUTTON, TODD and TOBEY, *J. mod. Res.*, (N. Ser.), **10**, (491-495, pl.).

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*Euglena*, structure of paramylum; BÜTSCHLI, *Arch. Protistenkunde*, **7**, (197-228, 1 Taf.).

*Herpetomonas algeriense* **sp. n.**, from *Culex*, and *Stegomyia*, also *H. sp.*, from *Anopheles*; SERGENT, E. and E., Paris, C.-R. soc. biol., **60**, (291-293, text-figs.).—*H. muscae-domesticae*, *H. sarcophagae*, *H.* (perhaps *n. sp.*), from the fly, described; LINGARD and JENNINGS, London, **1906**, (25, 5 pls.).—*H.*-like parasites (probably *Crithidia*); BALFOUR, *J. Hygiene*, **6**, (652-655, pl. xiv).

*Palatinella* **gen. n.**, *P. cyrtophora* **sp. n.** Deutschland; LAUTERBORN, *Zool. Anz.*, **30**, (423-428, 3 figs.).

*Spirochaeta* ("Trypanosoma") *balbianii*, researches on life-history, PERRIN, *Arch. Protistenk.*, **7**, (131-156, 2 pls.).—

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*Trichomastix viperæ* **sp. n.**, LÉGER, Paris, Bull. ass. franç. avanc. sci., **1904** (268).

*Trypanomorpha* **gen. n.** (for *Trypanosoma noctuae*, Schaudinn); WOODCOCK, *Q. J. Microsc. Sci.*, **50**, (283). *Trypanomorphidae* **fam. n.**; WOODCOCK, *l.c.* (283).

*Trypanoplasma barbi*, *T. abramidis*, *T. truttae*, **sp. n.**, noted; BRUMPT, Paris, C.-R. soc. biol., **60**, (163-164).—*T. borreli*, Generations- und Wirtswechsel; KEYSSELTZ, *Arch. Protistenkunde*, **7** (1-74, 162 figg.).

*Trypanosoma acerrinae*, *T. barbi*, *T. percae*, *T. phoxini*, *T. lanzeroni*, *T. leucisci*, *T. sardinii*, *T. elegans*, *T. squalii*, and *T. rabinovitschii* **sp. n.**; notes on development in leeches; BRUMPT, Paris, C.-R. soc. biol., **60**, (160-162).—*T. blanchardi* **sp. n.**, occurrence and note; BRUMPT, *Rev. Sci.*, Paris, (ser. 5), **4**, 1905, (324, figg. 34 and 35).—*T. brucei*, curious morphological features; ROBERTSON, Edinburgh, *Proc. R. Physic. Soc.*, **16**, (232, pl. 8).—*T. cazalbouvi* **sp. n.**, causing "Souma" among *Equidae* and *Bovidae* in the Upper Niger; LAVERAN, Paris, C.-R. Acad. sci., **143**, (91-97).—*T. duttoni* Thiroux, morphology; THIROUX, *Ann. Inst. Pasteur*, **19**, (564-572, 1 pl.).—*T. d.*, le Trypanosome de la souris; cycle de développement chez le foetus; PRICOLO, *Centralbl. Bakt.*, Abt. 1, **42**, Orig., (231-235, with fig.).—*T. elegans*, (153, pl. 3, fig. 7, pl. 4, fig. 10), *T. undulans*, (151, pl. 3, fig. 9, pl. 4, figs. 8, 9), **sp. n.**, *T. loricatum vel costatum* (Mayer), (144, pl. 3, figs. 8, 13, pl. 4, figs. 1, 2), *T. rotatorium* (Mayer), sens. str. (without striae), (147, pl. 3, fig. 6, pl. 4, figs. 3, 4), *T. inopinatum*, Sergent, (150, pl. 3, fig. 4, pl. 4, figs. 6, 7), all from *Rana esculenta*; FRANÇA and ATHIAS, *Archives Inst. Roy. Bacter.*, **1**.—*T. gambiense*, expériences d'infection par des *Glossina palpalis* infectées naturellement; CAZALBOU, Paris, C.-R. Acad. sci., **143**, (435-437).—*T. g.*, "T." *grayi*, and *T. tullockii* **sp. n.** (Minchin), comparative morphology in, and relation to, *Glossina palpalis*; MINCHIN, GRAY and TULLOCH, London, *Proc. R. Soc.*, **78** (B), (242-258, pls. 12-14).—"*Trypanosoma*" *grayi* **sp. n.**, and other Tsetse-fly Trypanosomes; NOVY,

Chicago, J. inf. diseases, **3**, (394-411, 3 pls.).—*T. inopinatum*, mode of transmission and behaviour in *Helobdella*; BRUMPT, Paris, C.-R. soc. biol., **61**, (167-169).—*T. nanum*, notes on; BALFOUR, Khartoum, Rep. Wellcome Res. Lab., **2**, (113-173, pl.), and J. Trop. Medicine, **9**, (81-92, 2 pls.).—*T. pestanaei*, from *Meles taxus*, described; BETTENCOURT and FRANÇA, Archives Inst. Roy. Bacter., **1**, (73-75, pl. 3, figs. 1 and 2).—*T. platessae*, (354, pl. 7, fig. 10), *T. flesi*, (355, fig. 7), *T. limandae*, (356, fig. 11), *T. laternae*, (357, fig. 6), *T. bothi*, (358, fig. 8), *T. callionymi*, (358, fig. 5), *T. cotti*, (360, fig. 4), *T. gobii*, (361, fig. 9), *T. delagei*, (362, fig. 12), *T. granulorum* var. *magna* var. n., (364, fig. 1), var. *parva* var. n., (366, fig. 2), described; LEBAILLY, Arch. Parasit., **10**.—*T. pleuronectidium* sp. n. (but antedated by Lebailly's names *T. flesi* and *T. platessae*, 1904), proposed; ROBERTSON, Glasgow, Proc. Phil. Soc., **37**, (77, pl. 1, figs. 4 and 5).—*T. pythonis* sp. n., [apparently really a Haemogregarine]; ROBERTSON, Glasgow, Proc. Phil. Soc., **37**, (74, pl. 1, figs. 1-3), also Edinburgh, Proc. R. Physic. Soc., **16**, (237, 3 figs.).—*T. rotatorium*, morphology and artificial cultivation; BOUET, Paris, Ann. Inst. Pasteur, **20**, (564-577, pl. 26).—*T. r.*, phenomena of division; FRANÇA and ATHIAS, Paris, C.-R. soc. biol., **60**, (1108-1109).—*T. somalense* sp. n., from *Bufo reiculatus*; BRUMPT, Paris, C.-R. soc. biol., **60**, (164).—*T. suis* sp. n., from swine; OCHMANN, Berliner tierärzt. Wöchenschr., **1905**, (337-338).—*T. theileri*, observed in oxen in Transcaucasia, morphology and developmental forms; LUUS, Arch. Parasit., **10**, (171-186, 2 pls.).—*T. t.*, observed in an antelope, DUTTON, TODD, and TOBEY, Liverpool, Mem. Sch. Trop. Med., **20**, (95, pl. 9).—*T. vespertilionis*, BATTAGLIA, Roma, Ricerche Lab. anat. norm., **12**, 1906, (5-51, 2 tav.).—*T. v.*, Battaglia, description and synonymy; BETTENCOURT and FRANÇA, Archives Inst. Roy. Bacter., **1**, (187-194, pl. 3, fig. 3).

*Trypanosomata* and trypanosomoses; TOBEY, J. Med. Research, **10**, (117-145).

Trypanosomes of Gambia-fever and sleeping-sickness identical—i.e. *T. gambiense*; THOMAS, London, Proc. R. Soc., **78 B**, (316-317).—Trypanosome of bats,

(*Vespertilio külli*), different forms; NICOLLE and COMTE, Paris, C.-R. soc. biol., **60**, (736-738).—A Trypanosome (= *T. evansi*?) of horses in Annam; VASSAL, Ann. Inst. Pasteur, **20**, (256-295).—Trypanosome of "Soumaya," Moyen-Niger; PÉGAUD, Paris, C.-R. soc. biol., **60**, (58).

*Trypanozoon* gen. n., proposed for Mammalian Trypanosomes, (92); *T. criceti*, (111), *T. indicum*, (112), spp. n.; LÜHE, in Handbuch der Tropenkrankheiten, Leipzig (J. A. Barth), **3**, pt. 1.

*Volvox aureus* (= *V. minor*), parthenogonidia, sexual elements and conjugation; STEMPEL, Zool. Anz., **30**, (535-539).

#### (b) Silicoflagellata.

*Hermesinum* gen. n., (*Dietyochida*), *H. adriaticum* sp. n., Mittelmeer; ZACHARIAS, Arch. Hydrobiol., **1**, (394-398, and 514).

#### (c) Dinoflagellata.

*Blastodinida* ord. n.:

*Blastodinium* gen. n., *B. pruvoti* sp. n., parasitic in various Copepods; CHATTON, Paris, C.-R. Acad. sci., **143**, (981-983, with figg.).

*Ceratium buceros* sp. n. ZACHARIAS, Arch. Hydrobiol., **1**, (551).—*C. flagelliferum* varr. n. *angusta*, (544), and *arcuata*, (553), *C. lunula* var. n. *obliqua*, (559), *C. volans* Cleve form. n. *porrecta*, (558); ZACHARIAS, Arch. Hydrobiol., **1**.—*C. "tripos" longinum*, (fig. 18), *protuberans*, (fig. 27), *macroceroides*, (fig. 28), spp. n. [for subspecies?], Atlantic Ocean; KARSTEN, Wiss. Ergebn. d. Tiefsee-Exped., II, **2**, ii, (140-146).

*Cladopyxis steini* sp. n.; ZACHARIAS, Arch. Hydrobiol., **1**, (567).

*Dinophysis homunculus* varr. n. *carinata*, *appendiculata*; ZACHARIAS, Arch. Hydrobiol., **1**, (540).

*Gonyaulax triacantha*, skeletal structure; KOFOID, Zool. Anz., **30**, (102-105, 3 text-figs.).

*Gymnodinium roseum* (20), *G. affine* (26), *G. parasiticum* (28), *G. coeruleum* (35), spp. n. Neapel; DOGIEL, Mitt. zool. Stat. Neapel, **18**, 2 pls.

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# III. PORIFERA OR SPONGIDA

ARRANGED BY

I. B. J. SOLLAS

## CONTENTS

	PAGE
I. TITLES .. .. .	2
II. SUBJECT INDEX:—	
General works, economics, and technique = 0603 ..	4
Anatomy = 0607 .. .. .	4
Physiology = 0611 .. .. .	4
Development = 0615 .. .. .	4
Ethology = 0619 .. .. .	4
Distribution:—	
Actual = 0627 .. .. .	4
Fossil .. .. .	5
III. SYSTEMATIC = 0631:—	
Porifera, general .. .. .	5
Calcarea .. .. .	5
Homocoela .. .. .	5
Heterocoela .. .. .	5
Hexactinellida .. .. .	5
Lyssacina .. .. .	5
Dictyonina .. .. .	6
Demospongiae .. .. .	6
Tetractinellida .. .. .	6
Choristida .. .. .	6
Lithistida .. .. .	6
Monaxonida .. .. .	6
Hadromerina .. .. .	6
Halichondrina .. .. .	6
Keratosa .. .. .	7

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## II.—SUBJECT INDEX.

### GENERAL WORKS, ECONOMICS AND TECHNIQUE. 0603

Porifera, general account; **Sollas**.

[Jahresbericht über] Spongiae für 1904; **Weltner**.

Titres et travaux scientifiques de M. Charles Gravier; **Gravier**.

La culture et l'acclimatation des Éponges en Tunisie; **Allemand**.

Spongiculture sur les côtes de Tunisie; **Allemand**.

La pêche des éponges en Tunisie; **Cotte**.

Guide, sponges, American museum; **Miner**.

### STRUCTURE. 0607

Symmetry of spicules; **Loomis**.

Skelettnadeln der Kalkschwämme; **Butschli**.

Form of spicule determined by axial filament; **Arévalo**.

### PHYSIOLOGY. 0611

Spicules, triradiate, function; **Lydekker**.

De l'action toxique de la subératine (extrait aqueux de *Suberites domuncula*); **Richet**.

Ueber die Einwirkung karbonatfreier und kalkfreier Salzlösungen auf erwachsene Kalkschwämme und auf Entwicklungsstadien derselben; **Maas**.

Symbiosis (?), *Hircinia* and Cirripedia effect on reproduction; **Hammer**.

### DEVELOPMENT. 0615

Comparison of development of monaxon of sponges and *Cuenmariidae*; **Woodland**.

Entwicklung, *Sycandra raphanus*; **Hammer**, 1.

Ei- und Larven-Entwicklung *Sycandra raphanus*; **Hammer**, 2.

Larve, *Hircinia variabilis*, Entwicklungsgeschichte der Filamente; **Hammer**, 3.

Gemmulation chez *Suberites domuncula*; **Cotte**.

Wirkung der Kalkentziehung auf die Entwicklung der Kalkschwämme; **Maas**, 1.

Einwirkung karbonatfreier und kalkfreier Salzlösungen auf Entwicklungsstadien der Kalkschwämme; **Maas**, 2.

### ETHOLOGY. 0619

Formation of flints; **Sollas**, W. J.

Rock formation and destruction; **Lomas**.

Commensals of *Spongilla carteri* in Calcutta; **Annandale**, 2.

### GEOGRAPHY. 0627

#### A. Actual.

European Seas and Freshwaters. *d*

Weisses Meer, *Monaxonida* 14 spp. n.; **Svarčevskij**.

Oberrhein, *Carterius stefanovi* Dyb.; **Lauterborn**.

## Asiatic Seas and Freshwaters. c

Ceylon coasts, sponges, discussion of results previously published; **Herdman**.

Singapore, *Tetractinellida*, *Monaxonida*, *Ceratosa* 24 spp.; **Dragnewitsch**.

Bengal, *Spongilla lacustris* var. n.; **Annandale**, 1.

## African Seas and Freshwaters. f

I. Tanganyika *Spongilla* sp. n.; **Kirkpatrick**.

Tunisie, éponges de commerce; **Cotte**.

Mer Rouge, *Monaxonida* and *Tetractinellida* 8 spp. n.; **Topsent**, 2.

Zambesi, *Spongilla* 2 spp. n.; **Kirkpatrick**.

White Nile, *Ephydatia plumosa* var. n.; **Kirkpatrick**.

## American Seas. g

Anticosti, *Monaxonida* 3 spp.; **Schmitt**.

Kalifornien, Kalkschwämme spp. n.; **Urban**.

## Australasian Seas. i

New South Wales, *Monaxonida* 16 spp. n. marine; **Whitelegge**.

## Antarctic Ocean. o

L'Antarctique, Éponges recueillies par le "Français," *Dendrilla* sp. n.; **Topsent**, 1.

## Atlantic Ocean. l

E. Atlantic, *Farrea occa* var. n.; **Topsent**, 4.

## B. Fossil.

Pleistocene Maryland, *Cliona sulphurea*, borings; **Clark**.

Miocène Algeriens, *Tetractinellida*, *Lithistida*, *Hexactinellida*; **Zeise**.

Chalk Croydon, *Porosphaera*, *Plinthosella*; **Hinde**.

Paläozoische Gebilde Podoliens; **Siemiradzki**.

Devonian, Moscow Shale New York *Astracospongia*; **Slocum**.

Silurian, Keewatin, Manitoba, *Receptaculites* sp. indet; **Whiteaves**.

Silurian, Anticosti *Bothotrephes* formant presque à lui seul un lit de plusieurs centimètres; **Schmitt**.

Middle Cambrian, China *Protospongia* sp. n.; **Walcott**.

## III.—SYSTEMATIC. 0631

## CALCAREA.

## (i) HOMOCOELA.

*Leucosolenia eleanor* sp. n. California, **URBAN**, Arch. Natg., 72, (55).

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†*Stromatoceridae* n. fam. of Eascones, **SEELY**, T.c. (171).

†*Cryptozoon steeli*, *saciroscum*, *wingi* spp. n., **SEELY**, T.c.

†*Wingia* gen. n. *congregata*, *lapilla*, *discoidea* spp. n., **SEELY**, T.c. (178).

## (ii) HETEROCOELA.

*Leucantra heathi*, *apicalis* spp. nn. California, **URBAN**, Arch. Natg., 72, (59).

*Sycantra coacta* sp. n. California, **URBAN**, T.c., (36).

*Sycandra raphanus*, **HAMMER**, Verh. D. zool. Ges., 16, (269-273); Entwicklung und feinerer Bau, Berlin, SitzBer. Ges. natf. Freunde, 1906, (135-139).

*Porosphaera* spp. from Chalk Croydon, **HINDE**, Croydon, Proc. Microsc. Nat. Hist. Cl., 1905, (87-92).

## HEXACTINELLIDA.

## (i) LYSSACINA.

*Protospongia chloris* sp. n., Middle Cambrian, China, **WALCOTT**, Washington, D.C., Nation. Mus. Proc., 29, (10).

*Sphaerospongia podolica* sp. n., STE-MIRADZKI, J. v., Wien, Beitr. Pal. Geol. Oest-Üng., **19**, (213-286, mit 7 Taf.).

## (ii) DICTYONINA.

*Farrea oeca* (Bwk) var. *foliascens* var. n. Azores and Madeira, TOPSENT, Bull. Mus., Monaco, No. **83**, 1906.

## OCTACTINELLIDA.

*Astraeospongia hamiltonensis*, Moscow shale, Western New York, SLOCOM, Chicago, Ill., Pub. Field Columb Mus. Geol. Ser., **2**, (261).

## DEMOSPONGIAE.

## (i) TETRACTINELLIDA.

## (1) CHORISTIDA.

*Isops jousseaumei* sp. n. Mer Rouge, TOPSENT, Bul. Muséum, Paris, **1906**, (569).

*Sidonops globosa* sp. n. Cape Town, BAER, Arch. Natg., **72**, (9).

*Tethya Lamarek armata* sp. n. Sausibar, BAER, T.c., (4).

*Tethyopsilla globosa* sp. n. Sausibar, BAER, T.c., (5).

## (2) LITHISTIDA.

†*Plinthosella* sp. Chalk Croydon, HINDE, Croydon, Proc. Microsc. Nat. Hist. Cl., **1905**, (87-92).

## (ii) MONAXONIDA.

## (a) HADROMERINA.

*Clavulides purpurines*, TOPSENT, Bul. Muséum, Paris, **1906**, (570-575).

†*Cliona sulphurea*, Pleistocene Maryland, CLARK, Maryland Geol. Surv., Baltimore, **1906**, (213-214, with pl.).

*Coppatias sausibarensis* sp. n. Zanzibar, BAER, Arch. Natg., **72**, (23).

*Protelcia borealis* sp. n. Weisses Meer, SVARČEVSKIJ, Kiev, Zap. Obšč. jest., **20**, (315, 357).

*Spirastrella bonneti* sp. n. Victoria, Australie du Sud, TOPSENT, Bul. Muséum, Paris, **1906**, (573).

*Suberites domuncula*, gemmulation, COTTE, Paris, Bull. ass. franç. avanc. sci., **1904**, (266).

## (b.) HALIOPHONDRIINA.

*Amphilectus terzensteini* sp. n., Weisses Meer, SVARČEVSKIJ, Kiev, Zap. Obšč. jest., **20**, (343, 361).

*Axinella* sp. indet., probably new, deep water between Gough I. and Capetown, THOMSON and FIDDES, Edinburgh, Proc. R. Physic. Soc., **16**, (231).

*Azinysa gravieri* sp. n. Mer Rouge, TOPSENT, Bul. Muséum, Paris, **1906**, (563).

*Chondropsis syringianus* sp. n., N. S. Wales, WHITELEGGE, Sydney, N.S.W., Mem. Austr. Mus., **4**, (464, pl. 43, fig. 1).

*Cladorhiza waiti* sp. n., N. S. Wales, WHITELEGGE, T.c., (473, pl. 44, figs. 13, 13a).

*Dendoryx inaequalis* Papeete, *simplex* Cape Town, spp. n., BAER, Arch. Natg., **72**, (21).

*Dendoryx punicea, fusca* spp. n., N. S. Wales, WHITELEGGE, Sydney, N.S.W., Mem. Austr. Mus., **4**, (480-481, pls. 44-45).

*Desmacidon porifera, hispida, stelligera, arcuosa, conulissima* spp. n., N. S. Wales, WHITELEGGE, T.c., (475-479, pl. 44).

*Donatia viridis* Papeete, *parvistella* Zanzibar, spp. n., BAER, Arch. Natg., **72**, (26).

*Donatia arabica* sp. n., Mer Rouge, TOPSENT, Bul. Muséum, Paris, **1906**, (567).

*Echinodictyum flabellatum* sp. n., Mer Rouge, TOPSENT, T.c., (561).

*Ephydatia plumosa* Carter var. *brunni* var. n., White Nile, KIRKPATRICK, London, Proc. Zool. Soc., **1906**, (226).

*Esperella varpachowskii* sp. n., Weisses Meer, SVARČEVSKIJ, Kiev, Zap. Obšč. jest., **20**, (316, 361).—*E. ancorina, cylindrica, textilis* spp. n., N. S. Wales, WHITELEGGE, Sydney, N.S.W., Mem. Austr. Mus., **4**, (466-468, pl. 43).

*Hesperioipsis canaliculata, ferruginea*, spp. n., N. S. Wales, WHITELEGGE, T. c., (471-472, pl. 43).

*Gellius reptans* sp. n., N. S. Wales, WHITELEGGE, T. c., (462).

*Halichondria papillata* Papeete, reticulata, digitata Zanzibar, spp. n., BAER, Arch. Natg., 72, (11).—*H. axinelloides, aspera* spp. n., Weisses Meer, SVARČEVSKIJ, Kiev, Zap. Obšč. jest., 20, (322, 358).

*Totrochota arbuscula* sp. n., N. S. Wales, WHITELEGGE, Sydney, N.S.W., Mem. Austr. Mus., 4, (482, pl. 44, fig. 18).

*Leptosia lancifera* sp. n., Mer Rouge, TOPSENT, Bul. Muséum, Paris, 1906, (560).

*Ilassodendoryx monticularis* sp. n., Sansibar, BAER, Arch. Natg., 72, (22).

*Mycale imperfecta* sp. n., Zanzibar, BAER, T. c. (20).

*Myxilla hastatispiculata, iophonoides* spp. n., Weisses Meer, SVARČEVSKIJ, Kiev, Zap. Obšč. jest., 20, (338, 360).

*Pachychalina alveolopora* sp. n., Mer Rouge, TOPSENT, Bul. Muséum, Paris, 1906, (559).

*Pachychalina nigra* sp. n., Zanzibar, BAER, Arch. Natg., 72, (15).

*Phloderma polypoides* sp. n., N. S. Wales, WHITELEGGE, Sydney, N.S.W., Mem. Austr. Mus., 4, (474, pl. 44, fig. 12).

*Reniera decidua* sp. n., Mer Rouge, TOPSENT, Bul. Muséum, Paris, 1906, (560).—*R. mollis* sp. n., Zanzibar, BAER,

Arch. Natg., 72, (14).—*R. merojkowskii, pulchra, papillifera, hirsuta, firma, bulbifera* spp. n., Weisses Meer, SVARČEVSKIJ, Kiev, Zap., Obšč. jest., 20, (328, 358).

*Rhaphisia ramosa* sp. n., N. S. Wales, WHITELEGGE, Sydney, N. S. W., Mem. Austr. Mus., 4, (463, pl. 43, fig. 4).

*Spongilla cunningtoni* L. Tanganyika (221), *rousseletii* Zambesi (223), *S. (?) zambesiana* Zambesi (225) spp. n., *S. carteri* Bwk, *moorei* Evans, *tanganyikar* Evans, described and figured; KIRKPATRICK, London, Proc. Zool. Soc., 1906, (218-227).—*S. laenstris* var. n. *benjalensis* described, ANNANDALE, Calcutta, J. As. Soc. Beng., 2, (56-57).

*Tedania digitata* Schmidt varr. n., *sansibarensis, fragilis, conica*, BAER, Arch. Natg., 72, (17).

*Vosmaeria robusta* sp. n., Weisses Meer, SVARČEVSKIJ, Kiev, Zap. Obšč. jest., 20, (320, 357).

*Yvesia commensalis* sp. n., N. S. Wales, WHITELEGGE, Sydney, N.S.W., Mem. Austr. Mus., 4, (483, pl. 44, fig. 9).

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# IV. COELENTERATA

ARRANGED BY

H. M. WOODCOCK, D.Sc. (LOND.) AND A. D. IMMS

## CONTENTS

	PAGE
I. TITLES .. .. .	3
II. SUBJECT INDEX :—	
General and Miscellaneous = 0803 :—	
Treatises, etc. .. .. .	11
Bibliographies .. .. .	11
Museum collections .. .. .	11
Utility .. .. .	11
Technique .. .. .	11
Morphology = 0807 :—	
General .. .. .	11
Skeleton (septa, spicules) .. .. .	11
Organs .. .. .	12
Histology .. .. .	12
Physiology = 0811 :—	
General .. .. .	12
Regeneration .. .. .	13
Sex .. .. .	12
Nutrition .. .. .	12
Excretion .. .. .	12
Movement .. .. .	12
Special functions .. .. .	12
Stimuli, environmental effects .. .. .	12
Development = 0815 :—	
Growth and morphogenesis .. .. .	13
Histogenesis .. .. .	13
Reproduction .. .. .	13
Regeneration .. .. .	13
Dissogony .. .. .	13
Oogenesis .. .. .	13
Maturation and fertilization .. .. .	13
Embryology .. .. .	13
Viviparity .. .. .	13

	PAGE
Ethology = 0819:—	
Habits, behaviour .. .. .	13
Luminosity .. .. .	14
Habitat .. .. .	14
Instinct and Psychology .. .. .	14
Symbiosis; commensalism .. .. .	14
Parasitism .. .. .	14
Variation and Aetiology = 0823:—	
Variation .. .. .	14
Phylogeny .. .. .	14
Evolution .. .. .	14
Distribution = 0827	
Recent:—	
General .. .. .	14
Atlantic and adjacent seas .. .. .	14
Indian and adjacent seas .. .. .	15
Pacific and adjacent seas .. .. .	15
Arctic and Antarctic .. .. .	15
Freshwater .. .. .	15
Geological:—	
Quaternary .. .. .	15
Tertiary .. .. .	15
Secondary .. .. .	15
Primary .. .. .	16
III. SYSTEMATIC = 0831:—	
Hydrozoa (= Hydromedusae) .. .. .	16
Graphtolithida .. .. .	18
Scyphozoa (= Scyphomedusae) .. .. .	18
Anthozoa .. .. .	18
Alcyonaria .. .. .	18
Zoantharia .. .. .	22
Ctenophora .. .. .	27



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*N.B.*—Titles in round brackets refer to memoirs that have been previously recorded in the *Zoological Record*, those in square brackets refer to memoirs recorded in antecedent volumes of the *Int. Cat. Sci. Lit.*

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## II.—SUBJECT-INDEX.

*N.B.—For full reference go to Titles.*

### COMPREHENSIVE AND GENERAL.

0803

#### Treatises.

Coelenterata and Ctenophora (in Cambridge Natural History); **Hickson, 1.**

Anthozoa. [Forts.] (H. G. Bronn's Klassen u. Ordnungen des Tier-Reichs, Bd 2, Abt. 2. Lfg 2. 3.); **Carlgren, 2.**

Coelenterates, general account; **Joubin.**

#### Bibliographies.

Notice sur les titres et les travaux scientifiques de M. Charles Gravier; **Gravier, 7.**

[Jahresbericht über] Hydroidea und Acalephae (mit Ausschluss der Siphonophora) für 1896-1898; **Krumbach.**

[Jahresbericht über] Anthozoen für 1895; **May.**

[Jahresbericht über] Siphonophora und Ctenophora für 1901-1901; **Römer, 1.**

[Jahresbericht über] Graptolitida für 1901-1902; **Römer, 2.**

#### Collections.

Additions to collections of Coelenterates in the Rouen Museum between 1898 and 1905; **Pennetier.**

#### Technique.

Collecting and preserving Medusae; **Browne, 2.**

Technique for spicules, *Aleyonium digitatum*; **Woodland.**

### STRUCTURE.

0307

#### General.

(Contribution à l'étude des Hydroïdes; **Billard, 3.**)

Süsswasser-Armpolyp [general account of Coelenterate structure] (ungarisch); **Entz.**

Notes on *Eudendrium*; **Congdon.**

General account of *Perigonimus sulfureus*; **Steche.**

Graptolites; **Mæek.**—Morphology of Graptolites (*Monograptus*), compared with that of *Rhabdopleura*; **Schepotieff.**

Fossil Medusae, general account; **Fritel.**

Zooids, *Aleyonium digitatum*; **Pratt.**

Die Aleyonidengattung *Spongodes* Less. oder *Dendronephthya*; **Harms.**

A new Aleyonarian, *Bathyleyone robustum* n. g., n. sp.; **Versluys, 2.**

*Primnoidea* der Siboga-Expedition; **Versluys, 1.**

Morphology of a new Virgularian, *Scytaliopsis*; **Gravier, 1, 4.**

New form of Semper's larva, *Zoanthea galapagoensis* n. sp.; **Heath.**

(Rapports morphologiques des Hexactinides, avec les Octanthlides, le Seyphistome des Méduses et le Tétracorallia; **Faurot.**)

Morphology of recent and fossil corals; **Duerden, 2.**

Precious corals; **Hickson, 4.**

Morphologie der Rugosa; **Jakovlev.**

[General anatomy, Turbinolidae; **Gardiner, 1.]**

New tropical Ctenophore (*Dogielia*); **Pedaschenko.**

Morphology of *Coeloplana*, points of comparison with Ctenophores; **Abbott.**

#### Skeleton (septa, spicules).

The primary septa in Rugose corals (*Madreporaria*); **Duerden, 1, 5.**

(The fossula in Rugose Corals; **Duerden, 6.**)

Primary septal plan, Rugosa; **Caruthers.**

Skeleton of *Porites*; **Bernard, 1.**

Exothecal processes of *Rhizophyllum*; **Shearsby**.

Structure of spicules, *Alcyonium digitatum*, etc.; **Woodland**.

Spicules, *Bebryce indica*; **Thomson**.

### Organs.

Intrapolypal tentacles (Madreporaria); **Duerden, 4**.

Digestive organs, Alcyonaria; **Pratt**.

Sense organs, *Cunoctantha fowleri* sp. n.; **Browne, 2**.

### Histology.

Histology, general, *Alcyonium digitatum*; **Woodland**.

Hydroid stolons; **Billard, 3**.

Lime-forming layer, Madreporarian polyp; **Gordon, M. M.**

Mesogloæal cell plexus, Alcyonaria; **Pratt**.

## PHYSIOLOGY. 0811

### General.

Remarks on the physiology of the Zoantharia; **Duerden, 2**.

On the causes of regeneration and polarity in *Tubularia*; **Morgan**.

Light as a factor in the regeneration of hydroids, *Eudendrium*; **Goldfarb**.

### Sex.

Ueber Geschlechtsentwicklung von *Hydra fusca*; **Hertwig**.

Sexual dimorphism in *Aglaophenia*; **Torrey and Martin**.

### Nutrition.

Feeding experiments, *Fungia, Favia*; **Duerden, 4**.—Feeding experiments, *Alcyonium digitatum*; **Pratt**.—Stomodæal currents, *Fungia*; **Duerden, 3**.

Effects of hunger in *Hydra fusca*, histological alterations, influence on sex; **Schultz**.

### Excretion.

Excretion, Alcyonaria; **Pratt**.

### Movement.

On the locomotion of a sea anemone (*Metridium marginatum*); **McClendon**.

Eigentümlicher Ortswechsel einer Seerose; **Müllegger**.

Rhythmical pulsation in Scyphomedusae; **Mayer**.

The reversal of ciliary movement in Metazoans, (Experiments on *Metridium marginatum*.); **Parker, 1**.

The movements of the swimming-plates in Ctenophores, with reference to the theories of ciliary metachronism; **Parker, 2**.

Relation between contractibility and coagulation of the colloids in the Ctenophore swimming-plate; **Lillie**.

### Special Functions.

Rôle of mucus in corals; **Duerden, 3**.

Functions of mesogloæal plexus, Alcyonaria; **Pratt**.

Nervous function, Alcyonaria; **Pratt**.

### Environmental effects; stimuli.

Modifiability in behaviour (of sea-anemones); **Jennings**.

Biological studies on *Corymorpha, C. palma* and environment; **Torrey, 1**.

Reactions of *Tubularia crocea*; **Pearse**.

Sur les courbures (de *Actinoloba*) dues à la lumière; **Bohn, 1**.

Mouvements en relation avec l'assimilation pigmentaire (et variation de l'éclairement) (*Anthea*); **Bohn, 2**.

Movements of *Virgularidae* on becoming gradually exposed to air, i.e., in response to ebb and flow of tides; **Gravier, 2, 5**.

Physiology of expansion and retraction in *Actinia*; **Piéron**.

Rhéotropisme de quelques Hydroïdes monosiphonés; **Hallez**.

Galvanotropic reactions of the Medusa *Polyorchis penicillata*; **Bancroft, 1**.

*Hydra* spp., comparative resistance to CO<sub>2</sub>; behaviour of the zoochlorellae in relation to the egg in darkness; **Hadži**.

## DEVELOPMENT. 0815

## Growth and morphogenesis.

Metameric growth, *Porites*; **Bernard, 2**.

Über den Septennachwuchs der *Eupsamminidae*; v. **Marenzeller**.

Morphogenie der *Rugosa*; **Jakowlew**.

## Histogenesis.

Spicule formation, *Alcyonium digitatum*; **Woodland**.

## Reproduction.

Ueber Knospung von *Hydra fusca*; **Hertwig**.

(Colony-formation and stolonization in Hydroids; **Billard, 3**.)

Asexual reproduction, *Limnocnida tanganoica*; **Günther**.

Reproduction of *Metridium marginatum* by fragmental fission; **Hammatt**.

Asexual reproduction, *Schizocladium ramosum*; **Browne, 3**.

Reproduction, *Microhydra ryderi*; **Browne, 3**.

## Regeneration.

Experimental study of light as a factor in the regeneration of Hydroids (*Eudendrium*); **Goldfarb**.

Form-regulation in *Cerianthus*; regeneration and proportion; **Child**.

Regeneration in *Rhizostoma pulmo*; **Hargitt, 3**; in *Metridium*, **Hahn**.

Hydranth-formation and polarity in *Tubularia*; **Morgan, 1**.—An attempt to analyze the phenomena of polarity in *Tubularia*; **Morgan, 2**.—Experiments on polarity in *Tubularia*; **Morgan** and **Stevens**.

## Dissogony.

A new tropical Ctenophore (*Dogielia*); **Pedaschenko**.

## Oogenesis.

The organization and early development of the egg of *Clava leptostyla*; **Hargitt, 1**.

## Maturation and fertilization.

Maturation and fertilization of ovum, *Alcyonium digitatum*; **Hill**.

## Embryology.

Experimental embryology, *Hydra* **Hadži**.

Development of *Eudendrium*; **Congdon**.

*Cunina proboscidea*, Entwicklung; **Stschelkanowzew**.

Medusa-buds, *Cunocantha fouleri* sp. n.; **Browne, 2**.

Rearing *Aurelia aurita* and *Pelagia perla*; **Delap, 1**.

(Embryogonie des Hexactinides; **Faurot**.)

Actinien-Larven; **Carlgren, 1**.

Development of recent and fossil corals; **Duerden, 2**.

Early stages in Paleozoic corals; **Gordon, C. E.**

*Siderastrea radians* and its post-larval development (by J. E. Duerden, review of); **W**.

## Viviparity.

Lebendiggebärende Arten von Alcyonaceen; **Thomson und Henderson, 2, 3**.

## ETHOLOGY. 0819

## Habits; behaviour.

Behaviour of *Metridium*; **Allabach**.

Behaviour of *Gonionemus*; **Morse**, also **Yerkes**.

Sur la biologie des Virgulaires; **Gravier, 2, 5.**

Les Eolidiens empruntent leurs nématocystes aux Cœlentérés dont ils se nourrissent; **Cuénot.**

Living polyps, *Porites*; **Bernard, 1.**

Bruthöhle bei *Plumarella delicatissima*; **Versluys.**

### Luminosity.

Notes on photogenic Coelenterata; **McIntosh.**

Phosphorescence in Ctenophores; **Peters.**

### Habitat.

Pelagic animals, *Perigonimus sulfureus* as a type; **Steche.**

### Instinct and Psychology.

Beobachtungen über das Leben der Hydren; **Oelzelt-Newin.**

Le rythme des marées et le phénomène de l'anticipation réflexe (chez l'*Actinia*); **Bohn et Piéron.**—La réaction aux marées par anticipation réflexe chez *Actinia equina*; **Piéron.**

### Symbiosis and commensalism.

Symbiosis, *Jousseaumia* (Eulamelli-branch) with *Heteroeyathus* and *Heteropsammia*; **Bourne.**

Crab, infesting Madreporian, Andaman Is.; **Henderson.**

Zoochlorellae, Alcyonaria; **Pratt.**

Commensalisme de jeunes *Caranx* et de *Rhizostomidae*; **Pellegrin.**

### Parasitism.

Parasite de *Corynactis viridis*, (mésoglaea), un Copépode, *Mesoglicola delagei* (n. g., n. sp.); **Quidor.**

### VARIATION AND AETIOLOGY.

0823

### Variation.

Among Scyphomedusae; **Hargitt, 2.**

(Of *Rhegmatodes*; **Hargitt, 4.**)

Dimorphism in *Metridium*; **Hahn.**

### Phylogeny.

The primary hexamerism in Rugose corals, as establishing the relationship of Rugosa to the other Anthozoa; **Duerden, 1, 5.**

[Relationship of the *Monograptidae* with *Rhabdopleura*, rather than with Coelenterates; **Schepotieff.**]

### Evolution.

Die Stammesgeschichte der Alcyonaceen; **Kükenthal, 3, 4.**

### DISTRIBUTION (GEOGRAPHY).

0827

#### 1. Recent.

#### General.

Die geographische Verbreitung der Alcyonaceen; **Kükenthal, 3, 4.**

#### Atlantic and adjacent seas.

Ireland, Valencia harbour, planktonic Coelenterates, with monthly distribution; **Delap, 2.**

British coasts, *Muggiaea atlantica*, distribution and migrations; **Gough.**

Firth of Clyde, *Trichorhiza brunnea*, gen. n.; **Russell.**

Biscayan Hydromedusae, (*Cumoctantha* sp. n.) and Scyphomedusae; **Browne, 2.**

Atlantique, côtes de l'Espagne, Algérie, Hydroïdes du *Travailleur* et du *Talisman*; **Billard, 1, 2.**

Mediterranean, Brionian islands (Pola), *Alcyonium brioniense*, n. sp.; **Kükenthal, 1.**

[Atlantic Ocean (off Morocco), *Pennatulidae*, du "Travailleur" et du "Talisman"; **Roule, 2.**]

River Niger, *Limnoenida tanganicae*; **Browne, 1.**

Western coast of Africa, Hydroïdes; **Billard, 2.**

West coast of Africa (Isle San Thomé, Gulf of Guinea), occurrence of corals; **Gravier, 3.**

South African coast (Cape of Good Hope), Alcyonaria, with n. spp.; **Hickson, 2.**

[South African coast, *Turbinolidae*; **Gardner, 1.**]

Brazil, *Astrangia*, n. spp.; **Vaughan, 2.**

West Indian and Atlantic forms of *Porites*; **Bernard, 2.**

Isle of Anticosti, Gulf St. Lawrence, Coelenterates; **Schmitt.**

### Indian Ocean and adjacent seas. *f, m*

Djibouti, un type nouveau de Virgulinaire (*Scytaliopsis* n. g.); **Gravier, 1, 4.**

Red Sea, deep-sea and reef corals; v. **Marenzeller.**

Zanzibar and British East Africa, Alcyonaria, with n. spp.. **Thomson and Henderson, 1.**

Natal coast, *Halocordyle coopeyi* and *Tubularia solitaria*, spp. n.; **Warren, 1, 2.**

Indian Ocean, Alcyonaria, **Thomson and Henderson, 2.**

Ceylon, Alcyonaria, with spp. n.; **Thomson.**

Indo-Pacific forms of *Porites*, **Bernard, 1.**

### Pacific Ocean and adjacent coasts.

Eastern Tropical Pacific, Madreporaria with n. spp.; **Vaughan, 3.**

Malay Archipelago, *Primnoidae*, with n. spp.; **Versluys, 1.**

Malay Archipelago, *Doqielia* gen. n. *malayana* sp. n.; new Ctenophore, **Pedaschenko.**

Ceram Sea, *Bathyalcyon robustum* gen. et sp. n. (Alcyonaria); **Versluys, 2.**

Japan, Alcyonacen, with new forms; **Kükenthal, 2, 6.**

Australia and New Zealand, Madreporaria, (recent); **Dennant.**

Cuvier Islands, New Zealand, occurrence of *Flabellium rugulosum*, living; **Suter.**

Polynesia, corals met with, forming the coral islands; **Seurat.**

Medusae of the Hawaiian Islands **Mayer.**

California, *Coenocyalthus* sp. n.; **Vaughan, 2.**

### Arctic and Antarctic areas. *k, o*

Die arktischen Medusen (ausschliesslich der Polypomedusen); **Maas, 1.**

Die Alcyonaceen der Olga-Expedition (1898). [Zoolog. Ergebnisse e. Untersuchungsfahrt nach der Bäreninsel u. Westspitzbergen, VII.]; **Kükenthal, 5.**

[Antarctic and subantarctic seas (Falklands, St. Georgia, etc.), Hydroids; **Jäderholm.**]

Antarctic Medusae, *Homoeomema* sp. n. *Phialidium* sp. n.; **Maas, 2.**

### Fresh-water.

*Hydra* aus der Mongolei; **Daday.**

Lake Tanganyika, *Limnocyclus tan-ganicae*; **Günther.**

Known freshwater Medusae; **Potts.**

### 2. Fossil.

#### Quaternary.

Postpliocene, Salustro near Catania, Anthozoa; **Scalia.**

#### Tertiary.

Upper Miocene, Gourbesville, English Channel, Corals, noted; **Dollfus.**

Miocene, Bouches-du-Rhone and Piedmont, forms of *Porites*; **Bernard, 2.**

Miocene, Eastern Egypt, Abu Roash and Sinai, Zoantharia, with new forms; **Gregory.**

Miocene, Batangas Province, Philippines, *Cycloseris hidalgi* sp. n.; **Smith.**

Eocene and Oligocene, "Priabon-schichten" Precista (Macedonia), Corals; **Oppenheim.**

Eocene, Paris Basin, two forms of *Porites*; **Bernard, 2.**

Eocene, Corio Bay (Australia), Actinozoa; **Mulder, 1.**

#### Secondary.

Cretaceous (Campanien inférieur), South-East France, (Zone du Plan d'Aups), Anthozoa; **Repelin.**

Cretaceous, East Galicia, New Corals; **Felix**.

Cretaceous, Tripoli, *Cyclolites polymorpha*; **Krumbeck**.

Jurassic (Bathonian), St. Gaultier, (dep. Indre), Corals; **Koby**.

Jurassic (Tithonian and Bathonian), Sardinia, new Tabulate Corals and Hydroids; **Deninger**.

Jurassic ("lithographischen Schiefer"), a new Medusa, *Paraphyllites* n. g.; **Maas, 3**.

Trias, Kotel (Bulgaria), Anthozoa, with n. spp.; **Bakalow, 2**.

Trias, (grès Vosgien), Nancy (Epinal), Graptolites; **Noël**.

### Primary.

Contribution to Indiana paleontology, (Zooantharia); **Greene**.

Die paläozoischen Gebilde Podoliens; **Siemiradzki**.

Palaeozoic, South Africa, *Zaphrentis zebra*, n. sp.; **Schwarz**.

Carboniferous, Avon gorge (Avonian), various corals; **Vaughan, A**.

Carboniferous, Mendip area, *Campophyllum* sp. n., *Carcinophyllum* sp. n.; **Sibly**.

Carboniferous, North Shropshire, Denbighshire and Flintshire, various corals, **Hind and Stobbs**.

Carboniferous, (marine), Hungary, Anthozoa; **Frech**.

Devonian, Western New York, Coelenterates; **Slocum**.

Upper Silurian, New South Wales, *Rhizophyllum* sp. n.; **Shearsby**.

Silurian, Ingleborough, Graptolites; **Hughes**.

Silurian, (Taranon series), lists of Graptolites and comparisons with other areas; **Wood, 2**.

Middle Silurian, Norway, account of the *Heliolitidae*; **Kiær**.

Silurian, Beechy Island, Lancaster Sound, *Boreaster lovi* n. g. n. sp., Cape Chidley, Hudson Strait, *Labyrinthites chidleyensis* n. g. n. sp.; **Lambe**.

Silurian, island of Anticosti (Gulf St. Lawrence), Anthozoa; **Schmitt**.

Silurian and Ordovician, Victoria Graptolites; **Hall**.

Ordovician and Silurian, British forms of *Climacograptus*; **Elles and Wood**.

Ordovician and Silurian, Bolivia, Graptolites; **Wood, 1**.

Ordovician, Western Caermarthen-shire, Corals and Graptolites; **Evans**.

Ordovician, (Zones of Scanian and Vestrogöthian *Phyllo-Tetragraptus* beds), Flagabro and Mossebo, Graptolites; **Törnquist**.

Mid-Cambrian, Shantung, China, *Lophophyllum frechi*, n. sp.; **Lorenz**.

Cambrian, China, *Coscinoeyathus* n. sp.; **Walcott**.

### III.—SYSTEMATIC. 0831

*HYDROZOA* (= *HYDROMEDUSAE*).

*Aglaophenia*, sexual dimorphism, **TORREY and MARTIN**, Berkeley, Univ., Cal. Pub., Zool., **3**, (47-52, with figg.).

*Antennularia ramosa* var. n. *plumularioides*, **BILLARD**, Bul. Muséum, **12**, (333).

*Campanularia hincskii* var. n. *grandis*, **BILLARD**, Bul. Muséum, Paris, **12**, (330).—*C. pelagica*, Nordsee, **BREEMEN**, Helder, Verh. Onderz. Zee, **1**, (1-8, 1 Taf.).

*Corymorpha palma*, environmental effects, **TORREY**, J. Exp. Zool., **1**, (395-422).

*Cunina proboscidea*, Entwicklung **STSCHELANOWZEW**, Mitt. zool. Stat. Neapel, **17**, (433-486, 2 Taf.).

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*Eudendrium ramosum* and *hargitti*, notes on morphology and development, **CONGDON**, Biol. Bull., **11**, (27-46).

*Halocordyle cooperi*, sp. n., Natal Coast, **WARREN**, Ann. Nat. Govt. Mus., **1**, 1906, (73, pl. ix).

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*Microhydra ryderi*, general structure, (636); compared with *Limnocodium*, (638); reproduction, (641); BROWNE, Q. J. Microsc. Sci., **50**, pl. xxxvii.—*M. r.*, medusa, POTTS, Q. J. Microsc. Sci., **50**, (623, pl. xxxvi).

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## ALCYONARIA.

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Alcyonacea, KÜKENTHAL, *Wissenschaft. Ergebnisse d. D. Tiefsee-Expedition*, **13**, Lfg 1, (1-111, 12 Taf.), also, *Verh. D. Zool. Ges.*, **16**, (138-149).

Alcyonaceen der Olga-Expedition (1898). (*Zoolog. Ergebnisse e. Untersuchungs-fahrt nach der Bäreninsel u. Westspitzbergen*, vii.) KÜKENTHAL, *Wiss. Meeresunters.*, (N.F.), **8**, Abt. Helgoland, (19-30, 1 Taf.).

*Aeamplogorgia gracilis* Ceylon, (177, figs. 12 and 13), *A. rubra* Ceylon, (178, figs. 5-8), **spp. n.**, THOMSON, London, R. Soc. Rep. Pearl Oyster, **4**.

*Alcyonium briouiense* **sp. n.** Mittelmeer, KÜKENTHAL, *Jenaische Zs. Natw.*, **42**, (61-72, 1 Taf.).—*A. digitatum*, maturation and fertilization, HILL, (493-505), *Q. J. Microsc. Sci.*, London, **49**; *A. d.*, histology, spicule formation and structure, WOODLAND, *Q. J. Microsc. Sci.*, London, **49**, (283-304, pls. xvi and xvii).—*A. gracillimum* **sp. n.** Japan, KÜKENTHAL, *Zool. Anz.*, **30**, (284), also in *Beiträge Naturgesch. Ostasiens*, **1906**, (34, pl. ii, fig. 13).—*A. pachyclados* Klauzinger, THOMSON and HENDERSON, (416), London, *Proc. Zool. Soc.*, **1906**.—*A. purpureum* **sp. n.** Cape of Good Hope, HICKSON, (215-217, pl. v, fig. 1, and pl. ix, fig. 18), Cape Town, *Marin. Invest.*, **3**.—*A. valdiviae* Agulhasbank (42, pl. iii, fig. 11, pl. viii, fig. 39), *novarae* Kap (48, 1 pl.), *contortum* (50, pl. vii, figs. 34-36, pl. viii, figs. 37-38), *membranaceum* (52, pl. i, fig. 3, pl. ix, figs. 42-44), Francis-Bay, *reptans* Antarctic (53, pl. ii, fig. 9, pl. ix, figs. 45-49), **spp. n.**, KÜKENTHAL, *Wiss. Ergebn. D. Tiefsee-Exp.*, **13**, i.

*Anthelia japonica* **sp. n.** Japan, KÜKENTHAL, *Zool. Anz.*, **30**, (281), and in *Beiträge Naturgesch. Ostasiens*, **1906**, (13, pl. v, fig. 28).

*Anthomastus elegans* Agulhasbank (64, pl. ii, figs. 6 and 7, pl. xi, figs. 63-66).—*A. antarcticus* **sp. n.**, (62, pl. ii, fig. 8, pl. xi, figs. 57-62), KÜKENTHAL, *Wiss. Ergebn. D. Tiefsee Expd.*, **13**, i.—*A. grandiflorus* Verill, HICKSON, Cape Town, *Marin. Invest.*, **3**, (219, pl. vii, fig. 2).

*Anthoptilum grandiflorum* Verill, HICKSON, T.c., (233-235, pl. viii, fig. 14).

*Bathyalcyon* **gen. n.**, *robustum* **sp. n.** Ceram-See, VERSLUYS, *Zool. Anz.*, **30**, (549-553).

*Bebruce indica* **sp. n.** Ceylon; spicules, THOMSON, London, R. Soc. Rep. Pearl Oyster, **4**, (175, fig. 3).

†*Boreaster* **gen. n.** allied to *Favosites*, *lowi* **sp. n.** Silurian, Canada, LAMBE, "Cruise of the 'Neptune,'" **1906**, (323).

*Caligorgia affinis* (76-77), *joubini* (67-69), *minuta* (78), *pennacea* (66), *robusta* (72-73), *similis* (79), *tuberculata* (80-81), *weltneri* (73-74), **spp. n.** Ost. Indischen Archipel., VERSLUYS, *Rés. Explor. Siboga*, Livr. **27**, Monogr. **13a**, (10 pls.).—*C. versluysi* Ceylon **sp. n.** THOMSON, (172, figs. 6 and 15); compared with other **spp.**, VERSLUYS, (173-175), London, R. Soc. Rep. Pearl Oyster, **4**.

*Calyptrophora mariae* (107), *herberti* (105), **spp. n.** Malayischer Archipel und Japan, VERSLUYS, *Primnoidae*, *Rés. explor. Siboga*, Livr. **27**, Monogr. **13a**, (10 pls.).

*Ceratoisis ramosa* **sp. n.** Cape of Good Hope, HICKSON, Cape Town, *Marin. Invest.*, **3**, (224-225, pl. vii, figs. 2 and 3, pl. viii, fig. 12),

*Cespitularia coerulesca* May, variation, THOMSON and HENDERSON, London, *Proc. Zool. Soc.*, **1906**, (414-415).

*Chironophthya indica* **sp. n.** Ceylon, THOMSON, London, R. Soc. Rep. Pearl Oyster, **4**, (170, figs. 1 and 14),

*Clavularia*, specific differences (399-401), table of species, polyyps and spicules (408); *garvieae* Hickson and var. *inermis* nov. (401); *flava* May (non Hickson) pl. xxx, fig. 4; *gracilis* May (402); *reptans* Hickson, *strumosa* Ehrenberg, calcareous bodies (403); *margariti*; *ferae* Thompson and Henderson, *crosslandi* (404, pl. xxx, fig. 6), *pulchra*, *zanzibarensis* (405), *mollis* Zanzibar, *parvula* Cape Verde Is. (406), *pregnans* Zanzibar (407, pl. xxx, fig. 3), **spp. n.**, THOMSON and HENDERSON, London, *Proc. Zool. Soc.*, **1906**.—*C. chuni* **sp. n.** Indian Ocean, KÜKENTHAL, *Wiss. Ergebn. D. Tiefsee-Exp.*, **13**, i, (16, pl. i, figs. 1, 2, pl. iv, figs. 16-21)—*C. cburnea* (14, pl. i, fig. 1), *peterseni* (16, pl. i, fig. 2), *dispersa* (18, pl. i, fig. 3) **spp. n.** Japan, KÜKENTHAL, *Beiträge Naturgesch. Ostasiens*, **1906**, also in *Zool. Anz.*, **30**, (281-282).

*Coelogorgia palmosa* Wright and Studer, var. (435), *repens* sp. n. Brit. East Africa (436, pl. xxxi, fig. 1), THOMSON and HENDERSON, London, Proc. Zool. Soc., 1906.

*Corallium*, economic notes, etc. HICKSON, Manchester, Trans. Microsc. Soc., 1905, (29-38).

*Dasystenella* subgen. n. of *Stenella*, für *St. acanthina*, VERSLUYS, *Primnoïdæ*, Rés. explor. Siboga, Livr. 27, Monogr. 13a, (39 and 48).

*Dendronephthya acaulis* (40, pl. iv, fig. 24), *fligra* (44, pl. iv, fig. 22), *maxima* (46, fig. 27), *punctata* (42, fig. 23), *queriformis* (50, fig. 26), *densa* (52) spp. n. Japan, KÜKENTHAL, Beiträge Naturgesch. Ostasiens, 1906, and in Zool. Anz., 30, (284-287).

*Eugorgia gilchristi* sp. n. Cape of Good Hope, HICKSON, Cape Town Marin. Invest., 3, (230-231, pl. ix, figs. 15 and 19).

*Eunephthya antarctica* sp. n., KÜKENTHAL, Wiss. Ergebn. D. Tiefsee Exped., 13, i, (75, pl. iii, figs. 14 and 15, pl. xii, figs. 69-78).—*E. clavata* var. n. *pellucida* (23, pl. i, fig. 2), *rosea* var. n. *umbellata* (26, pl. i, figs. 3 and 6), "Olga" Exped., KÜKENTHAL, Wiss. Meeresunters., 8.—*E. japonica* (65, pl. iii, fig. 16), *spiculosa* (67, fig. 17) spp. n. Japan, KÜKENTHAL, Beiträge Naturgesch. Ostasiens, 1906, and in Zool. Anz., 30, (287-288).

*Eunicella papillosa*, suggested transference to *Gorgoniidae*, HICKSON, Cape Town Marin. Invest., 3, (228).

†*Favosites agaricus, decorum, fustus* spp. n., GREENE, Contribution to Indiana Palaeontology, 2, pt. 3.—*F. aspera, bowerbanki, forbesi, gottlandica, hisingeri*, SIEMIRADZKI, Wien, Beitr. Pal. Geol., OestUng., 19, (213-286).

*Fusticularia herdmanni* Simpson, THOMSON, London, R. Soc. Rep. Pearl Oyster, 4, (182).

*Gersemia marenzelleri* sp. n. Japan, KÜKENTHAL, Zool. Anz., 30, (287), also in Beiträge Naturgesch. Ostasiens, 1906, (64, pl. iii, fig. 15).

*Gorgonia albicans* Köll., coenenchym, HICKSON, Cape Town Marin. Invest., 3, (228-229).

†*Heliolites, decipiens, dubius, insterstinctus, megastoma, porosa*, SIEMIRADZKI, Wien, Beitr. Pal. Geol. OestUng., 19, (213-286).

†*Heliolitidae*, Mid-Silurian, general account of the family and classificatory revision, KLÆR, Kristiania, Skr. Vid. Selsk., 1903, No. 10, (1-58).

*Heterozenia elizabethæ* Kölliker, variation, THOMSON and HENDERSON, London, Proc. Zool. Soc., 1906, (413).

*Isis*, remarks on genus, (421-425), literature, (433), SIMPSON, London, J. Linn. Soc. Zool., 29.—*I. hippuris*, general structure, (425-432, pl. xliii) *id.*, T.c.

*Juncella spiralis* Cape of Good Hope sp. n., (231-233, pl. viii, figs. 6-9); *J. elongata* var. *capensis* nov. (233), HICKSON, Cape Town Marin. Invest., 3.

*Kophobelemnon bathyptiloides* sp. n. Atlantic Ocean, ROULE, Bul. Muséum, Paris, 11, (455).

†*Labyrinthites* gen. n. allied to *Paly-sites*, for *L. chidlensis* sp. n. Silurian, Canada, LAMBE, in "Cruise of the 'Neptune,'" 1906, (327).

*Leptogorgia ochracea* sp. n. Cape Verde Is., THOMSON and HENDERSON, London, Proc. Zool. Soc., 1906, (431, pl. xxix, fig. 1).

*Lithophytum elegans* (Kükenthal) (= *Amuolthea elegans* May), *L. viride* (Kük.) (= *A. viridis* May), *L. brassicum* (Kük.) (= *A. brassica* May) (426), *L. thyrsoïdes* (Kük.) (= *A. thyrsoïdes* Ehrenberg), var. *durum*, nov., *flavum* May (427), THOMSON and HENDERSON, London, Proc. Zool. Soc., 1906.

*Lophogorgia crista* Möbius var., comparison with *lütkeni* Wright and Studer (432, pl. xxix, figs. 5-7), *lütkeni* Wright and Studer (433), THOMSON and HENDERSON, T.c.

*Malacogorgiidae* fam. n., defined (226), *Malacogorgia* gen. n. (227), *capensis* Cape of good Hope sp. n., (226-227, pl. vii, fig. 5, and pl. viii, figs. 10 and 11), HICKSON, Cape Town Marin. Invest., 3.

†*Michelinia favosa*, Carboniferous Hungary, FRECH, Földt. Közl., 36, (8 and 110, pl. vii, fig. 1, pl. viii, fig. 1).

†*Monotrypa sardoa* (62, pl. v, fig. 1), *pontica* (63, fig. 2), *multitabulata* (63, fig. 3), *limitata* (64, pl. vi, fig. 4), *favei* (64, fig. 5) spp. n. Sardinia, DENINGER, N. Jahrb. Min., 1906, i.

†*Monticulipora fletscheri*, *papillata*, *pulchella*, SIEMIRADZKI, Wien, Beitr. Pal. Geol. OestUng., 19.

*Muricella complanata* Wright and Studer var (178); *rubra* Ceylon sp. n. (179; figs. 2 and 7), THOMSON, London, R. Soc. Rep. Pearl Oyster, 4.

*Navella divaricata* Studer gehört zu *Primnoella*, VERSLUYS, *Primnoidea*, Rés. explor. Siboga, Livr. 27, Monogr. 13a, (38, 49).

*Nephtya zanzibarensis* sp. n. Brit. East Africa, (421, pl. xxvii, fig. 3), var. *mollis* nov. fig. 5, *annata* sp. n., Brit. East Africa, (422); THOMSON and HENDERSON, London, Proc. Zool. Soc., 1906.

*Nidalia grandiflora* (24, pl. i, figg. 6 and 7), *unicolor* (26, fig. 4); *doffeini* (27, pl. ii, fig. 8 and 9); *macrospina* (30, figg. 11 and 12); *pellucida* (27, fig. 10), spp. n., Japan, KÜKENTHAL, Beiträge Naturgeschichte Ostasiens, 1906, also in Zool. Anz., 30, (232-283), and in Wiss. Ergebn. D. Tiefsee-Exp., 13, i, (31 and 35).

*Nidaliinae* subfam. n., KÜKENTHAL, Wiss. Ergebn. D. Tiefsee-Exp., 13, i, (27).

*Nidaliopsis* gen. n., (27, 37), *pygmaea* sp. n., Kongobecken (38, pl. ii, fig. 10, pl. x, figs. 50-56), KÜKENTHAL, Wiss. Ergebn. D. Tiefsee-Exp., 13, i.

†*Parachaetetes* gen. n., *tornquisti* sp. n., Bathonian, Sardinia, DENINGER, N. Jahrb. Min., 1906, i, (65, pl. vi, fig. 6).

*Paraspongodes striata* Thom. and Hend., THOMSON and HENDERSON, London, Proc. Zool. Soc., 1906, (1), (428).

*Parastenella* subgen. n., für *Stenella doederleini*, *spinosa* und *ramosa*, VERSLUYS, *Primnoidea*, Rés. explor. Siboga, Livr. 27, Monogr. 13a, (39, 45-47).

*Phumarella flabellata* sp. n., (*Primnoidea*), Japan, VERSLUYS, Rés. explor. Siboga, Livr. 27, Monogr. 13a, (16-18).—*P. grimaldii* Studer ist eine *Caligorgia*, VERSLUYS, *Primnoidea*, Rés. explor. Siboga, Livr. 27, Monogr. 13a, (57).

(N-9720 i)

*Primnoa ellisii* von Koch synonym mit *Caligorgia verticillata* Pallas, VERSLUYS, T.c. (60).

*Primnoidea* der Siboga-Expedition, VERSLUYS, Rés. explor. zool., aux Indes Néerl. Or. 1899-1900, à bord du Siboga, Livr. 27, Monogr. 13a, (187 pp., 10 pl.).

*Pteroides echinatum* sp. n. Atlantic, ROULE, Bul. Muséum, Paris, 11, (457).—*P. brachycaulon* Kolliker, (pl. xxvi, fig. 3); *rigidum* sp. n., Brit. East Africa, (438, figs. 1 and 2); *pulchellum* sp. n., Brit. East Africa, (439, pl. xxvii, figs. 1 and 2), THOMSON and HENDERSON, London, Proc. Zool. Soc., 1906.

*Pterostenella* subgen. n. für *Stenella plumatilis* (M. Edwards), VERSLUYS, *Primnoidea*, Rés. explor. Siboga, Livr. 27, Monogr. 13a, (39-42).

*Sarcophyllum bollousi* sp. n. New Zealand, BENHAM, Zool. Anz., 31, (66).

*Sclerophyllum polydactylum* Dana, spicules, (418, pl. xxxi, fig. 2); *querei-forme* Pratt; *mareuzelleri* Pratt; *hirtum* Pratt, (419); *viride* sp. n., Zanzibar, (420, pl. xxix, figs. 2 and 3), THOMSON and HENDERSON, London, Proc. Zool. Soc., 1906.

*Scytaliopsis* gen. n. near *Scytalium*, *Virgularidae*, GRAVIER, Paris, C.-R. Acad. sci., 142, (1290-1291); *S. djiboutiensis* sp. n., GRAVIER, Bul. Muséum, Paris, 12, (291-293).

*Simularia brassica* May (416); *fungoides* Brit. East Africa sp. n., (417, text-fig. 85); THOMSON and HENDERSON, London, Proc. Zool. Soc., 1906.

*Siphonogorgia doffeini* (78, pl. iii, figg. 20 and 21), *splendens*, (80, fig. 18), spp. n. Japan, KÜKENTHAL, Beiträge Naturgesch. Ostasiens, 1906, also in Zool. Anz., 30, (288-289).—*S. intermedia* sp. n., Zanzibar, THOMSON and HENDERSON, London, Proc. Zool. Soc., 1906, (428, pl. xxx, figs. 1 and 2).

*Spongodes* (= *Dendronephthya*), Kenntnis der Gattung, HARMS, Zool. Anz., 30, (539-548).—*S. cervicornis* Wright and Studer; *involuta* Kükenthal, *putteri* Kükenthal, *polyparium* (168); *microspiculata* Putter, spicules (169), var. *ceylonensis* nov. (170), THOMSON, London, R. Soc. Rep. Pearl Oyster, 4.—*S. hemprichii* Klunzinger var., *S. crosslandi* (423, pl. xxviii, fig. 2), *zanzibaresis*, fig. 1, *kükenthali* (424, pl. xxxi,

b 6—2

fig. 5), **spp. n.**, Brit. E. Africa, THOMSON and HENDERSON, London, Proc. Zool. Soc., 1906.

*Stachyodes clavata* (98-101), *dichotoma* (88-98), *horrida* (101-103), *obscura* (90-91), *orientalis* (91-92), *parva* (96-98), Ost-Indischen Archipel. **spp. n.**; *studerii* nom. nov., VERSLUYS, Rés. Explor. Siboga, Livr. 27, Monogr. 13a.

*Stenella* sensu strict. sub-gen. n., *Stenella* Gray, fur *St. imbricata*, *johnsoni* and *gigantea*, VERSLUYS, *Primnoidae*, Rés. explor. Siboga, Livr. 27, Monogr. 13a, (42-44).

*Stephanoptilidae* fam. nov. of Penatulids, type g. *Stephanoptilum*, ROULE, Bul. Muséum, Paris, 12, (120).

*Stephanoptilum* gen. n. *intermedium* **sp. n.** Atlantic Ocean, ROULE, op. cit. 11, (455).

*Stereonephthya zanzibarensis* **sp. n.**, Zanzibar, THOMSON and HENDERSON, London, Proc. Zool. Soc., 1906, (425, pl. xxxi, figs. 3 and 4).

*Suberogorgia köllikeri* Wright and Studer, var. *zanzibarensis* nov., THOMSON and HENDERSON, l.c., (429, pl. xxix, fig. 4).—*S. k.* Wright and Studer, var. *ceylonensis* nov. (171); *S. rubra* Ceylon **sp. n.** (172, fig. 4), THOMSON, London, R. Soc. Rep. Pearl Oyster, 4.

*Symposium punctatum* May, (pl. xxix, fig. 9), variation; *coeruleum* Ehrenberg; *fuscum* **sp. n.** Zanzibar and Brit. East Africa (408, pl. xxx, fig. 5); *splendens* Zanzibar **sp. n.**, (409, pl. xxix, fig. 8), THOMSON and HENDERSON, London, Proc. Zool. Soc., 1906, 1.

†*Syringopora monroense* **sp. n.**, BEEDE, Indiana, Rep. Dept. Geol. Nat. Res., 30, (1201-1218, 1 pl.).—*S. ramulosa*, Carboniferous, Hungary, FRECH, Földt. Közl., 36, (6 and 108, pl. viii, fig. 4).—*S. cf. reticulata*, VAUGHAN, London, Q. J. Geol. Soc., 62, (313, pl. xxix, fig. 1).

*Telesto rupicola* Müller, variation; *arborea* Wright and Studer, variation; THOMSON and HENDERSON, London, Proc. Zool. Soc., 1906, (434).

*Thouarella tydemani*, *luxa* **spp. n.** Malayischer Archipel, VERSLUYS, Rés. expl. Siboga, Livr. 27, Monogr. 13a, (32-35).

*Trichogorgia* gen. n. *Dasygorgiidae*, *flexilis* **sp. n.** Cape of Good Hope, HICKSON, Cape Town, Marin. Invest., 3, (222-223, pl. viii, fig. 13, and pl. ix, figs. 16 and 17).

*Umbellula crassiflora* **sp. n.**, Atlantic Ocean, ROULE, Bul. Muséum, Paris, 11, (456).

*Virgularia loveni* Kölliker (179); *elegans* Gray; *calycina* (180, figs. 8-11), *indica* (181), **spp. n.**, Ceylon, THOMSON, London, R. Soc. Rep. Pearl Oyster, 4.—*V. mirabilis* Lamouroux, var. *pedunculata* Kölliker; *multicalycina* **sp. n.** Zanzibar, THOMSON and HENDERSON, London, Proc. Zool. Soc., 1906, (437, pl. xxvi, figs. 4 and 5).

*Wrightella erythraea* Gray (= *Mopsea erythraea* Klunz.), (430, pl. xxviii, fig. 10), *variabilis*, Brit. East Africa, **sp. n.**, (431, pl. xxviii, figs. 3-9), THOMSON and HENDERSON, London, Proc. Zool. Soc., 1906.

*Xenia antarctica* (19, pl. i, fig. 4, pl. v, figs. 22-24), *uniserta* (22, pl. i, fig. 5, pl. vi, figs. 25-29) **spp. n.**, KÜCKENTHAL, Wiss. Ergebn. D. Tiefsee-Expedn., 13, i.—X., note on species (410); *umbellata* Savigny, variation (411); *quinqueserta* May (= *umbellata* Savig. var. ?); *membranacea* Schenk; *coerulea* Ehrenberg; *ternatana* Schenk, var. *elongata*, nov. (412); *rigida* **sp. n.**, Brit. East Africa (413), THOMSON and HENDERSON, London, Proc. Zool. Soc., 1906.

#### ZOANTHARIA.

Zoantharia, GREENE. Contribution to Indiana palaeontology, Parts 1-3, Volume 2, New Albany, Ind., 1906, (1-38, pls.).

(Hexactinida, embryogénie, rapports morphologiques avec les Octanthides, le Scyphistome des Méduses, et le Tetracorallia, FAUROT, Paris, C.-R. Acad. Sci., 141, (778, 779).)

†Studies on early stages in Paleozoic corals, GORDON, Amer. J. Sci., New Haven, Conn., 21, (109-127).

†Corals, Bathonian, St. Gaultier, Koby, Abh. Schweiz. Pal. Ges., 38, No. 4, (61, 4 pls.).

Madreporaria, VAUGHAN, (Rep. Res. Exped. Eastern Tropical Pacific, 6);

Cambridge, Mass., Bull. Mus. Comp. Zool. Harvard Coll., **50**, (59-72, 10 pls.).

*Acropora mangroveensis*, (68, pl. vi, fig. 2, pl. viii, fig. 1), *diomedea*, **sp. n.**, (69, pl. 7, fig. 1, pl. 8, figs. 2, 3). VAUGHAN, Cambridge, Mass., Bull. Mus. Comp. Zool. Harvard Coll., **50**.—*A. massaensis*, *eminens*, **spp. n.**, Red Sea, names only, v. MARENZELLER, Wien, Anz. Ak. Wiss., **1906**, (85).

†*Actinacis cymatoclysta* **sp. n.**, Kreideformation Ost-Galiziens; FELIX, Berlin, Zs. D. geol. Ges., **58**, (43, pl. iii, fig. 4).

*Actinia mesambryanthemum*, movement; MÜLLEGER, Bl. Aquarienkunde, Magdeburg, **17**, (76-77).—†*A. bermudensis* var. *prunicolor* n. var., VERRILL, New Haven, Conn., Trans. Acad. Arts. Sci., **12**, (141-300).

*Actinoloba dianthus*, courbures dues à la lumière, BOHN, Paris, C.-R. soc. biol., **61**, (420-422).

*Aiptasia tagetes* var. *bicolor* var. n., VERRILL, New Haven, Conn. Trans. Acad. Arts. Sci., **12**, (141-300).

*Amplexi - Zaphrentis* subgen. n.; VAUGHAN, London, Q. J. Geol. Soc., **62**, (315, pl. xxix, fig. 7).

†*Amplexus borussicus*, *curycalyx*, SIEMIRADZKI, Wien, Beitr. Pal. Geol. OestUng., **19**, (213-286).

†*Aphyllostylus* gen. n., near *Pycnostylus*, perhaps in fam. *Zaphrentidae*, for *A. gracilis* **sp. n.** Silurian, Manitoba, WHITEAVES, Ottawa, Geol. Surv., Can., Pal. Fossils, **3** (279, pl. xxiv, fig. 1).

†*Astracomorpha zlatarskii* **sp. n.** Kotel, Bulgaria, BAKALOW, Centralbl. Min., **1905**, (482).

†*Astracopora octophylla*, (44, pl. iii, fig. 6), *hexaphylla* (45, pl. iii, fig. 7), Kreideformation Ost-Galiziens, **spp. n.**, FELIX, Berlin, Zs. D. geol. Ges., **58**.

*Astrangia brasiliensis* (848-849, pl. lxxvii, figs. 3-6), *rathbuni* (849-850, pl. lxxviii); **spp. n.**, Brazil, VAUGHAN, Washington, D.C., U. S. Nation. Mus. Proc., **30**.

†*Astrocoenia hexaphylloides* **sp. n.** Kreideformation Ost-Galiziens, FELIX, Berlin, Zs. D. geol. Ges., **58** (50, pl. iii, fig. 1).

*Balanophyllia galapagensis* **sp. n.** VAUGHAN, Cambridge, Mass. Bull. Mus. Comp. Zool. Harvard Coll., **50** (67, pl. iv fig. 2).

*Bathyactis marenzelleri* **sp. n.** VAUGHAN T.c. (66, pl. iv, fig. 1).

†*Blotrophyllum cinctosum* **sp. n.** GREENE, Contribution to Indiana Palaeontology, **2** pt. 3.

*Bunodactis xanthogrammica*, Californian shore anemone, description and synonymy, TORREY, Berkeley, Univ. Cal. Pub. Zool., **3**, (41-46, 1 pl.).—†*B. stelloides* var. n. *catenulata* and *carneola*, VERRILL, New Haven, Conn., Trans. Acad. Arts. Sci., **12**, (141-300).

†*Calamophyllia altermicosta* **sp. n.** Bathonian, St. Gaultier, Koby, Abh. Schweiz. Pal. Ges., **33**, No. 4, (29, pl. iv, figs. 4-7).

†*Campophyllum carinoides* **sp. n.** Mendip Area, (368, pl. xxxi, figs. 2a and 2b), C. sp. ? (369, fig. 3), SIBLY, London, Q. J. Geol. Soc., **62**.

†*Carcinophyllum mendipense* **sp. n.** Mendip Area, SIBLY, T.c. (369, pl. xxxi, fig. 4).

*Caryophyllia capensis*, (113, pl. v, figs. 4 a-d), S. Africa; *epithecata*, (114, pl. i, figs. 3 a-c); anatomy of soft parts, (125), **spp. n.**; *C. ephyala* (Alcock), variation, (117); *smithi*, soft parts, (126); GARDINER, Cape Town, Marin. Invest., **3**.—*C. planilamellata* **sp. n.**, DENNANT, Adelaide, S. Austral., Trans. R. Soc., **30**, (157, pl. vi, fig. 4).

*Ceratotrochus johnsoni* Duncan, GARDINER, Cape Town, Marin. Invest., **3**, (118, pl. v, figs. 5 a-c, and pl. ii, fig. M).—*C. recidivus* **sp. n.**, DENNANT, Adelaide, S. Austral., Trans. R. Soc., **30**, (159, pl. vi, figs. 1, 2).

†*Clisiophyllum curkeense* **sp. n.** Co. Dublin, VAUGHAN, London, Q. J. Geol. Soc., **62**, (320, pl. xxx, figs. 2 and 2a).—*C. sp.* (Cyathophylloid forms), SIBLY, London, Q. J. Geol. Soc., **62**, (370, pl. xxxi, figs. 5a and 5b).

†*Coenites linearis*, *intertextus*, *juniperinus*, *podolieu* **sp. n.**, SIEMIRADZKI, Wien, Beitr. Pal. Geol. OestUng., **19**, (213-286).

*Coenocyathus bowersi* **sp. n.** California, VAUGHAN, Washington, D.C., U. S. Nation. Mus. Proc., **30**, (847, 77, figs. 1-3).

*Corallinae*, classification of the genera, with enumeration and synonymy of species; YENDO, Tokyo, J. Coll. Sci., **20**, No. 12, (46).

†*Coscinocyathus elvira* sp. n. Cambrian of China, WALCOTT, Washington, D.C., U. S. Nation. Mus. Proc., **30**, (566-567).

*Cryptocœnia delauayii* sp. n. Bathonian, St. Gaultier, Koby, Abh. Schweiz. Pal. Ges., **33**, No. 4, (7, pl. ii, figg. 8, 9).

*Cyathaxonia cynodon*, septal development; DUERDEN, Ann. Mag. Nat. Hist., London, **18**, (234).—*C. rushmani*, (316, pl. xxix, figs. 3, 3a, and 3b), *contorta*, (317, figs. 4 and 4a), spp. nn. Co. Dublin, VAUGHAN, London, Q. J. Geol. Soc., **62**.

*Cyathocras cornu* (Moseley), GARDINER, Cape Town, Marin. Invest., **3**, (121).

†*Cyathophora dollfussi* sp. n. Bathonian, St. Gaultier, Koby, Abh. Schweiz. Pal. Ges., **33**, No. 4, (8, pl. iv, fig. 24).

†*Cyathophyllum angustum, articulatum, caespitosum, podolicum, remiculare*, SIEHRADZKI, Wien, Beitr. Pal. Geol. Oest-Üng., **19**, (213-286).—*C.* (caninoid forms), SIBLY, London, Q. J. Geol. Soc., **62**, (367, pl. xxxi, fig. i).—*C. pannonicum* sp. n. Lower Carboniferous, Hungary, FRECH, Földt. Közl., **36**, (27 and 130, pl. viii, fig. 2).

*Cyclolites polymorpha*, Cretaceous, S.E. France, REPELIN, Marseille, Ann. Mus., **10**, (12, pl. i, figs. 8-11).—*C. p.*, Cretaceous, Tripoli, KRUMBECK, Palaeontographica, **53**, (84, pl. vii, fig. 2).

†*Cyloscris hidalgi* sp. n., SMITH, Philippine J. Sci., **1**, (627, pl. iv, fig. 1).

†*Cystelasma tabulatum* sp. n., BEEDE, Indiana, Rep. Dept. Geol. Nat. Res., **30**, (1201-1218, 1 pl.).—*C. rugosum* and *C. quinqueseptatum*, a correction [to Cummings, E. R. and others, Fauna of the Salem limestone], BEEDE, Science, **24**, (594).

*Cystiphyllum decurrens* sp. n., GREENE, Cont. Indiana Palaeont., **2**, pt. 1.

*Dasmösmilia valida* sp. n. Red Sea, (named duly) v. MARENZELLER, Wien, Anz. Ak. Wiss., **1906**, (55).

*Dendrophyllia atrata* sp. n., DENNANT, Adelaide, S. Austr., Trans. R. Soc., **30**, (163, pl. vi, fig. 5).

*Densiphyllum* sp. (Zaphrentoid sub-div.), VAUGHAN, London, Q. J. Geol. Soc., **62**, (318, pl. xxix, fig. 6).

†*Dermosmilia bathonica* sp. n. Bathonian, St. Gaultier, Koby, Abh. Schweiz. Pal. Ges., **33**, No. 4, (30, pl. iv, figs. 2, 3).

*Desmophyllum capense* sp. n. S. Africa, GARDINER, Cape Town, Marin. Invest., **3**, (96).—*D. galapagense* sp. n., VAUGHAN, Cambridge, Mass., Bull. Mus. Comp. Zool. Harvard Coll., **50**, (63, pl. i, fig. 1).

†*Dimorpharea lentiformis* (49, pl. iii, figg. 15-21), *cosmanni* (50, figg. 22-25), spp. n., Bathonian, St. Gaultier, Koby, Abh. Schweiz. Pal. Ges., **33**, No. 4.

†*Dimorphastraea delauayii* (36, pl. iii, fig. 1), *radiata* (37, fig. 2), *irregularare* (38, figg. 3 and 4), spp. nn., Bathonian, St. Gaultier, Koby, T.C.

†*Diphyphyllum robustum, colletti* spp. n., GREENE, Cont. Indiana Palaeont., **2**, pt. 1.

†*Diplocoenia oolitica* (5, pl. ii, figs. 5-7), *dendroidea* (6, figs. 1-4), spp. n., Bathonian, St. Gaultier, Koby, Abh. Schweiz. Pal. Ges., **33**, No. 4.

*Duncanella borealis*, septal development, DUERDEN, Ann. Mag. Nat. Hist., London, **18**, (238).

*Duncania capensis* sp. n. S. Africa, GARDINER, (120, pl. i, figs. 6 a-c); soft parts, (127); Cape Town, Marin. Invest., **3**.

†*Epicystis crucifera* subsp. n. *formosa*, VERRILL, New Haven, Conn. Trans. Acad. Arts Sci., **12**, (141-300).

*Favia*, feeding experiments, mucus, DUERDEN, Q. J. Microsc. Sci., London, **49**, (602-608).—†*F. humei* sp. n. Miocene, Egypt; GREGORY, Geol. Mag., London, **3**, (52, pl. vi, fig. 2).

*Flabellum sibogae* nom. nov. for *Desmophyllum alabastrum* Alcock. GARDINER, Cape Town, Marin. Invest., **3**, (98).—*F. rugulosum* Tenison-Woods, note on, SUTER, Wellington, Trans. Proc. N. Zealand Inst., **38**, (334).

*Fungia*, feeding experiments, mucus, (592-598); stomodæal currents, (598-602); DUERDEN, Q. J. Microsc. Sci., London, 49.—*F. döderleini* sp. n., name only, Red Sea, v. MARENZELLER, Wien, Anz. Ak. Wiss., 1906, (85).—†*F. japonica*, Tertiary, Japan, (827-828, pl. lxvii); *samboagensis*, Philippine Is., (829-30, pls. lxxviii, lxxix, fig. i and lxxiv, fig. i); *madagascarensis*, Madagascar, recent, (831-32, pls. lxxii, lxxiii and lxxiv, fig. 3), spp. nn., VAUGHAN, Washington, D.C., U. S. Nat. Mus. Proc., 30.

*Goniopora*, supplementary catalogue; BERNARD, London, 1906, (146-164).

†*Heliophyllum connatum*, *inconditum* *hamiltonensis*, *inflatum*, *minutum*, spp. n.; *corniculum* var. *diaphragma* var. n., GREENE, Cont. Indiana Palaeont., 2, pt. 1.—*H. superlatum*, *subangulatum*, *tripartitum*, *intersculptum*, *intertextum*, *papulosum*, *expansum*, *dianthum*, spp. n., GREENE, T.c. pt. 3.

†*Heterastraea cvijici* sp. n. "Priabona-Schichten," Macedonia, OFFENHEIM, Zs. D. geol. Ges., 58, (151).

*Heterocyathus aequicostatus*, symbiosis with *Jousseaumia* (Eulamellibranch), BOURNE, London, R. Soc. Rep. Pearl Oyster, 5, (243).—*H. ac.*, GARDNER, (105-112, pl. iii, figs. 1-4); anatomy of soft parts, (125); Cape Town Marin. Invest., 3.

*Heteropsammia michelini*, symbiosis with *Jousseaumia* (Eulamellibranch), BOURNE, London, R. Soc. Rep. Pearl Oyster, 5, (243).

*Homophyllia incrustans* sp. n., DENNANT, Adelaide, St. Austr., Trans. R. Soc., 30, (16, pl. vi, fig. 3).

†*Hydnophyllia zuberi* sp. n., Kreideformation, Ost-Galiziens, FELIX, Berlin, Zs. D. geol. Ges., 58, (48, pl. iii, fig. 5).

†*Isastraea irregularis* sp. n., Bathonian, St. Gaultier, Koby, Abh. Schweiz Pal. Ges., 33, No. 4, (26, pl. ii, figg. 19, 20).—*I. grandiflora* sp. n., Kotel, Bulgaria, BAKALOW, Centralbl. Min., 1905, (482).

*Kionotrochus* gen. n. (allied to *Deltocyathus* and *Turbinolia*), *suteri* sp. n., New Zealand, DENNANT, Adelaide, S. Austr., Trans. R. Soc., 30, (154, pl. v, fig. 5).

†*Latimacandra meyeri* (32, pl. iii, fig. 6), *polymorpha* (33, figg. 7-14), *benoisti* (35, fig. 5), spp. n., Bathonian, St. Gaultier, Koby, Abh. Schweiz Pal. Ges., 33, No. 4.

†*Leptastraea barroni* sp. n., Miocene, Egypt; GREGORY, Geol. Mag., London, 3, (56, pl. vi, fig. 8).

*Litharæa distans* sp. n., Cretaceous, East Galicia, FELIX, Zs. D. Geol. Ges., 58, (43, fig. 3, pl. iii).

*Lithostrotion cyathophylloides* sp. n., Co. Dublin, VAUGHAN, London, Q. J. Geol. Soc., 62, (319, pl. xxx, figs. 1, 1a and 1b).

*Lophophyllum proliferum*, septal development; DUERDEN, Ann. Mag. Nat. Hist., London, 18, (299); *L. frechi*, sp. n., Mid-Cambrian, Shantung, China, LORENZ, Berlin, Zs. D. Geol. Ges., 58, (91, pl. 6, fig. 7).

*Madracis interjecta* sp. n., Red Sea, (name only), v. MARENZELLER, Wien, Anz. Ak. Wiss., 1906, (55).

*Madrepora galapagensis* sp. n., VAUGHAN, Cambridge, Mass., Bull. Mus. Comp. Zool. Harvard Coll., 50, (63, pl. i, fig. 2, pl. ii, fig. 1).

*Metridium marginatum*, reproduction by fragmental fission, HAMMATT, Amer. Nat., 40, (583-591, pl.); *M. m.* dimorphism and regeneration, HAHN, J. Exp. Zool., 2, (225-235).

†*Michelinia indianensis* sp. n., BEEDE, Indiana, Rep. Dept. Geol. Nat. Res., 30, (1201-1218, 1 pl.).—*M. geometrica* E. H., SEMIRADZKI, Wien, Beitr. Pal. Geol. OestUng, 19, (213-286).

†*Microsolenia contorta* sp. n., Bathonian, St. Gaultier, Koby, Abh. Schweiz Pal. Ges., 33, No. 4, (54, pl. ii, figs. 17-18).

*Montipora erythraea* sp. n. (named only), Red Sea, v. MARENZELLER, Wien, Anz. Ak. Wiss., 1906, (85).

*Montlivaulia cossmanni* sp. n., Bathonian, St. Gaultier, Koby, Abh. Schweiz Pal. Ges., 33, No. 4, (21, pl. iv, figs. 21, 22).

†*Mussa (Isophyllia) dipsacca* var. *aster* var. n., *M. rosula* sp. n., VERNILL, New Haven, Conn., Trans. Acad. Arts Sci., 12, (141-300).

*Notophyllia recta* sp. n., DENNANT, Adelaide, S. Austr., Trans. R. Soc., 30, (163, pl. v, fig. 4).

†*Orbicella mellahica* sp. n., (52-53, pl. vi, figs. 3, 4); *schweinfurthi* (53, fig. 5); *defrancei* (54, fig. 6); Miocene, Egypt, GREGORY, Geol. Mag., London, 3.—*O. benoisti* sp. n., Bathonian, St. Gaultier, Koby, Abh. Schweiz Pal. Ges., 33, No. 4, (23, pl. ii, fig. 10).

*Paraeyathus vittatus* sp. n., DENNANT, Adelaide, S. Austral., Trans. R. Soc., 30, (156, pl. v, fig. 3).

†*Pleurocora angelisi* sp. n., Kreideformation Ost-Galiziens, FELIX, Berlin, Zs. D. geol. Ges., 58, (47, pl. iii, fig. 2).

†*Pleurosmitia benoisti* (14, pl. i, figs. 20-25); *impressa* (15, figs. 17-19), spp. n., Bathonian, St. Gaultier, Koby, Abh. Schweiz Pal. Ges., 33, No. 4.

*Pocillopora*, intrapolyal tentacles, DUERDEN, Ann. Mag. Nat. Hist., London, 17, (466-474).—*P. diomedea* sp. n., VAUGHAN, Cambridge, Mass., Bull. Mus. Comp. Zool. Harvard Coll., 50, (65, pl. ii, fig. 2, pl. vi, fig. 1).

†*Polymorphastraea* gen. n., prov. in *Amphistraeidae*, (16), *variabilis* sp. n. (17, pl. i, figs. 1-14), Bathonian, St. Gaultier, Koby, Abh. Schweiz Pal. Ges., 33, No. 4.

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†*Prionastraea lyonsi* sp. n., Miocene, Egypt, GREGORY, Geol. Mag., London, 3, (58, pl. vii, fig. 10).

†*Proplasmoporidae* sub. fam. n. for *Plasmoporella*, KIAER, Kristiania, Skv. Vid. Selsk., 1903, No. 10, (48).

†*Protaracinae* sub. fam. n. for *Protrochiscolithus*, *Trochiscolithus* and *Protaraca* (= *Coccoseris*), KIAER, T.c. (49).

†*Protrochiscolithus* gen. n. hypoth., (perhaps for *Heliolites parasitica*), KIAER, L.c.

*Rhizophyllum robustum* sp. n. (548-550, pl. xxvi, figs. 1-6 and 19); *yassense* (fig. 7); *australe* (figs. 8, 23, 24); *interpunctatum* (figs. 9-18, 20-22); exothecal processes of the genus (550-552), SHEARSBY, Geol. Mag., London, 3.

†*Sclerosmitia bathonica* sp. n. Bathonian, St. Gaultier, Koby, Abh. Schweiz. Pal. Ges., 33, No. 4, (13, pl. i, figs. 15, 16).

*Solenastraea elliptica* sp. n. Miocene, Egypt, GREGORY, Geol. Mag. London, 3, (54-55, pl. fig. 11).

*Sphenotrochus emarciatus*, var. *perexigua* var. nov., DENNANT, Adelaide, S. Austral., Trans. R. Soc., 30, (151).—*S. gilchristi* sp. n. S. Africa, GARDINER, Cape Town Marin. Invest., 3, (98, Pl. i, fig. 1, a-g).

†*Stephanocoenia oolitica* sp. n. Bathonian, St. Gaultier, Koby, Abh. Schweiz. Pal. Ges., 33, No. 4, (11, pl. ii, figs. 21, 22).

†*Stylina tetramera* sp. n., Miocene Egypt, GREGORY, Geol. Mag., London, 3, (55-56, pl. vi, fig. 7).

†*Stylocoenia tuberculata* sp. n. Miocene Egypt, GREGORY, T.c. (57, pl. vii, figs. 9, a-b).

*Stylopora erythraea* sp. n. (name only), Red Sea, v. MARENZELLER, Wien, Anz. Ak. Wiss, 1906, (85).

†*Thamnaarea globosa* sp. n. Bathonian St. Gaultier, Koby, Abh. Schweiz. Pal. Ges., 33, No. 4, (55, pl. ii, figs. 15, 16).

†*Thamnastraea gaultierensis* sp. n. Bathonian St. Gaultier, Koby, Abh. Schweiz Pal. Ges., 33, No. 4, (40, pl. ii, figs. 11-14).—*T. grassa, profunda* spp. n. Kotel Bulgaria, BAKALOW, Centralbl. Min., 1905, (482).

†*Thecoseris dollfussi* (43, pl. iv, fig. 8), *benoisti* (44, figs. 13-16), *cossmanni* (45, fig. 17), spp. n., Bathonian, St. Gaultier, Koby, Abh. Schweiz Pal. Ges., 33, No. 4.

†*Thecosmitia delanuyi* sp. n. Bathonian St. Gaultier, Koby, T.c., (22).



†*Trematotrochus hedleyi* sp. n., DENNANT, Adelaide, S. Austral., Trans. R. Soc., **30**, (152, pl. v, fig. 1).

†*Trochoyalthus peltardi* sp. n., DENNANT, T.c. (153, pl. v, fig. 2).—*T. rawsonii* (Pourtalés) skeleton, (100-103, pl. i, figs. 2, a, b, and pl. ii, figs. A-K); soft parts (124); *cineticulatus* (Alcock) (103, pl. ii, fig. 2); GARDINER, Cape Town, Marin. Invest., **3**.

†*Trochoscymia plani alpici* Cretaceous S.W. France, REPELIN, Ann. Mus., Marscille, **10**, (13, pl. i, figs. 1-7).

*Turbinaria tenuis* sp. n. (name only), Red Sea, v. MARENZELLER, Wien, Anz. Ak. Wiss., **1906**, (85).

*Zoanbella galapagoensis* sp. n. Galapagos Isds., HEATH, Zool. Anz., **30**, (171-175).

*Zoanthus shackletoni*, Ceylon, HERDMAN, London, R. Soc. Rep. Pearl Oyster, **5**, (441).

*Zaphrentis phillipsi* Ed. and H., sequence of septa; CARRUTHERS, Ann. Mag. Nat. Hist., London, **18**, (360, pl. ix,

figs. 1-6).—*Z. cf. phillipsi* (314, fig. 13); *Z. aff. enniskilleni* (315, pl. xxix, fig. 2), VAUGHAN, London, Q. J. Geol. Soc., **62**.—*Z. pulsilla*, septal development; DUERDEN, Ann. Mag. Nat. Hist., **18**, (237).—*Z. aff. cornucopiæ*, mut. C.; SIBLY (366), London, Q. J. Geol. Soc., **62**.—†*Z. cf. intermedia*, Carboniferous, Hungary, FRECH, Földt. Közl., **36**, (28, 131, pl. ix, fig. 4).—*Z. catactus* sp. n., GREENE, Contributions to Indiana Palaeontology **2**, pt. 3.—*Z. scitululus* and *labyrinthicus*, spp. n., GREENE, T.c. pt. 1.—†*Z. zebra* sp. n. Palaeozoic, South Africa, SCHWARZ, Grahamstown, Cape Colony, Rec. Albany Mus., **1**, (360, pl. vii, fig. 12).

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*Coeloplana*, regarded as a highly-specialized Ctenophore; ABBOTT, Science, **23**, (524).

*Dogielia* gen. n. *malayana* sp. n. Malayischer Archipel, PEDASCHENKO, St. Peterburg, Trav. Soc. nat., **37**, (175-188, Taf. i-iii); deutsch. Rés. (201-211).



# V. ECHINODERMA

ARRANGED BY

A. D. IMMS and others.

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## CONTENTS.

	PAGE
CORRIGENDA to Zoological Record, 1904, 1905 .. .. .	4
I. TITLES .. . . .	5
II. SUBJECT INDEX :—	
Comprehensive and General = 1003 :—	
1. Historical and Folklore .. .. .	18
2. General Treatises, Textbooks, etc. .. .. .	18
3. Bibliography .. .. .	18
4. Pedagogy .. .. .	18
5. Museums .. .. .	18
6. Technique. . . . .	18
Structure = 1007 .. .. .	19
(a-h, refer to the Classes as under 1031, and each Class is sub-divided as follows :—)	
1. General accounts	
2. Symmetries	
3. Homologies of classes	
4. Skeletal tissue	
5. Skeletal anatomy	
6. Hydrocoel and appendages, Respiratory organs	
7. Other body-cavities and their contents	
8. Digestive system. Cuvierian organs	
9. Nervous system and sense-organs	
10. Mesodermal tissues (exc. skeletal)	
11. Axial organ	
12. Generative organs and gonads	

	PAGE
Physiology = 1011 :—	
1. General .. .. .	21
2. Circulation .. .. .	Vacant
3. Respiration .. .. .	21
4. Alimentation and Digestion .. .. .	Vacant
5. Excretion and Secretion.. .. .	21
6. Sensation .. .. .	21
7. Miscellanea and Experimental Physiology .. .. .	21

Development = 1015 :—

1. General principles .. .. .	Vacant
2. General accounts.. .. .	22
3. Formation of gonads .. .. .	22
4. Oviposition, Fertilisation, Segmentation .. .. .	22
5. Larval stages .. .. .	22
6. Organogeny, 4-12, as under 1007 .. .. .	22
7. Post-larval growth-stages .. .. .	22
8. Developmental mechanics and Experimental Embryology .. .. .	23
(a-h, refer to the Classes as under 1031)	

Ethology = 1019 :—

1. General accounts .. .. .	24
2. Special habits .. .. .	Vacant
3. Habitat .. .. .	24
4. Feeding .. .. .	24
5. Defence and Protection .. .. .	24
6. Locomotion .. .. .	24
7. Autotomy and Regeneration .. .. .	24
8. Parasites and Commensals .. .. .	24
9. Protection of young .. .. .	24
10. Sexual Dimorphism .. .. .	Vacant
11. Relation to other animals, as food, etc. .. .. .	25
12. In Geological Aspect .. .. .	25
13. Phaenology .. .. .	Vacant

Variation and Aetiology = 1023 :—

1. Variation in form and surface characters .. .. .	25
2. Variation in colour .. .. .	25
3. Variation, meristic, numerical .. .. .	25
4. Variation, meristic, homoeotic .. .. .	Vacant
5. Variation, teratological. . . . .	25
6. Variation, bionomic .. .. .	25
7. Variation, mutational .. .. .	26
8. Evolution, general principles .. .. .	26
9. Evolution, relations to other Phyla .. .. .	26
10. Evolution, phylogenetic, of smaller groups .. .. .	26

	PAGE
Distribution = 1027:—	
A. Geographical:—	
i. General .. .. .	26
ii. Atlantic Ocean and adjacent Seas ..	26
iii. Indian Ocean and adjacent Seas ..	27
iv. Pacific Ocean and adjacent Seas ..	27
v. Arctic Ocean and adjacent Seas ..	27
vi. Antarctic Ocean and adjacent Seas ..	27
B. Geological:—	
i. General .. .. .	27
ii. Cainozoic:	
(a) General .. .. .	28
(b) Pleistocene .. .. .	28
(c) Pleiocene .. .. .	28
(d) Meiocene .. .. .	28
(e) Oligocene .. .. .	29
(f) Eocene .. .. .	29
iii. Mesozoic:—	
(a) General .. .. .	29
(b) Cretaceous (1. Upper. 2. Lower) ..	29
(c) Jurassic (1. Upper. 2. Middle. 3. Lower)	30
(d) Lias (including Rhaetic) .. .. .	30
(e) Trias .. .. .	31
iv. Palaeozoic:—	
(a) General .. .. .	31
(b) Permian .. .. .	Vacant
(c) Permo-Carboniferous .. .. .	31
(d) Upper Carboniferous .. .. .	31
(e) Lower Carboniferous .. .. .	31
(f) Devonian .. .. .	31
(g) Silurian .. .. .	32
(h) Ordovician .. .. .	32
(k) Cambrian .. .. .	32
(l) Pre-Cambrian .. .. .	Vacant
III. TAXONOMY AND SYSTEMATIC INDEX = 1031:—	
A. Echinoderma, general .. .. .	32
B. Holothurioidea .. .. .	32
C. Echinoidea .. .. .	33
D. Asteroidea .. .. .	46
E. Ophiuroidea .. .. .	50
F. Crinoidea .. .. .	50
G. Cystidea and Edrioasteroidea .. .. .	54
H. Blastoidea .. .. .	54
K. Incertae Sedis .. .. .	55

*N.B. !—The numbers and letters prefixed to the items of the Contents are used for the cross-references to the Subject and Systematic Indices given at the end of each Title-entry, except that the number 10 . . . , denoting Echinoderma, is dropped to avoid needless repetition.*

CORRIGENDA in recent issues of Zoological Record,  
Echinoderma.

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Record for 1904, Vol. XLI.

P. 7.—(9) ANDERSSON, K. A. Date of publication should be 1905.

Record for 1905, Vol. XLII.

- P. 9.—(8) Airaghi, Carlo. *Atti Mus Milano*, xlvi, is an error in author's reprint for xlv.
- P. 62.—*Cidaridae*. The genera mentioned do not belong to this family.
- P. 69.—*Lamproechinus* n. g. of Temnopleuridae, not of Cidaridae.
- P. 71.—*Orechinus* n. g. of Temnopleuridae.
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### 3. Bibliography.

List of works on recent Echinoderms published in 1894, with abstracts and subject-index; **Bergmann**.

Works on *Asteroidea*, chiefly Pacific, with notes; **Fisher, 3**, (1120).

Works on development of *Ast. ovum*; **Tennent and Hogue**.

### 4. Pedagogy.

See 1007, 2 and 5.

### 5. Museums, Collections, &c.

British Museum, Geol. Dept., Exhibit of *Echinoidea Irregularia* from White Chalk; **Sherborn**.

Aquarium with asteroid and *Cucumaria frondosa*; **Derjugin**, (pl. ii).

### 6. Technique.

Staining and fixation for nerve corpuscles in *Hol.* skin; **Polara, 3**.

Deleterious effect on *Hol.* of formol and acetic acid; **Vaney, 3**, (1).

Preparation of body-wall for study of spicules, *Cucumariidae*; **Woodland**, (534, 551).

Staining *Ech. ova intra vitam*; **Fischel, 2**, (535).

Preservation, decalcification, and staining recent *Echinothuridae*; **Schurig**.

Staining, decalcification, conservation, for nerve-system *Ast*; **Meyer**, (96-100, and passim).

Fixation and staining oocyte *Antedon*; **Chubb, 2**, (449).

Photography of recent *Ech.*; **Doederlein, 2**, (64).

Radiography of fossil Clypeastroids; **Lambert, 1**, (57).

Röntgen rays expose internal pillars of fossil *Mellita* (fig.), *Clypeaster*, *Amphiope*; **Branco**, (18).

Method of collection and biometry of *Pentremites*; **Smith**, (1220).

Technical terms in description of *Asteroidea*, glossary; **Fisher, 3**, (1118).

## II.—SUBJECT INDEX.

N.B.—For full Reference, go to Titles.

### COMPREHENSIVE AND GENERAL

1003

#### 1. Historical and Folklore.

History of discovery of Echinothuridae; **Schurig**, (293).

History of name *Calveria*; **Bather, 1**.

*Sphaerechinus granularis* "dit l'oursin rascasse des pêcheurs provençaux"; **Briot, 3**.

*Holaster planus* in flint used as polisher in Can pignyan period; **Perot**.

#### 2. General Treatises, Textbooks, &c.

General account, *Echinoderma*, esp. recent, with figs.; **MacBride, 2**.

## STRUCTURE. 1007

(a-h refer to the Classes, as under 1031).

## a. General.

## 2. Symmetries.

Metamerism and polymerism in relation to life of Echinoderms; **Lehmann**.

## b. Holothurioidea.

## 1. General.

Anatomy. *Holothuria nigra* (561-567, figs.) and general *Hol.*; **MacBride**, 2.

Inner anatomy *Synapta minuta* adult and young; **Becher**, (507).

*Pelagothuria*; **Herouard**, 3.

2 and 3. Vacant.

## 4. Skeletal tissue.

Spicules of *Cucumaria*, *Thyone*; **Woodland**, (pl.).

Spicules *Synapta minuta*, *Labidoplax*; **Becher**, (506).

5 and 6. Vacant.

## 7. Other body-cavities and their contents.

Contractile rosettes in body-cavity, *Synapta*, *Rhabdomolgus*; **Becher**, (508).

Brown bodies of *Hol.*, contents, pigment; **Briot**, 1.

8. Vacant.

## 9. Nervous system and sense-organs.

Central nervous system, *Synapta*; **Bochenek**.

Cutaneous nerves and sense-cells of *Holothuria*; **Polara**, 2.

Russo's corpuscles and podia modified as sense-organs, *Holothuria*; **Polara**, 3.

Sense-cells, distrib. in tegument, *Mesothuria*, *Cucumaria*, *Synapta*; **Retzius**, (figs.).

(N-9720 m)

## 10. Mesodermal tissues exc. skeletal.

Connective tissue, pigment, and general integument of *Holothuria*; **Polara**, 2.

Integument, esp. scleroblasts, *Cucumaria*; **Woodland**.

11 and 12. Vacant.

## c. Echinoidea.

## 1. General anatomy.

*Echinus esculentus* (504-529, figs.), and general *Ech.*; **MacBride**, 2.

Macroscopic and microscopic anat. of skeleton and internal organs of *Phormosoma*, *Hygrosoma*, and *Sperosoma*, comparison with *Asthenosoma*; **Schurig**.

## 2. Symmetries.

Proposed new notation for genital plates; **Séguin**, 1, 2.

Notation of rays, Loven's method preferred to Séguin's; **Lambert**, 4.

3 and 4. Vacant.

## 5. Skeletal anatomy.

Test, *Phormosoma*, *Hygrosoma*, *Sperosoma*; **Schurig**, (308).

Ambulacra, pore-groupings, compound plates; **Valette**, 2.

Floscelle and phylloides, definition, origin; **Lambert**, 1, (29).

Radioles, esp. poisonous, histology; sphaeridia; pedicellariae, in *Echinothuridae*; **Schurig**, (300-306).

Pedicellariae, structure, differences, distribution, taxonomic value; **Doederlein**, 2, (65-81, 90, et passim).

Pedicellariae, number, attachment, *Paracentrotus*, *Arbacia*, *Sphaerechinus*, *Spatangus*; **Henri & Kayalof**.

## 6. Hydrocoel and appendages, Respiratory organs.

Podia, *Phormosoma*, *Hygrosoma*, no suckers, no mouth-tentacles; **Schurig**, (306).

7. Other body-cavities and their contents.

Perivisceral fluid, contents; **Henri.**

8. Digestive system and its appendages.

Jaw apparatus (314), Stewart's organs (324), *Echinothuridae*; **Schurig.**

9. Nervous system and sense-organs.

Nerves of pedicellariae; **Kiernik.**

10. Mesodermal tissues exc. skeletal.

Integument, *Echinothuridae*; **Schurig**, (313).

Histology of pedicellariae, esp. muscles, *Paracentrotus*, *Parechinus*; **Kiernik.**

11. Dorsal organ.

*Echinothuridae*; **Schurig**, (329).

12. Generative organs and gonads.

Living ovum, protoplasm a homogeneous viscid matrix containing granules and oil globules; its chemical composition, *Arbacia*; **Mathews**, 2.

d. Asteroidea.

1. General anatomy.

*Asterias rubens* (432-452, figs.) and general *Ast.*; **MacBride**, 2.

2. Symmetries.

Hexactinic associated with pentactinic in *Stellosphaera*; **Koehler & Vaney**, 1 & 2.

3. Vacant.

4. Skeletal tissue.

Plates of *Sphaerites*; **Schoendorf**, 2 (296, fig.).

5. Skeletal anatomy.

Structure of *Sphaerites* (or *Sphaeraster*); **Schoendorf**, 1 and 2 (figs. and pls.).

6, 7, 8. Vacant.

9. Nervous system and sense-organs.

Histology of actinal nerve system, *Asterias rubens*, also gland-cells, sense-cells, and dorsal peritoneal epithelium; **Meyer.**

Epithelial glands, *Echinaster*, *Cribrella*; **Bartheis.**

10. Mesodermal tissues exc. skeletal.

Histology various muscles connected with nerve-system *Asterias*; **Meyer.**

11. Vacant.

12. Generative organs and gonads.

Living ovum of *Asterias* (cf. c. 12); **Mathews**, 2.

Relations of polar bodies, chromosomes, and centrosome in ova and sperm-ova of *Asterias*; **Tennent & Hogue.**

e. Ophiuroidea.

1. General anatomy.

*Ophiothrix fragilis* (478-491, figs.) and general *Oph.*; **MacBride** 2.

2, 3, 4. Vacant.

5. Skeletal anatomy.

Radial plates of *Ophiothrix*, articulated to vertebrae (vide 1011, 3); **MacBride** 1.

6-12. Vacant.

f. Crinoidea.

1. General anatomy.

*Antedon rosacea* (= *bifida*); **MacBride**, 2 (581-589, figs.)

2 and 3. Vacant.

4. Skeletal tissue.

Mg CO<sub>2</sub>, 11.72%, organic matter 22% in cirri and arms of alcoholic *Metaer*; **Nichols**, (49).

## 5. Skeletal anatomy.

Tegmen of *Onychoerinus*, migration of radialian in *Ichthyocrinidae*, IBB of *Calpioer.*, IBr of *Flexibilia*, anal area of *Flexibilia* and perisomic plates generally; Springer.

## 6. Vacant.

## 7. Other body-cavities and their contents.

Coolom, general account; Hamann (1495).

## 8. Digestive system.

Gut, general account; Hamann (1502).

## 9 and 10. Vacant.

## 11. Axial organ.

General account; Hamann (1496)

## 12. Generative organs and gonads.

General account; Hamann (1505).

Ovary *Antedon* (450), so-called "yolk-cells" (451), oögonia (451), oocyte (452-492); Chubb, 2.

## g. Cystidea.

## 5. Skeletal anatomy.

Pores in test of *Aristocystis*; Bather, 4, (10).

## h. Blastoidea.

## 1. Skeletal anatomy.

Oral septa in *Pentremites*; Smith (1235, pl. 47).

## PHYSIOLOGY. 1011

## 1. General.

Cell-metabolism, oocyte of *Antedon*; Chubb, 2.

## 2. Circulation.

Vacant.

## 3. Respiration.

Forced respiration by movement of radial plates, *Ophiothrix*; MacBride, 1.

## 4. Alimentation and Digestion.

Vacant; but see 1019, 4.

## 5. Excretion and Secretion.

Mucus secreted on irritation of skin differs in *H. poli* from *H. tubulosa*: Pigment in skin of *Holothuria*, uranidine; Briot, 2.

Action of poison radioles in *Echinothuridae*; Schurig (301).

Skin glands, *Echinaster*, *Cribrella*; Barthels.

## 6. Sensation.

Cutaneous epithelium and pigment cells as a diffused sense-organ for perception of light, *Holothuria*. Polara 2: cf. Polara, 3.

## 7. Miscellanea and Experimental.

Action of light on motion of *Asterias*; Bohn.

Action of temperature on development of *Ech.*; Marcus.

Geotropism of larvae, see 1015, 5, c.; Lyon, 2.

Movements of pedicellariae; Henri & Kayalof.

Phagocytosis by amoebocytes of perivisceral fluid in *Paracentrotus* and *Sphaerechinus*; Cernovodeanu & Henri.

Perivisceral fluid of Spatangoids, by coagulating, forms patches to mend small punctures in tube of intestine; Henri: Also stops small holes in test, in *Echinus*, *Parechinus*, *Paracentrotus*; Cuénot.

Green fluorescence in alcohol extract of *Holothuria* integument; Dubois.

Function of Stewart's organs in *Echinothuridae*; Schurig.

## DEVELOPMENT. 1015

## 1. General principles.

Vacant; but see 1015, 8.

## 2. General Accounts.

a. General account of development of *Echinoderma*; MacBride, 2, (601-621, figs.).

f. Ditto, *Crinoidea*; Hamann (1512-1537).

## 3. Formation of gonads.

f. Formation and growth of oocyte and yolk-nucleus, *Antedon*; Chubb, 2.

## 4. Oviposition, fertilisation, segmentation.

Fertilisation, *Arbacia*; Ariola.

Attraction of ova for spermatozoa neither specific nor chemotropic; Drago.

Individuality of *Ech.* ova, those of same individual responding differently to stimuli; Delage, 2.

Sperm-ova and their segmentation, *Ophiothrix*; MacBride, 1.

Segmentation, *Arbacia*, *Echinus*, *Strongylocentrotus*; Fischel, 2, (526).

## 5. Larval stages.

a. Various larvae in plankton; Gough.

Larvae in Plankton, North Sea; Consell internat., 1, 2 & 3.

Plankton, Murman Sea; Derjugin, (104, 161).

*Bipinnaria* and *Pluteus*; Delap, 1, (5).

b. Young of *Synapta*, with contractile rosettes; Becher, (508).

Larvae of *Elasipoda*, probably *Elpidiinae*, descr.; Herouard, 2, (9).

c. Parthenogenetic *Paracentrotus* raised in 1 month to Echinoid with 2 pedicellariae; Delage, 2.

*Ech.* blastulae and gastrulae always come to top of water, geotropism; Lyon, 2.

d. *Bipinnaria* of *Luidia sarsi*, growth of young to 95 mm. diam.; Delap, 2, (15).

Larva of *Stellosphaera*, 2 stages; Koehler & Vaney, 1 & 2.

e. Early stages, *Ophiothrix*, right hydrocoel; MacBride, 1.

## 6. Organogeny.

b. Development of spicules in *Cucumariidae* and *Synapta*; Woodland, (figs., pls.).

c. Symmetry, bilateral, first visible in Gastrula with mesenchyme, but foreshadowed in stage with 2 precocious micromeres. In a half blastomere larva the median plane is at right angles to the original median plane, i.e. the primitive groove. Dispersing destroys bilaterality; Driesch, 1 and 2.

Development of pedicellariae in *Echinothuridae*; Schurig, (306, fig.).

d. Skin glands, *Echinaster*, *Cribrella*; Barthels.

## 7. Post-larval growth-stages.

b. Growth-stages of *Cucumaria*, corresponding to *Ocnus*, *Cucumaria*, and *Semperia*; Herouard, 2, (12).

Increase of pigment and other changes in integument of spp. of *Holothuria* with age and change of habitat; Polara, 2.

c. Development of *Hemicidaris eremularis* from 2 mm. to 35 mm. diameter; Séguin, 1 & 2.

Characters of young *Echini* in general (211), *Stereochinus horridus*, 8 mm. diam. (222); Doederlein, 2.

d. Young of numerous Hawaiian *Ast.*, for list of genera see 1027, A, iv; Fisher, 3.

Young of *Crossaster alternatus*; Fisher, 4, (134).

Young of *Anasterias tenera* descr.; Koehler, 5, (17, pl.).

f. Young of *Dizyjoer.* (1252), increase of basals with growth in *Talaroer.* (1262); Beede.



*h.* Development of *Pentremites conoideus* from specimens 0.82 mm. long to adults 22 mm. long, detailed measurements and curves, comparison with young *Codaster*; **Smith**.

## 8. Developmental Mechanics and Experimental Embryology.

Reply to Herbst 119. *Zool. Rec.* 1904; **Schücking**.

Factors determining arrangement of chromatin and form of nucleus in oocyte, *Antedon*; **Chubb**, 2, (492).

Polarity of ovum, *Paracentrotus*; **Garbowski**.

Development of bilateral symmetry in *Echinus microtuberculatus*; **Driesch**, 1 & 2.

In *Echinus* number of primary mesenchyme cells conforms to that of mother, uninfluenced by sperm; **Peter**.

Osmosis and entrance of spermatozoa in *Arbacia*; **Ariola**.

Lack of oxygen or prevention of oxidation by KCN prevents disintegration of ova after membrane-formation, *Strongylocentrotus*; **Loeb**, 2 & 5.

Lack of oxygen prevents toxic effects of hypertonic solutions on *Ech.* ova; **Loeb**, 4.

Chemical aspect of fertilisation; in *Strongylocentrotus* absence of free oxygen or addition of potassium cyanide check segmentation, more carbon dioxide formed by fertilised ova than by unfertilised; **Loeb**, 6.

Effects of compression and want of oxygen on maturation, fertilisation, and segmentation of ova and sperm-ova, *Asterias*; **King**.

Sperm-ova *Arbacia* and *Asterias* more susceptible to cyanides just before and during segmentation; **Mathews**, 1.

Separation of *Arbacia* ovum-material into 4 layers by centrifugalizing; fertilization; development of sperm-ovum normal, except for pigmentation; **Lyon**, 1.

Mere shaking, without rise of temperature, does not retard segmentation

of sperm-ova in *Arbacia* and *Asterias*; **Whitney**.

In segmentation, acid formation increases with number of nuclei; **Loeb**, 7.

Action of neutral salts on development of ova and sperm-ova, influence of acids and alkalis; **Loeb**, 8.

Effect of carbon dioxide on segmentation of ova and sperm-ova of *Asterias*; **Tennent & Hogue**.

Influence of temperature on segmentation of *Strongylocentrotus* sperm-ova; its dependence on relation of nucleus to plasma; **Marcus**.

### Artificial Parthenogenesis.—

Demands free oxygen in the hypertonic sea-water, *Strongylocentrotus*; **Loeb**, 3.

Adjuvant effect of manganese, cobalt, nickel; **Delage**, 2.

Ova of *Strongylocentrotus* stimulated to develop by sperm of *Mytilus*, *Chiton*, *Asterias*; **Kupelwieser**.

### Hybridisation.—

*Sphaerechinus granularis*, *Strongylocentrotus lividus*, *Echinus microtuberculatus* ova and enucleated fragments of ova fertilised by *Antedon* sperm; **Godlewski**.

Hybrid larvae in various combinations of *Arbacia*, *Sphaerechinus*, *Echinus*, *Strongylocentrotus*; **Fischel**, 1.

Experimental study of hybrid larvae of *Strongylocentrotus lividus*, *Echinus microtuberculatus*, and *Sphaerechinus granularis*, esp. effect of temperature on stereom-formation in larvae of hybrids and parents, comparison with results of **Vernon**, 1900, and general discussion of bearing on heredity; further experiments by influencing sperm or ova, to discover respective effect on transmission of male and female characters; **Herbst**, 1.

Experiments with hybrid and parthenogenetic larvae of *Strongylocentrotus*, *Sphaerechinus*, esp. in relation to stereom-formation, to determine conditions of appearance of the mother-characters; **Herbst**, 2.

## ETHOLOGY AND BIONOMICS.

1019

## 1. General accounts.

Bionomics of recent *Echinoderma* treated generally and in detail (passim); **MacBride**, (2).

Popular account; **Manger**.

Mode of life of *Sphaerites*, reef-dwellers; **Schoendorf**, 2, (300).

General account, recent *Crin*; **Hamann**, (1542).

## 2. Special habits.

Vacant.

## 3. Habitat.

Habitat of various Echinoderms changed by Vesuvian eruption, e.g., *Synapta* found in Plankton; **Lo Bianco**.

Young of certain *Holothuria* in deep water, adults migrate to shallow; **Polara**, 2.

Oozy bottom, use of funnel-shaped radioles in *Echinothuridae*; **Doflein**, (255, 269).

Deep sea forms, e.g., *Pourtalesia*, *Echinothuridae*, in depths of 100-200 m.; **Doflein**, (252).

## 4. Feeding.

Mode of feeding and food of *Pelagothuria*; **Kemna**.

Food of various spp. Hawaiian *Ast.*, for list of genera see 1027, A, iv.; **Fisher**, 3.

*Pentaceros*, *Astropecten*, and *Luidia* feed on *Margaritifera vulgaris*; **Herdman**, 2 & 3.

Feeding of larvae, *Ophiotlurix*; **MacBride**, 1.

## 5. Defence and Protection.

Poison and poison glands in *Ast. Ech. Hol.*, compilation; **Faust**, (229, 230).

All four kinds of pedicellariae poisonous; effect on various animals, none on *Hol.*, *Ast.*, or frogs; **Henri & Kayalof**.

Protection of gut by coagulation of coelomic fluid in *Ech.*; **Henri**: ditto and protection of test; **Cuénot**.

Skin glands, *Echinaster*; **Barthels**.

## 6. Locomotion.

Floating and movement of *Pelagothuria*; **Kemna**.

Locomotion of *Asterias*; **Bohn**.

Swimming by podia, *Luidia*; **Fisher**, 3, (1035).

## 7. Autotomy and Regeneration.

Regeneration, general speculations illustrated by arm of *Antedon* and ovum of *Strongylocentrotus*; **Pzibram**.

General account in *Crinoidea*; **Hamann**, (1538).

Autotomy of *Antedon* under change of temperature and during fall of ashes; **Lo Bianco**, (94, 101).

## 8. Parasites and Commensals.

*Cystobia chiritodae*, gregarino in body-cavity and blood-vessels of *Chiritoda pellucida*; **Dogiel**.

Turbellarian *Anoplodium* in gut and body-cavity of *Holothuria*; **Briot**, 3.

Turbellarian *Syndesmis* in gut of *Paracentrotus* and *Sphaerechinus*, difference of colour according to host; **Briot**, 3.

Parasitic Trematode in gut of *Phormosoma indicum*; **Schurig**.

Five gastropods, *Stylifer*, on *Stereocidaris*, inducing malformation; **Doederlein**, 2, (115, pl.).

*Petrolestes patagonicus*, Anomurous decapod commensal *Asteracanthion helianthus*; **Bouvier**, 1.

*Philichthys*, copepod in ovary of *Amphiura squamata*; **Herouard**, 4.

*Myzostoma* ectoparasite on *Pentacr*; **Reichensperger**.

## 9. Protection of young.

Care of brood in *Cucumaria lateralis* and *Psolus granulatus*; **Vaney**, 3, (3).

Young in body-cavity of *Synapta minuta*; **Becher**, (508).

Protection of young, *Anasterias tenera*; **Koehler**, 4 & 5, (16)

Protection of young in *Antedon*; **Hamann**, (1537).

## 10. Sexual Dimorphism. Vacant.

## 11. Relation to Other Animals, as Food, &c.

As food of fish—of *Pleuronectes platessa*, *Echinocyamus*; of *P. limanda*, *Ophioglypha*, *Ophiura*; **Johnstone**, (243–246).

*Oph.* as food of young *Luidia*; **Delap**, 2, (15).

Pearl oyster attacked by *Ast.* (vide 4); **Herdman**, 2 & 3.

## 12. In Geological aspect.

Effect of ashes from Vesuvius; kill *Sphaerechinus*, *Arbacia*, *Strongylocentrotus*, *Doroedaris* by clogging madreporite, not *Echinocyamus* and others; kill *Luidia*, not other *Ast.* or *Oph.*; kill *Holothuria*, not *Phyllophorus* or *Synapta*; kill *Antedon*; **Lo Bianco**.

Geological history of Echinoderms esp. in N. America, (see ref. under 1027, B); **Weller**.

*Crin.* fragments, stereom replaced by magnetite, Lower Devonian; **Cayeux**.

Calcari ad echini, Langhian, Mt. Carpegna, N. Italy; **Chelussi**.

Echinoderm fragments as components of Turonian chalk; **Hill** in **Burnet**, (213, pl. 18).

Echinoderm breccia in Bajocian, Kientaleralps; **Gerber**, (71).

Cystid Limest., *Sphaeronis*, *Echinospaera*; **Hedström & Wiman**, (104, 109).

See also **Nichols**.

## 13. Phaenology.

Vacant; but see references to Plankton larvae, 1015, 10, and 527, A.

## VARIATION AND AETIOLOGY.

1023

### 1. In form and surface-characters.

Form and tuberculation, *Sphaerechinus granularis*, *Strongylocentrotus lividus*; **Checchia**, 2, (92).

Absence of lateral fasciole from some specimens of *Linthia oblonga*; **Gregory**, (249).

Variations in spp. Hawaiian *Ast.*, for list of genera see 1027, A, iv; **Fisher**, 3.

### 2. In colour.

Colour in life of spp. Hawaiian *Ast.*, for list of genera see 1027, A, iv; **Fisher**, 3.

### 3. Meristic: numerical.

Variation in numbers of primibrachs, *Forbesioer.*, *Taxocr.*; **Springer**, (489).

4-rayed and 6-rayed *Pentremites godoni*, 4-rayed *Taxocr.*; **Springer**, (489).

In *Crinoidea*, general account; **Hamann**, (1549).

### 4. Meristic: homoeotic.

Vacant.

### 5. Teratological.

Abnormal formation of dorsal organ in *Phormosoma indicum*; **Schurig**, (334).

Two gonopores on madreporite, *Centrostephanus longispinus*; **Checchia**, 2, (88).

In radial of *Symbathocr.*; **Beede**, (1262).

In *Crinoidea*, general account **Hamann**, (1549).

### 6. Bionomic.

Variation in occurrence of pedicellariae in same species of Echinoid, different locc.; **Doederlein**, 2, (93, 94).

Variation of gonads of *Ech.* according to loc.; **Fischel**, 1, (501).

Ambulacral pores of *Echinocorys* reduced in forms immersed in ooze; **Fourtau**, (152).

Variability in occurrence of Stewart's organs in *Echinolhuridae*; **Schurig**, (294).

Dwarfing of *Pentremites* in a certain area, biometrically studied, causes discussed; **Smith**, (1237).

## 7. Mutational.

Mutation of *Discoidea cylindrica*; **Bosworth**.

Mutational varr. *Echinocorys scutatus*; **White & Treacher**.

Developmental and specific variation in *Pentremites conoideus* biometrically studied and contrasted; **Smith**.

## 8. Evolution, general principles.

Convergence in external characters between spp. of *Anasterias* and *Diplasterias*; **Koehler**, 4 & 5.

Principles governing evolution of Echinoderms, esp. in N. America (see reff. under 1027B); **Weller**.

Evolution of anal structures, of brachials, and of perisomic plates in *Crinoidea Flexibilia*, relative value of different characters; **Springer**, (494).

## 9. Evolution: relations to other Phyla.

Relations of *Echinoderma* to hypothetical *Protocyclonata* and to *Hemichordata*, and origin of Classes; **MacBride**, 2, (616-623).

## 10. Evolution: phylogeny of smaller groups.

Phylogeny of Holothurians; **MacBride**, 2, (578).

Suggested origin of *Pelagothuria*; **Kemna**.

Relationships of main Echinoid groups, *Cidaridae*, *Echinothuriidae*, *Diadematina*, *Saleniidae* & *Arbaciidae*, *Echinina*, *Irregularia*, (81), phylogenetic relations genera of *Echinidae*, (203); **Doederlein**, 2.

*Echinothuriidae* allied to *Diadematiidae* rather than to *Cidaridae*; **Schurig**, (342).

Evolution and classification of Cretaceo - Tertiary Spatangids; **Lambert**, 8, (108).

Evolution of *Schizaster*, *Brissus* and allies; **Fourtau**, (143); **Lambert**, 8, (123).

Phylogeny and classification of *Crinoidea Flexibilia*; **Springer**, (493).

Descent of *Pentremites* from *Codaster*; **Smith**, (1235).

## DISTRIBUTION 1027

## A. GEOGRAPHICAL.

## i. General.

Bipolarity objected to; **Vaney**, 3; **Koehler**, 2.

Geogr. Distrib. *Echinoderma*, general and bathymetric; **Trouessart**, (236).

Bathymetric, of *Pelagothuria*; **Herouard**, 3.

*Ech.* of Valdivia Exped. from Atlantic, Cape Colony, Antarctic and Subantarctic, Sumatra, Nicobars and Maldives, E. Africa, with spp. nn. under *Linthia*, *Schizaster*, *Maretia*, *Prionechinus*, *Stereocidaris*, and numerous varr. nn., genu. nn. *Protocentrotus*, *Meijerea*; **Doederlein**, 2, (271-277, et passim).

## ii. Atlantic Ocean and adjacent seas.

North Sea, southern part, *Echinoderma* collected by the "Wodan." **Tesch**.

N. Sea, Danish Seas, Plankton, larvae; **Conseil internat**, 1, (190).

Skagerak, Plankton, *Luidia* larva (36), Danish seas, *Ophiopluteus* and *Spatangus* larva (40), Belgian seas, *Oph.* larvae (48); **Conseil internat**, 2.

Skagerak, *Ech.* larva (63), N. Sea, various larvae (69, 82, 88), English Channel, *Oph.* larva (76); **Conseil internat**, 3.

Helgoland, *Synapta minuta* sp. n.; **Becher**.

N. Atlantic, *Pelagothuria* sp. n.; **Herouard**, 3.

Luce Bay, Wigtonshire, *Solaster*, *Ophiura*, *Astropecten*, *Asterias*, *Echinus*, *Echinozamus*, *Thyone*, *Cucumaria*; Fishguard Bay, Milford Haven, *Ophiura*, *Asterias*, *Echinus*; **Johnstone**.

Irish coast, plankton, various larvae and young *Oph*; **Gough**, (12, 22, 34, 36, 50, 52).

Ireland, Valencia, *Bipinnaria* of *Ast.* and *Pluteus*; **Delap**, 1. (5): *Luidia* larva; **Delap**, 2, (15).

Mediterranean, Sicily littoral, list of *Ech.*, esp. spp. of *Centrostephanus*,

*Psammechinus*, *Arbacia*, *Sphaerechinus*, *Strongylocentrotus* [*Paracentrotus*], *Brissopsis*, *Echinocardium*; **Checchia, 2.**

W. Africa, Mauritania coast, *Echinometra subangularis* and spp. n. of *Patiria*, *Holothuria*; **Koehler & Vaney, 3.**

Madeira, 1968 m., *Gephyrocer*; **Albert.**

Azores, probably 2,000–3,000 m., *Stellosphaera* gen. n. *Ast*; **Koehler & Vaney, 1 & 2.**

### iii. Indian Ocean and adjacent seas.

Red Sea, Arabia, *Echinus*, *Clypeaster*, *Echinanthus*, *Echinodiscus*, and *Temnopterus* sp. n., *Stellaster*, *Asterina*, *Linckia*, and *Astropecten* sp. n., *Amphiura*, *Ophionereis*, *Ophiothrix*, *Ophiopsammium*, *Ophiothela*; **Koehler, 3.**

Ceylon, Echinoderm fauna compared with Maldives and others; **Herdman, 3, (438, 442, 446).**

### iv. Pacific Ocean and adjacent seas.

Japan, various Echinoderms (157, 189–191, 203, 251); **Doflein, 2**; list of *Ech.* and spp. of *Solaster* and *Asterias*; **Doflein, 1.**

Japan, Suruga B., *Eynpiastes*; **Mitsukuri.**

Japan, coasts, spp. of *Strongylocentrotus* 1 sp. n. 1 var. n., *Pseudocentrotus*, *Glyptocidaris*, *Anthocidaris*; **Doederlein, 1.**

Hawaiian Is., from shore to 1000 fm., monograph of *Ast.*; spp. n. of *Astropecten*, *Ctenophoraster* n., *Tritonaster* n., *Psilaster*, *Psilasteropsis* n., *Dipsacaster*, *Patagiaster* n., *Luidia*, *Pseudarchaster*, *Cheiraster*, *Mediaster*, *Nereidaster*, *Pentagonaster*, *Tosia*, *Astroceramus* n., *Calidierma*, *Calliaster*, *Gilbertaster* n., *Evolosoma* n., *Antheniaster*, *Pentaceros*, *Asterodiscus*, *Ophidiaster*, *Leiaster*, *Anseropoda*, *Henricia*, *Asthenactis* n., *Pteraster*, *Hymenaster*, *Benthaster*, *Zoroaster*, *Coscinasterias*, *Hydrasterias*, *Odinia*, *Brisinga*; also *Goniodiscides* nom. nov., *Archaster*, *Linckia*, *Echinaster*, *Valvaster*, *Mithrodia*; discussion of faunistic relations; **Fisher, 3.**

California, Monterey B., spp. n. of *Astropecten* & *Alexandra*; **Fisher, 2.**

California, spp. n. of *Astropecten*, *Luidia*, *Henricia*, *Crossaster*, and *Rathbunaster* gen. n.; **Fisher, 4.**

Oregon, sp. n. of *Henricia*; **Fisher, 4.**

### v. Arctic Ocean and adjacent seas.

White Sea, Solowetzki Id., *Hol.*, *Ech.*, *Ast.*, *Oph.*, bathymetric note on *Ophioglypha*, *Asteracanthion*; **Stieren, (271, 292).**

Murman coast, Ekaterin harbour Echinoderm fauna, list of various references; **Derjugin, (90, 94, 97, 105, 148).**

Bering Sea, spp. n. of *Leptychaster*, *Crossaster*; **Fisher, 4.**

### vi. Antarctic Ocean and adjacent seas.

Charcot Exped., Echinoderms, popular; **Turquet.**

Charcot Exped.; **Koehler, 2**: spp. n. of *Anasterias*, *Diplasterias*, *Granaster*, *Odontaster*, and gen. nn. *Ripaster*, *Cryaster*, also spp. of *Labidiaster*, *Porania*, *Ophionotus*, *Echinus*, *Arbacia*; **Koehler, 4**: the same with *Ophionotus* sp. n.; **Koehler, 5.**

South Orkneys. Scotia B., *Thyone* spp. n.; **Vaney, 1.**

Charcot Exped., Carthage B., Biscoe B., and Wandel Id. spp. n. of *Synallactes*, *Cucumaria*, *Psolus*; **Vaney, 2 and 3.**

General discussion, Antarctic *Hol.* fauna, no bipolar spp.; **Vaney, 3, (25).**

Belgica coll. spp. of *Mesothuria*, *Rhipidolhuria*, *Peniagone*, *Cucumaria*, *Psolidium*, *Psolus*, *Trochostoma*, *Sigmodota*, and Elasiopod larvae; **Herouard, 2.**

## B. GEOLOGICAL.

### i. General.

Geol. Distrib. of *Echinoderma* Trouessart, (178).

General palaeontology of *Crin*; **Hamann, (1551).**

Geology of France, Lists of fossils (passim), figs. of *Clypeaster*, *Diademopsis*, *Toxaster*, *Clypeus*, *Encrinurus*; **Fritel.**

Caucasus, summary of stratigraphy with lists of fossils, many *Ech.* and *Crin.*; **Oswald.**

Madagascar, lists of *Ech.* and *Crin.* from Cretaceous and Tertiary, *Aerosalenia*, *Cardiaster*, *Cidaris*, *Conoclypeus*, *Cyphosoma*, *Echinanthus*, *Epiaster*, *Euspatangus*, *Fibularia*, *Fibulina*, *Guetaria*, *Hemiaster*, *Infulaster*, *Isaster*, *Isopneustes*, *Lampadaster*, *Menuthiaster*, *Micraster*, *Noetlingia*, *Peltastes*, *Schizaster*, *Apioer.*, *Encrinus.*, *Pentacr.*; **Lemoine.**

## ii. Cainozoic.

### a. General.

Tertiary, Piedmont, lists of *Ech.* and *Crin.* in Bartonian (896), Helvetian (905), Plaisancian (911); **Sacco.**

Sinai and Egypt, spp. of *Echinolampas* (1 sp. n.), *Phyllacanthus*, *Echinus*, *Toxopneustes*, *Echinometra*, *Heterocentrotus*, *Fibularia*, *Laganum*, *Echinodiscus*, *Clypeaster*, *Brissuss*, ?*Schizaster*, *Lovenia*; **Gregory.**

Tertiary, N. Madagascar, *Ech.* (vide 1027, B, i); **Lemoine.**

Spicules of *Hol.* figd., = crystalloids of Jukes-Browne & Harrison, from Barbados, London, Q. J. Geol. Soc., 48, 1892, (178); also of Sorby from W. Java; and of Ehrenberg from Egypt and Lebanon; **Haupt.**

California, lists of fossils including *Echinoidea*; **Arnold**, (12, 19, 22, 23, 24, 27, 28, 30, 33).

### b. Pleistocene.

Salustro, Catania, *Amphiura*, radiole of *Cidaris*; **Scalia.**

Nantucket, *Strongylocentrotus*; **Wilson.**

Near Tokyo, *Temnopleurus*, *Laganum*, *Echinaraclinus*, *Fibularia*; **Tokunaga.**

### c. Pliocene.

Barcelona, *Brissopsis* sp. n., spp. of *Cidaris*, *Clypeaster*, *Schizaster*; Anvers, Italy, Algeria, *Schizaster* spp. n.; Italy, *Brissopsis* sp. n.; W. Africa, *Hemiheliospis* gen. et sp. n.; **Lambert, 8.**

Tuxtepec division, Sta. Maria Tatetla, Mexico, *Encope tatetlaensis* sp. n.; **Boese, 1** (71) and **2** (5).

### d. Miocene.

Sardinia, *Clypeaster* sp. n.; **Lambert, 2.**

Calabria, *Clypeaster*, *Echinolampas*, *Schizaster*; **Lojacono.**

Barcelona and Minorca, spp. n. of *Dorocidaris*, *Schizechinus*, *Scutella*, *Tripneustes*, *Clypeaster*, *Echinolampas*, *Opissaster*, *Schizaster*, spp. of *Cidaris*, *Psammechinus*, *Amphiope*, *Milletia*, *Pericosmus*, *Brissopsis*, *Trachyspatangus*, *Prospatangus*; also various locc. spp. of *Leiocidaris*, *Psammechinus*, *Echinolampas*, *Schizaster*; **Lambert, 8.**

Upper,—Gourbesville (Manche), *Echinocyamus*; **Dollfus.**

Upper Mediterranean beds, Budapest, *Goniaster*, *Cidaris*, *Echinus*, *Psammechinus*, *Clypeaster*, *Echinolampas*, *Spatangus*, *Echinocardium*, *Hemiaster*, *Schizaster* varr. nn.; **Vadász.**

Middle,—near Turin, *Cidaris*, *Diadema*, *Arbacina*, *Hipponoë*, *Echinocyamus*, *Clypeaster*, *Brissopsis*, *Schizaster*, *Pericosmus*, *Spatangus*, *Heterobrissus*, *Pentacrinus*, *Antedon*, *Conocrinus*, *Actinometra*; **Bellini.**

Helvetian, of Mt. Titano, Repubblica di S. Marino, *Cidaris*, *Psammechinus*, *Clypeaster*, *Scutella*, *Echinolampas*, *Pliolampas*, *Linthia*, *Pericosmus*, *Spatangus*, *Hypsospatangus*, *Eupatagus*; **Nelli.**

Burdigalian, Molasse, Vence, spp. of *Leiocidaris*, *Scutella*, *Clypeaster*, *Echinolampas*, *Tristomanthus*, *Opissaster*, *Pericosmus*, *Schizaster*, *Moirá*, *Brissoides*, *Martia*, *Prospatangus*, *Echinocardium*, several new; see also *Gregoryaster* gen. n., *Hypsoclypus*, *Heteroclypeus*; **Lambert, 1.**

Burdigalian, Andalusia, Spain, *Clypeaster*; **Douvillé, R.** (105-133).

Langhian, Mt. Carpegna, N. Italy, *Cidaris* (274), *Mozzano*, *Toxopatagus* (296); **Chelussi.**

Miocene and Oligocene (?) Cserhát, Bakony, *Clypeaster*, *Conoclypeus*, *Scutella*, *Echinolampas*, *Hemipatagus*; **Noszky.**

**e. Oligocene.**

Upper,—Enterrian of Patagonia, *Monophora*; **Ameghino** (255–258).

Middle,—Schönebeck, Hinterpommern *Psammechinus*: **Picard**.

**f. Eocene.**

Apennine Flysch, *Hol.* imprints, *Lorenzina*; **Simonelli**.

Tropical E. Africa, distrib. of *Ech.*; **Chautard**.

Lutetian, Senegal, *Plagiopygus*; **Mou-nier**, 2.

Upper Lutetian, near Vich, Catalonia, Spain, list of *Ech.*; **Almera**, 1 and 2.

Lower Lutetian, N. France, *Maretia*; **Leriche** (402).

Patagonian, discussion of age on basis of *Ech.* fauna, *Isechinus*, *Schizaster*, *Platypygus*, *Iheringina*, *Ilypechinus*, *Linthia*, *Psammechinus*, *Monophora*, *Cidaris*, *Goniocidaris*, *Echinopedina*, also *Antedon*; **Ameghino** (168).

**iii. Mesozoic.****a. General.**

L'Yonne, spp. of *Acrosalenia*, *Plesiosalenia*, *Perisalenia*, *Polygoniopygus*, *Diademopsis*, *Hemipedina*, *Phalacrope-dina*, *Codiopsis*, *Diplopodia*, *Pseudoplo-podia*; **Valette**, 2.

Kientaleralps, fragmentary Echinoderms, *Cidaris*, *Pentacr.*; **Gerber** (passim).

Aralo-Caspian region, Great and Little Balkhan and Krasnovodsk peninsula, *Ech.* (60, 129), *Toxaster* (82), *Cidaris* (127), *Metaporrhinus* (131), *Millerier* (131–134), *Holaster* (137); **Andrusov**.

**b. Cretaceous.**

Jerusalem, *Holectypus*, *Codiopsis* (37), *Echinobrissus*, *Cyphosoma* (38); **Blanckenhorn**.

N. Madagascar, *Ech.* (vide 1027 B, i); **Lemoine**.

**1. Upper Cretaceous.**

White Chalk, England, range of spp. of *Echinocorys*, *Comulus*, *Discoidea*, *Ha-*

*genovia*, *Hemiaster*, *Holaster*, *Cardiaster*, *Offaster*, *Micraster*, *Epiaster*, *Infulaster*; **Sherborn**.

Devonshire, *Crin.* and *Ech.*, *Micraster*, *Holaster*; **Clayden** (48, 49).

Near Brunswick, *Holaster*, *Pseudodia-dema*, *Discoidea*; **Wollemann**.

Moravia, *Cidaris*, *Echinocorys*, *Pentacr.*; **Remeš**, 1.

Andalusia, Spain, *Echinocorys*, *Dis-coidea*, *Echinoconus* (fig.), *Hyaster*, *Pedinopsis*, *Enallaster*, *Hemiaster*, *Holaster*; **Douvillé**, R, (76–78; 173).

Egypt, *Orthopsis*, *Rhabdocidaris*, and spp. n. of *Phloxaster* gen. n., *Echino-brissus*, *Echinocorys*, *Linthia*; **Fourtau**.

Tropical E. Africa, distrib. of *Ech.*; **Chautard**.

Echinoderms esp. N. America; **Chamberlin & Salisbury**, (iii, 186, fig.).

Cerro de Muleros, Chihuahua, Mexico, locc. and horizons of *Ech.*; **Boese**, 3, (5, 7, 8, 17, 18, 19, 24).

Upper Danian, Aquitaine, *Cidaris*, *Echinocorys*, *Balanocr.*, *Bourguetier*; **Douvillé**.

Danian, Djebel Tar, Tripoli, *Hemi-aster chargensis*, and spp. n. of *Dis-coidea*, *Catopygus*, *Pygorhynchus*; **Krumbeck**.

Upper Senonian or ?Maestrichtian, E. Madagascar, *Epiaster*, *Hemiaster*, *Noetlingia boulei* sp. n.; **Lambert** in **Boule & Thévenin**.

Senonian, Norfolk, *Epiaster*, *Micraster*, *Echinoconus*, *Echinocorys*, *Cardiaster*, *Stegaster*, *Cidaris*, *Cyphosoma*, *Goniaster*, *Pentacr.*; **Brydone**.

Senonian, Carnaby, Yorksh., *Cardi-aster*, *Echinocorys*; **Sheppard**.

Senonian, London Basin, range and locc. of spp. of *Cidaris*, *Cyphosoma*, *Echinocorys*, *Comulus*, *Epiaster*, *Helico-diadema*, *Haenovia*, *Micraster*, *Offaster*, *Calliderma*, *Metopaster*, *Pentaceros*, *Pentagonaster*, *Ophiura*, *Bourguetier*, *Marsupites*, *Pentacr.*, *Uintacr.*; **Treacher & White**.

Senonian, Berkshire, phosphatic chalk, spp. of *Cidaris*, *Helicodiadema*, *Echino-corys*, *Micraster*, *Offaster*, *Metopaster*, *Marsupites*, *Uintacr.*, *Bourguetier*, *Pentacr.*; **White & Treacher**.

Upper Senonian, Grimme bei Löcknitz, *Caratodus avellana*, *Echinocomus roemeri*, and common Echinoids; **Schumann & Leonhard.**

? Senonian, Eure-et-Loire, France, *Pentaceros* sp. n.; **Meunier, 1.**

Senonian, Venetia, *Paronaster* gen. n., *Lampadocorys*; **Airaghi.**

Upper Senonian, Roca, Rio Negro, *Hemiaster*; **Burckhardt.**

Senonian, Pondoland, S. Africa, *Cidaris*, *Hemiaster*, and spp. n. of *Pseudodiadema*, *Cardiaster*, *Cassidulus*; **Woods.**

Upper Turonian, Lincolnshire, *Holaster*, *Echinocorys*, *Micraster*, *Cidaris*, *Infulaster*, *Cyphosoma*, *Galerites*, *Goniaster*; **Burnet.**

Turonian, Tarahuna, Tripoli, *Salenia*, *Orthopsis*; **Parona.**

Turonian, Algeria and Charentes, *Linthia* spp. n.; **Fourtau.**

Cenomanian and Turonian, Sinai and Abu Roash, spp. n. of *Heterodiadema*, *Acanthechinopsis* n., *Micropedina*, *Cyphosoma*, *Thylechinus*, *Coptosoma*, also spp. of *Holactypus*, *Galerites*, *Nucleolites*, *Hemiaster*, *Linthia*; **Gregory.**

Cenomanian, England, zones characterised by *Holaster subglobosus*, *H. treecensis*; horizons of spp. of *Cidaris*, *Echinocyphus*, *Discoidea*; **Bosworth.** See also **Jukes-Browne.**

Cenomanian, Cap de la Hève, *Pentacr.*, *Cidaris*, *Salenia*, *Galerites*; **Combes.**

Cenomanian, S. Tunis, *Heterodiadema*; **Pervinquier.**

Albian, "Gault," Luitere Zug, Switzerland, *Epiaster*, *Holaster*, *Catopygus*, *Discoidea*, *Peltastes*, *Diplopodia*; at Lochwald, *Hemiaster*; **Jacob and Tobler.**

## 2. Lower Cretaceous.

Echinoderms, esp. N. America; **Chamberlin & Salisbury** (iii, 135, fig.).

Barremian, Alpes-Maritimes, *Plegiocidaris* sp. n.; **Savin & Lambert.**

Lower Valanginian, Germany, various locc., *Pentacr.* columnals; **Harbort.**

## c. Jurassic.

Jurassic, Black Hills, Wyoming and Dakota, *Pentacr.*, and spp. n. of *Ophiaster* n. and *Cidaris*; **Whitfield & Hovey.**

### 1. Upper Jurassic.

Gap, France, *Cidaris*; **Haug & Killian.**

Tithonian, Stramberg, list of *Crin.* and *Ech.*; **Remeš, 2.**

Lower Tithonian, Mürtirol, Engadine, *Pentacr.*, *Phyllocr.* cf. *oosteri*; **Zoeppritz, (199).**

Weisser Jura, distrib. of *Sphaerites*; **Schoendorf, 2 (298).**

Sequanian, zone of *Oppelia tenuilobata*, Bavaria, *Stomechinus*, *Holactypus*, *Cidaris*, *Rhabdocidaris*, *Collyrites*; **Wanderer (512, 514, 516, 518).**

Sequanian of Tatahouine, S. Tunis, *Pygurus*, *Aeropeltis*, *Monodiadema*; **Pervinquier.**

Kimmeridgian or Rauracian, Safi, Morocco, *Cidaris*, *Aeropeltis*; **Gentil & Lemoine.**

### 2. Middle Jurassic.

Gap, France, *Cidaris*; **Haug & Killian.**

Callovian of Baune-les-Dames (Doubs), *Collyrites*, *Echinobrissus*, *Holactypus*, *Pygurus*, *Rhabdocidaris*, *Stomechinus*, *Millerier.*; **Petitclerc.**

### 3. Lower Jurassic.

Bathonian, Belfort, Franche-Comté, *Pseudodiadema*, *Stomechinus*, *Hemipedina*; **Maire.**

Lower Bathonian, Alpes Maritimes, *Aerosalenia* sp. n.; **Lambert & Savin.**

## d. Lias (including Rhaetic).

Dorset, lists of *Echinoidea*; **Woodward & Ussher.**

Ubaye, Aveyron, *Pentacr.*; **Haug & Killian.**

Toarcian near Mâcon, *Pentacr.*, *Cidaris*; **Lissajous.**

Lower Lias, S.E. Rheinpfalz, *Pentacr.*; **Renz.**



Sinemurian, Engadine, *Millerier.*, *Pentacr.* in Steinsberger Kalk (191) in Fleckenmergel (193, 196); **Zoeppritz**.

Rhaetic, Kössener Schichten, Engadine, *Crin.*, *Ech.*; **Zoeppritz**, (189).

#### e. Trias.

Echinoderms esp. N. America; **Chamberlin & Salisbury**, (iii, 57).

Silesia, *Encr.*, *Entrochus*, *Dadoer.*, *Aspidura*, *Cidaris*, *Radiolus*; **Ahlburg**.

Raiblian, incl. Pachycardientuff and other beds of S. Tirol, *Cidaris*, *Encrinus*; **Koken**.

### IV. Palaeozoic.

#### a. General.

Europe, America, Australia, *Botryoer.*, *Baryer.*, *Cosmoer.*; **Bather**, 3.

#### b. Permian.

Vacant.

#### c. Permocarboiferous.

Near Forni Avoltri, Carinthia, *Cyathoer.*, *Poteroer.*; **Gortani**, 1.

Gerringong, N.S.W., *Tribrachioer.*, *Phialoer.*; **Dun**.

#### d. Upper Carboniferous.

Echinoderms, esp. N. America; **Chamberlin & Salisbury**, (ii, 617, fig.).

Middle Ouralian?, Forca Pizzul, Carnic Alps, *Archaeocidaris* sp. n.; **Vinassa de Regny & Gortani**, **Gortani**, 2.

Upper Coal Measures, S.E. Kansas, *Cerioer.*, *Brisoer.*, *Hydreionocr.*, *Phialoer.*, *Archaeocidaris*; **Beede & Rogers**.

Upper Red Wall Limest., White River canyon, S.W. of Fort Apache, Gila Co., Arizona, *Cerioerinus*, *Archaeocidaris*; **Reagan**, 1 (239, pl.).

Red Wall Limest., Rocky Mts., *Archaeocidaris*; **Reagan**, 2.

#### e. Lower Carboniferous.

Echinoderms, esp. N. America, **Chamberlin & Salisbury**, (ii, 519, fig., 522, fig., 526, 530, fig.).

Upper Carboniferous Limest., Rouken Glen, Glasgow, *Poteroicrinus*, *Pisocrinus* [sic], *Archaeocidaris*; **Macnair**, (373, 375, 393).

Lower Carboniferous Limest., Cannock Chase, Staffordsh., *Archaeocidaris*, *Crin.*; **Cockin**.

Carboniferous Limestone, Westleigh, Devon, *Crin.*; **Clayden** (48).

*Zaphrentis* zone, Bristol, *Ascoer.*; **Bather** in **Hind**, (173) co. Dublin, *Actinoer.*, *Platycr.*; **Bather** in **Matley** (296).

Altenberg and Katzenlöcher, Hungary, large *Crin.* columnals (29), Bosnia, *Poteroer.* (43); **Frech**.

Nebraska, List of *Ech.* and *Crin.*, *Archaeocidaris*; **Barbour** (127).

Bangor Limest., Cole City, Georgia, *Pentremites* sp. n.; **Schuchert**.

Warsaw group, Salem Lst., Indiana, *Batoer.*, *Dizygoer.*, *Platycr.*, *Poteroer.*, *Ichthyoer.*, *Dichoer.* with *D. blatchleyi* sp. n., *Talaroer.*, *Symbathoer.*, *Pentremites*, *Metablastus*, *Tricoelocr.*, *Archaeocidaris*, *Hol.* spicules; **Beede**.

Kinderhook, Glen Park Limest., Jefferson Co., Mo., *Actinoer.*, *Agarioer.*; **Weller**.

Glenwilliam Carboniferous series, N. of Clarence Town, N.S.W., *Metablastus?*, *Actinoer.*; **Taylor**.

#### f. Devonian.

Echinoderms, esp. N. America; **Chamberlin & Salisbury**, (ii, 456, fig., 459, 464, fig., 470, fig.).

Middle Devonian, Oberste Lenneschiefer, Westphalia, spp. n. of *Rhipidoer.* & *Rhenoer.*, also *Cupressoer.*; **Schmidt**.

Taunusian, Cornwall, large *Crin.* columnars and *Lodanella*; **Green & Sherborn**.

Upper Devonian, Cashaqua horizon, Interlaken, N.Y., *Helianthaster*; **Clarke**, 2 (37).

Portage beds, Naples fauna, Ontario Co., N.Y., *Melocr.*, *Seytalocr.*, *Taxoer.*; **Clarke**, 1 (346, 348, 364).

Hamilton group, New York, *Hypsoer.* gen. n.; **Springer & Slocum**.

Lower Devonian, E. New York, locc. and horizons of spp. of *Melocr.*, *Aspidocr.*, *Homoer.*, *Mariaer.*, *Platycr.*, *Brachioer.*, *Coronocr.*, *Dictyoer.*, *Lepaer.*; **Grabau** (135, 155, 320-323).

Falkland Is., Port Louis South, Crinoid stems like those from Bokkeveld beds figd. Sharpe 1856, pl. xxv, f. 24, also *Crin.* stems from W. Falkland, Hope Point; **Newton** (256).

#### g. Silurian.

Echinoderms, esp. N. America; **Chamberlin & Salisbury**, (ii, 400, fig.).

*Podolia*, *Glyptocr.*, *Cyathocr.*, *Phacites*, *Entrochus*, *Crotaloer.*, *Cupressocr.*; **Stemiradzki**.

Upper Burma, *Crin.* fragments; **Reed** (93).

Ekwan R. (248), Fawn R. (277), Keewatin, Canada, *Crin.* fragments; **Whiteaves**, 1.

Upper,—S. E. New York, Manlius Lst., *Homoer.*, *Camarocr.*; **Grabau** (319).

#### h. Ordovician.

Echinoderms, esp. N. America; **Chamberlin & Salisbury** (ii, 357, fig.).

Bala Limest., Caermarthen, *Echinospaerites*, *Glyptocr.* (634), Redhill beds, *Hemicosmites*; **Evans** (639).

Russia, distrib. of spp. and mutations of *Glyptocystis*, *Asteroblastus*, *Mesites*, *Echinoener.*, *Asteroer.*, *Haploer.*?, *Pentacr.*?, *Cyathocr.*?, *Cheiroer.*, *Bolboporites*; **Lamansky** (79, 171, 178).

Oland, *Sphaeronis*, *Glyptocystis*, *Echinospaera*; **Hedström & Wiman** (104, 106, 108).

Upper,—Nyaungbaw beds, Yemeyé Upper Burma, *Seyphocr.*, *Camarocr.* sp. n.; **Reed** (86, 88); **Holland**.

Lower,—Naungkangyi beds, Upper Burma, spp. nn. of *Aristocystis*, *Helioer.*, *Caryocr.*, *Protoer.*; **Bather**, 4: discussion of age (84), spp. indett. of *Echinoener.*, *Cheiroer.*, *Caryocr.*, *Helioer.*, *Echinospaerites*; **Reed**: *Aristocystis*; **Holland**.

Chazy Formation, New York and Canada, lists of *Cystidea*, *Bolboporites*, *Blastoidocrinus*; **Raymond** (passim).

#### k. Cambrian.

Cystids, *Ecocystis*, esp. N. America; **Chamberlin & Salisbury** (ii, 286, fig.).

Middle,—Nevada, *Ecocystis*; **Pack**.

### III. TAXONOMY AND SYSTEMATIC INDEX. 1031

#### A. ECHINODERMA, GENERAL.†

Physiol. criteria of spp., vide sub *Holothuria*; **Briot**, 2.

*Pelmatozoa* in 5 Classes: *Crinoidea*, *Thecoidea*, *Carpoida*, *Cystoidea*, *Blastoidea*; **MAOBRIDE**, 2.

#### B. HOLOTHURIOIDEA.

Holothurian spicules?; **BEEDE** (1270 pl. xix).

*Allantis*, maintained; **HEROUARD** 2 (6).

*Chiridota laevis*; **DERJUGIN** (90, 149).

—*C. pellucida*, parasitic gregarine; **DOGIEL**.

*Cucumaria* sp., Port Charcot, descr.; **VANEY**, 3 (19).—*C. antarctica* sp. n. various locc. shore to 110 m., Charcot exped.; **VANEY**, 2, Bul. Muséum Paris, 1906 (404): descr., one young; **VANEY**, 3 (6, pl.).—*C. attenuata* sp. n. 20-40 m., Carthage B.; **VANEY**, 2, Bul. Muséum Paris, 1906 (404); described, and young; **VANEY**, 3 (10, pl.).—*C. brunnea*; **WOODLAND** (535).—*C. calcigera*; **DERJUGIN** (148).—*C. communis*; **ÖSTERGREN**.

† A dagger prefixed to the trivial name of a species indicates that it is fossil; prefixed to the name of the author, it denotes that the reference is to the species in a fossil state; prefixed to the name of a genus, it indicates that all species of the genus here recorded are fossil, and the † is therefore not repeated before each name. The abbreviations *l. c.* and *op. cit.* refer only to the place or work quoted immediately before.

When a name and reference are quoted without further statement [e.g. *Ankyroderma danielsseni*; **HEROUARD** (127)], further information can usually be gleaned from the cross-references under TITLES.

—*C. frondosa*; DERJUGIN (pl. ii, 90, 91, 148).—*C. grandis* sp. n. Wandel Id. shore; VANEY, 2, Bul. Muséum Paris, 1906, (405): descr.; VANEY, 3 (12).—*C. irregularis* sp. n., 40 m., Carthage B.; VANEY, 2, Bul. Muséum. Paris, 1906 (405): descr.; VANEY, 3 (14, pl.).—*C. lactea*; RETZIUS (fig.).—*C. laevigata*, juv., descr.; HEROUARD, 2 (12, pls.).—*C. lateralis* sp. n., various locc., shore to 110 m., Charcot Exped.; VANEY, 2, Bul. Muséum Paris, 1906 (405): descr.; VANEY, 3 (15, pl.).—*C. leonina*, descr., ontogeny; HEROUARD, 2 (11, pls.).—*C. planci*; JOHNSTONE (239).—*C. turqueti* sp. n., Biscoe B., 40 m.; VANEY, 2, Bul. Muséum Paris, 1906 (406): descr.; VANEY, 3 (18, pl.).

*Eunypistes eximia*, plate reproduced by three-colour process after a water-colour sketch from life; MITSUKURI.

*Eupyrus scaber*; DERJUGIN (149).

*Holothuria arguinensis* sp. n., Mauritania coast; KOEHLER & VANEY, 3, Bordeaux, Actes soc. linn., 60 (62, pls.).—*H. atra*; HERDMAN, 3 (447).—*H. elleri*, POLARA, 2. — *H. forskali*; DUBOIS; POLARA, 2.—*H. impatiens*; BRIOT, 2.—*H. neillii*; ØSTERGREN.—*H. nigra*, anat.; MACBRIDE, 2 (561).—*H. poli*; POLARA, 2 and 3; BRIOT, 3: physiol. distinction fr. *H. tubulosa*; BRIOT, 2.—*H. stellati*; LO BIANCO (94, 98).—*H. tubulosa*; BRIOT, 2 and 3; POLARA, 2 and 3: Lo BIANCO (94, 98).

*Labidoplax* discussed; BECHER (506).

†*Lorenzina apenninica* Gabelli; similar imprints descr., probably *Hol.* aff. *Pelagothuria*; SIMONELLI, (fig.).

*Mesothuria*, discussed (5), diagnosed (6): *M. bifurcata*, descr. (4, pl.); HEROUARD, 1.—*M. intestinalis*; RETZIUS, (fig.).—*M. murrayi*; HEROUARD, 2, (6).

*Myriotrochus rinki*; DERJUGIN (149).

*Pelagothuria*, general discussion; KENNA: affinities, distrib.: *P. bouvieri* sp. n. N. Atlantic, 31° N. 42° W., surface, descr., anat.; HEROUARD, 3, Bull. Mus. Monaco, 60; BOUVIER, 2, (p. 496, fig. 15).

*Peniagone vignoni*, descr.; HEROUARD, 2, (8, pls.).

*Phyllophorus communis*, synonymy: *P. drummondii*: *P. pellucidus*, synonymy; ØSTERGREN.—*P. urna*; LO BIANCO (98).

(N-9720 m)

*Pseudocucumis cuenoti*, syn. of *P. mixta*: *P. mixta*, synonymy; ØSTERGREN.

*Psolidium convergens* (Her. sub *Cucumaria*), descr., relations to *Semperia*; HEROUARD, 2, (13, pls.).

*Psolus antarcticus*, measured; VANEY, 3, (21).—*P. belgicae*, descr.; HEROUARD, 2, (14, pls.).—*P. charcoti* sp. n. 110 m., Biscoe B.; VANEY, 2, Bul. Muséum, Paris, 1906, (406): descr.; VANEY, 3, (21, pl.).—*P. fabricii*; DERJUGIN, (94, 149).—*P. granulatus* sp. n., Wandel Id., shore; VANEY, 2, Bul. Muséum, Paris, 1906, (407): descr.; VANEY, 3, (23, pls.).—*P. phantapus*; DERJUGIN, (149).—*P. segregatus* sp. n. for *P. squamatus* var. *segregatus* R. Perr.; VANEY, 3, Expéd. antarct. franç. sci. nat. Documents sci. (Paris), 1906, (27 pl.).

*Rhabdomolgus ruber*; BECHER, (509).

*Rhipidothuria racovitzai*, descr.; HEROUARD, 2, (7, pl.).

*Sigmodota studeri*, fragments, HEROUARD, 2, (15).

*Synallactes* sp., Biscoe B., descr.; VANEY, 3, (5).—*S. carthagei* sp. n., 40 m., Carthage B.; VANEY, 2, Bul. Muséum, Paris, 1906 (403): descr.; VANEY, 3, (3, pl.).

*Synallactinae*, tentacular ampullae; HEROUARD, 2, (7).

*Synapta* sp.; BOCHENEK.—*S. buski*; RETZIUS, (fig.).—*S. digitata*; BECHER, (508).—*S. inhaerens*; BECHER, (509); WOODLAND, (556): in plankton. Lo BIANCO, (85).—*S. minuta* sp. n. Helgoland; BECHER, Zool. Anz., Leipzig, 30, (505).

*Thyone fusus*; WOODLAND, (550).—*T. portlocki*; ØSTERGREN.—*T. scotiae* sp. n. (400, figs.), *T. turricata* sp. n. (401, fig.), S. Orkneys, shore; VANEY, 1, Bul. Muséum, Paris, 1906.

*Thyonidium commune*, *T. dubeni*; ØSTERGREN.

*Trochostoma antarcticum*, descr.; HEROUARD, 2, (15).

*Zygothuria*, rejected; HEROUARD, 2, (5).

#### C. ECHINOIDEA.

Taxonomic value of pedicellariae, views of Mortensen discussed; proposed classification of recent *Ech.*: Subclass I,

*Cidariformia*; II. *Diadematiiformia*, Ord. i. *Regularia*, sub-ord. 1. *Diadematiina*, 2. *Saleniina*, 3. *Arbaciina*, 4. *Echinina*; Ord. ii. *Irregularia*, sub-ord. 1. *Clypeastroidea*, 2. *Spatangoidea*; DOEDERLEIN, 2, (65-87).

*Echinoidea* in 3 orders: *Eudocyclica* *Clypeastroidea*, *Spatangoidea*; MACBRIDE 2 (529).

*Abatus* maintained; LAMBERT 8 (101).

†*Acanthechinopsis* gen. n. of *Diploporiidae* with genotype *A. humei* sp. n., Cenomanian, Sinai (wrongly called *A. barroni* p. 227); GREGORY, Geol. Mag. London, n. ser., dec. V, 3 (219, pl.)

*Acanthocidaris*, discussed (96), diagnosed (102); DOEDERLEIN, 2.

†*Acropeltis aequituberculata*; PERVINQUIÈRE: GENTIL & LEMOINE (332, 338, pl.).

†*Aerosalenia*, restricted with *A. spinosa* as type (275): *A. angularis* discussed (296); *A. boloniensis*, referred to *Plesiosalenia* (275), restricted to Cotteau, pl. 253, ff. 1, 2, [not the type]; VALETTE, 2. — *A. guebbardi* sp. n. Bathonian, St. Cézaire, Alpes Marit.; LAMBERT & SAVIN, Nice, Ann. Soc. let. sci. 20 (67, pl.). — *A. incerta* discussed (279): *A. koenigi* (Ag. & Des.) restricted (277): *A. lamareki* referred to *Perisalenia* (279): *A. pseudodecorata*, ambulacrals (296): *A. spinosa*, ambulacrals (296): *A. wiltoni* maintained (279); VALETTE 2.

*Acrosaleniiidae* gen. nm. vide *Thylosalenia*, *Plesiosalenia*, *Perisalenia*.

*Anapesus* maintained, with genotype *A. carolinus* a syn. of *Psammechtius blainvilliei*; LAMBERT 8 (67).

*Anthocidaris purpurea* (v. Martens sub *Toxocidaris*), descr.; DOEDERLEIN, 1 (520).

†*Aplolampas* gen. n. with genotype *A. montevidensis* (Schauroth sub *Echinolampas*); LAMBERT 1, Nice, Ann. Soc. let. sci. 20 (32).

*Aplospatangus* sub. gen. nov. of *Schizaster*, with type *S. eurynotus* Ag.; LAMBERT 7, Paris, Mem. Soc. Geol., Paleont. 14 (113, 114).

*Araeosoma*; SCHURIG (294): diagnosed (121): *A. coriaceum*, descr. (122, fig. pls.); DOEDERLEIN, 2. — *A. fenestratum*; BATHIER, 1.

*Arbacia aequituberculata*; HENRI & KAYALOF. — *A. dufresnii*; KOEHLER, 4 and 5 (29). — *A. punctulata*; MATHEWS, 2. — *A. pustulosa*; ARIOLA: CHECCHIA, 2 (89): FISCHER 1 and 2: LO BIANCO (92).

*Arbaciina*, sub-ord. of *Regularia*, with 1 Fam. *Arbaciidae*; DOEDERLEIN, 2 (86).

*Arbacia*, — †*A. monilis* (pl. iv): *pallaryi*, descr., measured; CHECCHIA, 2 (90, pl. iv). — †*A. parva*; BELLINI (641).

†*Archaeocidaris*, — *A.* sp. interambulacral plate; SCHURIG (341, pl.) — *A. agassizi*; BARBOUR (pl. ii): REAGAN 2. — *A. norwoodi*, var., plates, radioles, teeth; BEEDE (1268, pls. xiv, xvii A). — *A. pizzulana* sp. n. Upper Carboniferous, Carnic Alps; GORTANI in VINASSA DE REGNY & GORTANI, Roma, Boll. Soc. geol. Ital., 24, (586, pl.): radioles GORTANI 2 (19, fig.). — *A. spinoclavata*, *A. triserrata*; BEEDE and ROGERS (385). — *A. tudifer* [sic]; REAGAN 2. — *A. urei*; COCKIN (526): MACNAIR (375).

*Aspidodiadema*, discussed (157), *A. nicobaricum*, descr. (163, pls.), var. n. *meijerei* Banda Sea (165); DOEDERLEIN 2, Wiss. Ergeb. D. Tiefsee-Exp., Bd. 5, 11g. 2.

*Astheuosoma*, discussed; SCHURIG (294). — *A. fenestratum*, *A. lystrix*; BATHIER, 1. — *A. urens* (293), *A. varium* (293-296); SCHURIG.

*Astropyga radiata*; DOFLEIN (190).

*Bolbaster*, as s.g. of *Hemiaster*; LAMBERT 8 (101).

†*Bothriolampas*, simple syn. of *Gitolampas*; LAMBERT 8 (96).

*Brachybrissus* as subgenus of *Schizaster*; LAMBERT 7 (113).

*Brisaster* as subgenus of *Schizaster*; LAMBERT 7 (112, 114).

*Brissoides* Klein, maintained; LAMBERT, 5. — †*B. oppenheimi*; LAMBERT 1 (47).

*Brissoma* as subgenus of *Brissopsis*; LAMBERT 8 (106).

*Brissopsis*, discussed (104) diagnosed (106); LAMBERT 8. — †*B. borsoni*, *genet*, *intermedius*; BELLINI (641). — †*B. (Zeugaster) lusitanicus* discussed; LAMBERT 8 (109). — *B. luzonica*, descr.; DOEDERLEIN, 2 (258, pls.). — *B. lyrifera*, distrib., descr.; DOEDERLEIN, 2 (256, pls.): incl. *Schizaster incertus* ARADUS; CHECCHIA,

2 (93).—†*B. papiolensis* sp. n., Plaisancian, Barcelona (121, pl.): †*B. pliocenicus* sp. n. for *Brissopsis genoi* Sism. var. *pliocenic* Botto-Micca 1896 (121); LAMBERT 8, Paris, Mem. Soc. Geol., Paleont., 14.

*Brissus*, diagnosed with genotype *B. ovalis* (Breyh.); LAMBERT 8 (105).—*B. carinatus*, distrib.; DOEDERLEIN, 2 (256): †GREGORY (255)—*B. unicolor*; CHECCHIA, 2 (93).

†*Bunactis*, s.g. of *Clypeaster*, discussed; LAMBERT 1 (23).

*Calveria fenestrata*; BATHIER, 1.—*C. hystrix*; BATHIER, 1 (249, 432): SCHURIG (293).

†*Caratomus avellana*; SCHUMANN & LEONHARD.

†*Cardiaster*,—*C. africanus* sp. n. Senonian, Pondoland; WOODS, Capo Town, Ann. S. African Mus., 4 (279, pl.).—*C. ananchylis*; SCHUMANN & LEONHARD; SHEPPARD (241): range, *C. colleanus*, *C. erectus*, and *C. pygmaeus*, range; SHERBORN (33).

†*Cassidulus umbonatus* sp. n., Senonian, Pondoland; WOODS, Cape Town, Ann. S. African Mus., 4 (277, pl.).

†*Catopygus*,—*C. cylindricus*; JACOB & TOBLER (20).—*C. rohlfsi* sp. n., Upper Cretaceous, Djebel Tar, Tripoli; KRUMBEK (87, pl.).

*Centrocidaris*, rejected; DOEDERLEIN, 2 (96).

*Centrostephanus longispinus*, descr., first figd.; CHECCHIA, 2 (87, pl. iv).

*Chondrocidaris*, discussed (96), diagnosed (102); DOEDERLEIN, 2.

*Cidaridae*, general discussion of genera; DOEDERLEIN, 2 (88).

*Cidariformia* sub-class. nov., 1 Fam. *Cidaridae*; DOEDERLEIN 2 (85).

*Cidaris* Leske em. Mortensen, discussed (94), name discussed (100), diagnosed (101); DOEDERLEIN, 2: Vide etiam *Cidarites*.—†*C.* sp.; AHLBURG (55, 83).—†*C.* cf. *aeicularis*; LEMOINE (253).—†*C. alpina* Cott.; GERBER (64).—*C. annulifera*; DOEDERLEIN, 2 (94).—†*C. antarctica*; AMEGHINO (172).—†*C. avenionensis*; BELLINI (641, 649): NELLI: radioles, sp. discussed, synonymy; LAMBERT 8 (62).—*C. baculosa*; DOEDERLEIN, 2 (93, 95).—†*C. beaugeyi*; DOUVILLÉ. —†*C. belgica*; BELLINI (641).—†*C. belge-* (N-9720 m)

*fourchensis* sp. n., radiole, Jurassic, Black Hills, Wyo.; WHITFIELD & HOVEY, Bull. Amer. Mus. Nat. Hist., 22 (391, pl.).—†*C. bowerbanki*; BOSWORTH (414, 416, 575).—*C. canaliculata*; DOEDERLEIN, 2 (96).—†*C. cercicornis*; LEMOINE (256).—*C. cidaris*; DOEDERLEIN, 2 (96).

†*Cidaris* [continued],—*C. clavigera*; REMES 1.—*C. coronata*; WANDERER (512, 514, 516).—*C. dissimilis*; BOSWORTH (416).—*C. florescens*; BELLINI (641).—*C.* cf. *florigemma* GENTIL & LEMOINE (332, 338).—*C. fragilis*; BELLINI (641).—*C. glandifera* radioles; HAUG & KILIAN (10).—*C. grandaeva*; AHLBURG (50, 52).—*C.* cf. *halaensis*; LEMOINE (255, 256, 257).—*C. hirudo*; BOSWORTH (414).—*C.* cf. *hirudo*, radioles, Pondoland; WOODS (276).—*C. julianensis*; AMEGHINO (172).—*C. koechlini*; HAUG and KILIAN (12).—*C.* cf. *koechlini*; LEMOINE (127).—*C. melitensis*; BELLINI (641): Auctt. non Forbes; NELLI. — *C. moorei*?, interambulacra descr., English and French forms distinguished; LISSAJOUS (11): is *Plegiocidaris*; LAMBERT 6. — *C. oxyrine*; BELLINI (641).

*Cidaris* [contd.],—*C. papillata*, distrib.; DOEDERLEIN, 2 (103).—†*C. perornata*; BURNET.—*C. pistillaris*; DOEDERLEIN, 2 (95).

†*Cidaris* [contd.],—*C. rosaria*; BELLINI (641, 649): CHECCHIA 2 (pl. iv).—*C. sceptrafer*; BURNET: REMES 1.—*C. soldanii*; CHELUSSI (274).—*C.* cf. *spinigera* (256), *C. striatogramosus*, (253); LEMOINE.—*C. transversa*; AHLBURG (46, 50, 52).—*C. verticillatus*; LEMOINE (256).—*C. vesiculosa*; COMBES (464, fig.): SCHUMANN & LEONHARD.—*C. zeamais*; BELLINI (641, 649).

*Cidarites* name discussed (100), diagnosed (101), *C. affinis* and *C. metularia*, distrib. (104); DOEDERLEIN, 2 †*C. variolaris*; COMBES (464, fig.)

†*Clypeaster*, general discussion of spp.; LAMBERT 1 (7).—*C. aedivis*; DOUVILLÉ, R. (105, 133): redefined; LAMBERT 1 (26).—*C. almerai*; sp. n., Tortonian, Barcelona; LAMBERT 8, Paris, Mem. Soc. Geol., Paleont., 14, (89, pl.).—*C. alticostatus*; LAMBERT 8 (88).—*C. altus*; BELLINI (641): FRITEL (384, fig.): (Klein-Leske), distinguished, synonymy; LAMBERT 1 (15, 16).—*C. barcinensis* sp. n., Tortonian, Barcelona; LAMBERT 8, Paris, Mem. Soc. Geol., Paleont., 14, (84, pl.).—*C. beaumonti*

Sism. non Michelin, perhaps incl. *C. regulus* Laube (12): *C. bunopetalus* made var. of *C. scillae* (25); LAMBERT 1. — *C. calabrus* sp. n., for *C. intermedius* Seg. non. Desm., var. *calabra* Seg.; LAMBERT 1, Nice, Ann. Soc. let. sci. 20, (14): probably syn. of *C. petaliferus*; LAMBERT 8 (87). — *C. campanulatus* (Schloth.), Burdigalian, revived, synonymy; LAMBERT 1 (14). — *C. crassiosotatus*; BELLINI (641): NELLI: LAMBERT 1 (24). — *C. crassus*, discussed, descr. (23, 26, 27, pl.): *C. gibbosus* M. de Serres, distinguished and revived (17): *C. grandiflorus* Bronn, discussed and defined with var. *rhabdopetala* (23); LAMBERT 1.

*Clypeaster* [continued]. — *C. humilis*; HERDMAN 3 (447): †GREGORY (254).

†*Clypeaster* [contd.]. — *C. intermedius*; LOJACONO (6, 19): Desmoulin, distinguished (13), from Vence (52); LAMBERT 1: synonymy; LAMBERT 8 (85, pl.): var. n. *druvensis* Burdigalian, Drôme; LAMBERT 1, Nice, Ann. Soc. let. sci. 20 (14). — *C. laganoides* Ag., em. Michelin, non Airaghi (11), descr. (22, pl.), radiogram (57, pl. x): *C. latirostris*, discussed, synonymy (10): var. n. *inflata*, Burdigalian, Vence (21, pl.): var. n. *italica*, based on Seillia's figure X, 2 (10, 19): var. n. *pedemontana*, Helvetian, based on Airaghi's figure (11): var. n. *subovalis*, Burdigalian, Vence (20, pl.): var. n. *tourretensis*, Burdigalian, Tourrettes, Vence (20, pl.): var. *ventiensis* (18, pl.): var. n. *vin-dobonensis*, Miocene, Gauderndorf, Wien (10, 19); LAMBERT 1, Nice, Ann. Soc. let. sci. 20. — *C. leskei*; DOUVILLÉ, R. (105). — *C. malladai* sp. n., Helvetian, Minorca; LAMBERT 8, Paris, Mem. Soc. Geol., Paleont. 14 (88, pl.). — *C. mariae* sp. n. for *C. lovisatoi* Cott. non. Seg., Miocene, Sardinia; LAMBERT 2, Rev. Paleozool., Paris, 10 (127). — *C. marginatus*; LAMBERT 8 (83): incl. *C. tarbellianus*, distinct from *C. tenuipetalus*; LAMBERT 1 (13). — *C. martini* Desmoulin, distinct from *C. martini* Michelin (11), synonymy, descr. (21); LAMBERT 1. — *C. michelotti* Ag. em. Michelin; LAMBERT 1 (12), and 8 (86). — *C. oppenheimi* sp. n., Burdigalian, Vence; LAMBERT 1, Nice, Ann. Soc. let. sci. 20 (27, pl.). — *C. partschii*; VADASZ (331). — *C. parviterculatus*; DOUVILLÉ, R. (105, 133). — *C.*

*pentadactylus* Gauth., probably var. of *C. grandiflorus* (26): *C. placenta* (23, 28); LAMBERT 1. — *C. portentosus*; LOJACONO (6, 19). — *C. pyramidalis*; op. cit. (6, 18): NOSZKY (466). — *C. redii*; NOSZKY (468). — *C. rhabdopetalus* maintained (25) but see *C. grandiflorus*; LAMBERT 1. — *C. scillae* discussed; LAMBERT 8 (121): (23), defined, with varr. *crassitesta* nov., *bunopetala* (25), *tauriniensis* nov. (26); LAMBERT 1, Nice, Ann. Soc. let. sci. 20. — *C. scutellatus*, discussed, descr. from Barcelona; LAMBERT 8 (81, pl.). — *C. scutiforme*; GREGORY (254). — *C. tenuipetalus* Seg. revived; LAMBERT 1 (13).

*Clypeastroidea*, sub-ord. of *Irregularia*, with Famm. 1. *Fibulariidae*, 2. *Clypeastriidae*, 3. *Laganidae*, 4. *Scutellidae*; DOEDERLEIN, 2 (87).

†*Clypeus ploti* (= *C. sinuatus*); FRITEL (127, fig.).

†*Codiopsis*, restricted with genotype *C. doma* (289): *C. alpina* distinguished from *C. lorini* and made type of *Pseudocodiopsis* (290): *C. arnaudi* referred to *Pseudocodiopsis* (291): *C. jaccardi* (304): *C. lorini*, ambulacrals (303); VALETTE 2.

*Coelopleurus floridanus*, Agulhas bank, pedicellariae, spicules (181, pls.): *C. maillardi*, pedicellariae, spicules (182, pls.); DOEDERLEIN, 2.

†*Collyrites elliptica*, distinguished from *C. dorsalis*; PETITOLERC (66).

†*Conoclypeus plagiosomus*?; NOSZKY (466).

†*Conulus*, vide etiam *Echinoconus* et *Galerites*. — *C. albogalerus*; TREACHER & WHITE: range, synonymy; SHERBORN. — *C. castaneus*, *globulus*, *orbignyianus*, et *subrotundus*: range and synonymy; SHERBORN.

†*Coptosoma abbatei* (223): *C. gunnemensis* sp. n. Cenomanian?, Sinai (224, pl.); GREGORY, Geol. Mag. London, n. ser., dec. v, 3.

*Cyanosoma urens*; SCHURIG (293).

†*Cypholampas sectio* n. of *Echinolampas*, with type *E. stelliferus*; LAMBERT 1 Nice Ann. Soc. let. sci. 20 (33).

†*Cyphopygus* Pomel as subgenus of *Goniopygus*, made gen. n., with *C. major* and *C. coquandi*; VALETTE 2, Auxerre, Bul. soc. sci. hist. nat. Yonne 59 (280).

†*Cyphosoma abbatei*, refd. to *Coptosoma* (223): *C. beadnelli*, sp. n. Conomanian or Turonian, Abu Roash, Egypt (221 pl.); GREGORY, Geol. Mag. London, n. ser., dec. v, 3.

*Cystechinus*? sp., pedicellariae; DOEDERLEIN, 2 (242, fig.)

*Dermatodiadema* (158): *D. antillarum*, S. of Canaries (158): *D. indicum*, descr. (158, pls.): *D. molle*, descr. (160, pls.); DOEDERLEIN, 2.

*Diadema*,—†*D. desori*; BELLINI (641).—*D. saxatile*; DOEDERLEIN, 2 (166, fig.).—*D. setosum*; DOFLEIN (190).

*Diadematiidae*, gen. n. vide *Pseudocodopsis*; VALETTE 2.

*Diadematiiformia* sub-class nov., Ord. i. *Regularia*, ii. *Irregularia*; DOEDERLEIN, 2 (85).

*Diadematina*, sub-ord. of *Regularia*, with Tribus 1. *Streptosomata*, 2. *Stereosomata*; DOEDERLEIN, 2 (86).

†*Diademopsis* discussed (282, 301, 311), defined with list of spp. (286): *D. aequituberculata* (300); VALETTE 2.—*D. serialis*; loc. cit.: FRITEL (230, fig.).

*Diplodetus* as section of *Brissopsis*; LAMBERT 8 (106).

†*Diplopodia* restricted with type *D. subangularis* (292): *D. aroviensis* distinguished from *D. subangularis* (307): *D. bipunctata* distinguished (306); VALETTE 2.—*D. brongniarti*; JACOB & TOBLER (20).—*D. cotteai* sp. n. for *D. bipunctata* from Laignes, Cotteau, Pal. franc. pl. 340 (307): *D. courtaulti* (308): *D. drogiaca* (307): *D. pentagona*, confused by Cotteau with *Pseudodiadema depressum* (305): *D. picteti* (308): *D. raulini*, ambulacrals (308); VALETTE 2, Auxerre, Bul. soc. sci. Yonne, 59.—*D. semamensis*, refd. to *Acanthechinopsis*; GREGORY (220).—*D. variolaris*; VALETTE 2 (309).

*Diplopodiidae*, genn. nn. vide *Acanthechinopsis*, *Pseudoplopodia*.

*Dipneustes*, diagnosed; LAMBERT 7 (113).

*Discoidaris* discussed (97), diagnosed (102); DOEDERLEIN, 2.

†*Discoidea* (vel *Discoides*).—*D. cylindrica*; JUKES-BROWNE (511): WOLLEMAN: et var.; BOSWORTH (414, 416, 575).—*D. decoratus*; JACOB & TOBLER (20).—*D. dixoni*; range; SHERBORN (32).

—*D. nachtigali* sp. n., Upper Cretaceous, Djebel Tar, Tripoli; KRUMBEK, Palaeontographica, Stuttgart, 53 (86, pl.).—*D. peroni*; DOUVILLÉ, R. (77).—*D. subuculus*; BOSWORTH (575).

*Ditremaster*, syn. of *Opissaster*; LAMBERT 8 (102).

*Dorocidaris* discussed; VALETTE 2 (283): A. Ag. em. Mortensen, discussed (92), name discussed (100), diagnosed (101); DOEDERLEIN, 2.—†*D. balearis* sp. n., Helvetian, Minorca; LAMBERT 8, Paris, Mem. Soc. Geol., Palaeont., 14, (65, pl.).—*D. papillata*; CHECCHIA, 2 (87, & †pl. iv): LO BIANCO (92).—*D. tiara*; DOEDERLEIN, 2 (94).

†*Echinanthopsis* discussed; LAMBERT 8 (98).

*Echinanthus* discussed; loc. cit.—†*E. corsicus*; LAMBERT 8 (99): of Cotteau is *Tristomanthus*; LAMBERT 1 (42).

†*Echinaraechnius mirabilis*; TOKUNAGA.

*Echinidae*, discussed (202), key to genera (203); DOEDERLEIN, 2: trib. nov. *Noettinginae*; LAMBERT in BOULE & THÉVENIN (13): gen. n. vide *Protocentrotus*.

*Echinina*, sub-ord. of *Regularia*, with Famm. 1. *Stomopneustidae*, 2. *Temnopleuridae*, 3. *Echinidae*, 4. *Echinometridae*, 5. *Toxopneustidae*; DOEDERLEIN, 2 (86).

*Echininae* discussed; DOEDERLEIN, 2 (202).

†*Echinobrissus*, vide etiam *Nucleolites*,—*E. clunicularis*, distrib.; PETITCLERC (67): Callovian, Doubs apud Petitclerc = *Nucleolites latiporus*; LAMBERT 3.—*E. humei* sp. n. cum varr. *alta* et *subrotunda*, Turonian, E. Sinai; FOURTAU, Cairo, Bull. Inst. Egypt, (ser. 4), 6 (148, pl.).

*Echinocardium* discussed (110) and defined with genotype *E. atropos* (113) synn. *Moera*, *Moira*; LAMBERT 7.—*E. cordatum*; CHECCHIA, 2 (93).—†*E. depressum*, discussed; LAMBERT 1 (54).—*E. flavescens*, distrib.; DOEDERLEIN, 2 (268).—†*E. nff. intermedium*; VADASZ (333).—*E. mediterraneum*, descr., measured, first figd.; CHECCHIA, 2 (94, pl. iv)—†*E. oppenheimi* sp. n. for *E. gibbosum* Oppenh. non. Gray [? Ag.], Burdigalian, Schio; LAMBERT 1, Nice, Ann. Soc. let. sci. 20, (55).

†*Echinoconus*, vide etiam *Conulus* et *Galerites*.—*E. cairoli*; DOUVILLÉ, R. (77, 210, pl.).—*E. orbignyanus*; BRYDENE (75, 127).—*E. roemeri*; SCHUMANN & LEONHARD. — *E. vulgaris*; BRYDENE, (129).

*Echinocorythidae*, gen. nondescr.; DE MEIJERE: gen. n. vide *Meijerea*.

*Echinocorythinae*, vide *Paronaster*.

†*Echinocorys*.—*E. concava*; AIRAGHI (110).—*E. fakhyri* sp. n., DANIAN, Egypt; FOURTAU, Cairo, Bull. Inst. Egypt, ser. 4, 6 (150, pl.).—*E. granulatus*?; REMŠ 1.—*E. scutatus*; BURNET: et varr.; TREACHER & WHITE, WHITE & TREACHER: range, synonymy; SHERRORN (31).—*E. tenuituberculatus*; DOUVILLÉ, R. (76, 170).—*E. vulgaris*, BRYDENE (129); DOUVILLÉ, R. (173); SHEPARD.

*Echinocrepis*? sp., descr., pedicellariae; DOEDERLEIN, 2 (269, pls.).

*Echinocyamus pusillus*; CHECCHIA, 2 (93); JOHNSTONE (239); LO BIANCO (97, 98); †DOLLEUS (370); distrib.; DOEDERLEIN, 2 (231).—*E. scaber*, distrib., notes; op. cit. (235, pl.).—†*E. studeri*; BELLINI (641).

†*Echinocyphus difficilis*; BOSWORTH (414, 575).

*Echinodiscus* Breyn. 1732, genotype *E. orbicularis*, discussed, limited; LAMBERT 8 (124).

*Echinolampas*, discussed; DOEDERLEIN, 2 (240): discussed (28), defined with sections *Aplolampas*, *Miolampas*, *Merolampas*, *Cypholampas*, *Macrolampas*, *Scutolampas*, *Isolampas*, *Palaeolampas* (33); LAMBERT 1.

†*Echinolampas*, — *E. africanus*, measured; GREGORY (251).—*E. angulatus*; LAMBERT 8 (94); NELLI: Alessandri non Merian, discussed; Merian's sp. is *Progonolampas*; LAMBERT 1 (35).—*E. atrophus*, sp. n., Helvetian, Minorca; LAMBERT 8, Paris, Mem. Soc. Geol., Paleont., 14, (94, pl.).—*E. barcinensis* sp. n., Burdigalian, Portugal, based on *E. hemisphaericus* var. *maxima* De Lor.; LAMBERT 1, Nice, Ann. Soc. let. sci. 20, (40); Barcelona, is here distinguished from de Loriol's var. *maxima*; LAMBERT 8 (91, fig.).—*E. blainvillei* (35); *E. cotteani* sp. n. for *E. heberti* Cott., Eocene St. Palais (40); LAMBERT 1, Nice, Ann. Soc. let. sci. 20.—

*E. feiranensis* sp. n., Miocene?, Sinai (252, pl.); *E. fraasi*, measured; GREGORY Geol. Mag., London, n. ser., dec. V, 3 (252).—*E. francei* Desm. non Desor. nec Sism., descr.; LAMBERT 1 (38, pl.).—*E. globulus*, measurements; GREGORY (251).—*E. quehardi* sp. n., Burdigalian, Vence; LAMBERT 1, Nice, Ann. Soc. let. sci. 20, (36, pl.).—*E. heberti* (Cott. sub *Pygaulus*) restored for *E. francei* Desor non Desmoulin; op. cit. (40).—*E. hemisphaericus* discussed; LAMBERT 1 (39) and 8 (91, fig.); var. *linkii*, incl. var. *rhodensis*, measured; VADASZ (331).—*E. aff. insignis*; GREGORY (253).—*E. italicus* sp. n. for *E. hemisphaericus* Manzoni non Lam.; LAMBERT 8, Paris, Mem. Soc. Geol., Paleont., 14, (93).

*Echinolampas* [continued].—*E. koenigi*, synonymy; LAMBERT 1 (28).—†*E. laurillardii*, mere var. of *E. hemisphaericus*; LAMBERT 8 (92).—*E. ovata*, measured; DOEDERLEIN 2 (240).—†*E. plagiosomus*; NELLI: discussed; LAMBERT 1 (38, pl.).—*E. richardi*; †LAMBERT 8 (92): distinguished and measured; DOEDERLEIN 2 (240).—†*E. savini* sp. n., Burdigalian of Provence, also young; LAMBERT 1, Nice, Ann. Soc. let. sci. 20, (34, pl.).—†*E. scutiformis*; LOJACONO (6, 19): discussed; LAMBERT 1 (37).

*Echinometra lucunter*; †GREGORY (253); DOEDERLEIN, 2 (233).—*E. mathaei*; loc. cit.

†*Echinopedina ameghinoi*; AMEGHINO (172).

*Echinothrix*, radioles discussed (166, fig.); *E. calamaris* and *E. diadema*, pedicellaria (168, fig.); DOEDERLEIN, 2.

†*Echinothuria floris*; SCHURIG (293).

*Echinothuridae*; DOEDERLEIN, 2 (120).

*Echinotrochus* Pomel non Van Phelsum, syn. of *Rotula*; LAMBERT 8 (126).

*Echinus*, discussed (203, 210); DOEDERLEIN, 2.—*E. acutus*; CUENOT: CHECCHIA, 2 (89); distrib.; DOEDERLEIN, 2 (212).—*E. affinis*, distrib.; loc. cit.—†*E. batheri* sp. n., Pleistocene, Ficcarazzi, Sicily; CHECCHIA 2 (pl. iv.).—*E. brevispinosus*; FISCHER 1 and 2.—*E. cidaris*; DOEDERLEIN, 2 (99).—*E. diadema*, discussed; KOEHLER 5 (38).—†*E. duciei* is *Schizochinus*; LAMBERT 8 (74).—*E. elegans*, distrib.; DOEDERLEIN, 2 (211).—*E. esculentus*; JOHNSTONE (241): anat.; MACBRIDE 2 (504).—*E. gilchristi*,



distrib. (213, pls.), descr. (215), var. *hirsuta* Agulhas current, descr. (olim *E. hirsutus* Doed.) (213); DOEDERLEIN, 2.—†*E. hungaricus*; VADASZ (329)—*E. mayellanicus*; KOEHLER 4: (30), discussed (35); KOEHLER 5: vide etiam *Notechinus*.—*E. margaritaceus*; KOEHLER 4: Lam., as interpreted by A. Aga-siz, redescr. from Booth-Wandel Id., Mortensen's views discussed; KOEHLER 5 (30, pls.): vide etiam *Sterechinus*.—*E. melo*; CHRECOŪIA, 2 (89).—*E. microtuberculatus*; DRAGO: DRIESCH 2: HERBST 1: LO BIANCO (92): PETER: vide etiam sub *Parechinus* et *Psammechinus*.—*E. miliaris*; JOHNSTONE (239, 241).—*E. variegatus* Lam., the type is a *Tripneustes*; LAMBERT 8 (66).—†*E. verruculatus* (?); GREGORY (253).

†*Encope tateltaensis* sp. n. Pliocene, Tuxtepec division, Sta. Maria Tatelta, Mexico; BOESE 1, Mexico, Bol. Inst. geol., 22, 1906, (71, pls. vi, vii), and 2 (5).

†*Epiaster*,—*E. gibbus*; BRYDNE (127): range; SHERBORN (32).—*E. nutria*; LAMBERT in BOULE & THÉVENIN (10, pl. ii).—*E. ricordeani*; JACOB & TOBLER (19).

*Eupatagus* Ag., not to be corrected to *Euspatangus*; LAMBERT 5.

†*Euspatangus croizieri*; LEMOINE (256).

*Faorina* discussed; LAMBERT 8 (101).

†*Fibularia acuta*; TOKUNAGA.—†*F. volva*; GREGORY (254).

†*Galerites*,—vide etiam *Conulus* et *Echinoconus*,—*G. globulus*; BURNET.—*G. subnuculus*; COMBES (464).—*G. thomasi*; GREGORY (226).

†*Galerolampas* discussed; LAMBERT 8 (95).

*Genocidaris* (189): *G. maculata* descr. (198, pls.); DOEDERLEIN, 2.

†*Giroppygus* Gauthier, rejected; LAMBERT in MEUNIER 2 (235).

†*Gitolampas* discussed; LAMBERT 8 (95).—*G. tinetana* (Gauthier sub *Pliolampas*); LAMBERT in MEUNIER 2 (234).

*Glyphocyphinae*, vide *Temnechinae*.

*Glyptocidaris crenularis* (A. Ag. sub *Phynosoma*), descr.; DOEDERLEIN, 1 (520).

*Goniocidaris* discussed (97), diagnosed (102); DOEDERLEIN, 2.—*G. jorgensis*; ANEGHINO (172).

†*Goniopygus*, restricted with *G. menardi* as type (280): *G. intricatus* discussed and referred to *Polygontopygus* (281): *G. pellatus* (299); VALETTE 2.

†*Gregoryaster* gen. n. of *Spatangidae*, for *Schizaster grateloupi* Sism., *Pericosmus coranguinum* (Greg.), and *P. arpadis* Pavay; LAMBERT 1. Nice, Ann. Soc. let. sci. 20 (45).

†*Guettaria rocardi*; LEMOINE (224, 225, 227).

*Gymnocidaris* (100), diagnosed (101); DOEDERLEIN, 2.

*Gymnopatagus*, diagnosed (266): *G. valdiviae*, descr. (266, pls.); DOEDERLEIN, 2.

†*Hagenowia rostrata*, range; SHERBORN (33).

*Heliophora* Ag., limited, and distinguished from *Rotuloidea*; LAMBERT, 8 (126).

*Hemiaster* discussed; LAMBERT 8 (101).—†*H.* sp.; LAMBERT in BOULE & THÉVENIN (11, pl. ii).—†*H. africanus*, *battensis* [sic], et *blanckenhorni*; GREGORY (248).—*H. cavernosus*, incl. *H. gallegosensis* and *Tripyllus excavatus*, *pedicellariae*; DOEDERLEIN, 2 (248, pl.).

†*Hemiaster* [continued].—*H. chargensis*, Tripoli; KRUMBECK (90, pl.).—*H. chauveneti*; GREGORY (248).—*H. aff. cristatus*; BURCKHARDT (211, pl.).—*H. dalli*, referred to *Opissaster*; FOURTAU, (143).—*H. forbesi* Baily, descr.; WOODS (280, pl.).—*H.ourneli* (247): *H. jullieni* (248); GREGORY.—*H. kalksburgensis*; VADASZ (333, pl.).—*H. minimus*; JACOB & TOBLER (22): range; SHERBORN (33).—*H. nicaisi*; GREGORY (248).—*H. numidicus*; DOUVILLÉ, R. (77).—*H. phrynius*; LEMOINE (206).—*H. pseudo-fourneli*, measured; GREGORY (247).—*H. pullus*; BURCKHARDT (211, pl.).—*H. saadensis*; GREGORY (248).—*H. sudanensis*, age discussed; KRUMBECK (91, 134).

*Hemiaster* [contd.].—*H. zonatus*? Rockall, *pedicellariae*; DOEDERLEIN, 2 (247, pl.).

*Hemicidaridae*, gen. nn. vide *Polygontopygus*, *Cyphopygus*; VALETTE 2.

†*Hemicidaris crenularis*, incl. *Hemipygus tuberculosus*, as young; SÉGUIN 1 (figs.), and 2.

†*Hemicodiopsis* rejected; VALETTE 2 (291).

†*Hemiheliopsis* gen. n. of *Scutellidae Rotulinae* (127) with genotype *H. fontii* sp. n. Pleiocene, El Rostel, Rio d'Oro, W. Africa. (128, pl.); LAMBERT 8, Paris, Mem. Soc. Geol., Paleont., 14.

†*Hemipatagus* maintained; LAMBERT 1 (48).—*H.* cf. *hofmanni*; NOSZKY (468).

*Hemipelidina* discussed (282, 301, 311), defined with list of spp. (287): †*H. gigniacensis*, ambulacrals (302); †*H. icauensis*, ambulacrals (301); †*H. letteroni* (302); VALETTE 2.—†*H. mairei*; Maire.—*H. mirabilis*, descr., incl. *H. indica* Meij.; DOEDERLEIN, 2 (174, pls.).

†*Hemipygus tuberculatus* is young of *Hemicidaris crenularis*; SÉGUIN (figs.) 1 and 2.

†*Heterobrissus formae*; BELLINI (649).

†*Heterocrotus mammillatus*; GREGORY (253).

†*Heteroclypeus* is syn. of *Hypso-clypeus* (32): *H. hemisphaericus* Greg. is an *Echinolampas*, probably the same as *Hypso-clypeus doma* or *H. oranensis* (31, 38); *H. subpentagonalis* Greg. is a *Hypso-clypeus* (31); LAMBERT 1.

†*Heterodiadema bigranulatum* sp. n., Cenomanian, Sinai; GREGORY, Geol. Mag. London, n. ser., dec. V, 3, (218, pl.).—†*H. libycum*, PERVINQUIÈRE.

†*Hipponoë parkinsoni*; BELLINI (641).

*Histocidaris* discussed (99), diagnosed (103): *H. elegans*, descr. (117, pls.); DOEDERLEIN, 2.

†*Holaster*.—*H. curinatus*, *H. laevis*; WOLLEMAN.—*H. perezii*; JACOB & TOBLER (20).—*H. placenta*; BURNET: range; SHERBORN (33).—*H. planus*; PURNET; CLAYDEN (142, pl.): large, 90 × 61 × 53 mm.; PÉROT: range; SHERBORN (33).—*H. subglobosus*; BOSWORTH (413); JUKES-BROWNE (509); WOLLEMAN.—*H. sylvaticus*; DOUVILLÉ, R. (78).—*H. trecensis*; BOSWORTH (416); JUKES-BROWNE (509).

*Holcopneustes*, syn. of *Hemiaster* s. str.; LAMBERT (102).

†*Holotypus*, — *H. cenomanensis*, measured; GREGORY (225). *H. coral-linus*; WANDERER (512, 514, 518).—*H. depressus*; PETITCLERC (68).—*H. jullieni*, measured (225); *H. larteti* (226); *H.*

*turonensis*, perhaps young of *H. crassus* (225); GREGORY.

*Hygrosoma* discussed; SCHURIG (294): diagnosed (136) spp. discussed (137), comparative measurements of spp. (144); DOEDERLEIN, 2.—*H. aethiopicum*, diagnosed, descr.; op. cit. (141, pls.): diagnosed (296), described (299); SCHURIG.—*H. hoplacanthum*, diagnosed, descr. (138, pls.); *H. luculentum* (121), diagnosed, descr. (143, pls.); DOEDERLEIN, 2.

†*Hyplechinus patagonensis*; AMEGHINO (137, 169).

†*Hypsaster* aff. *convexus*; DOUVILLÉ, R. (77).

*Hypsiechinus* discussed; DOEDERLEIN, 2 (187–188).

†*Hyposoclypeus* discussed; LAMBERT 1 (30).

*Hypospatagus* not to be corrected to *Hypospatangus*; LAMBERT 5.

†*Hypospatangus peroni*; NELLI.

†*Iheringina patagonensis*; AMEGHINO (137–169).

†*Infulaster boulei*; LEMOINE (227).—†*I. excentricus*; BURNET: range; SHERBORN (32).

*Irregularia*, order of *Diademati-formia*, with sub-ordd. *Clypeastroidea*, *Spatangoidea*; DOEDERLEIN, 2 (87).

†*Isechinus praecursor*; AMEGHINO (137, 169).

†*Ieolampas* Lambert, section of *Echinolampas*, with type *I. goujoni*; LAMBERT 1 (33).

*Kleinia* as subgenus of *Brissopsis*; LAMBERT 8 (107).

†*Koilospatangus* gen. n. of *Spatangidae* for *Perispatangus* Fourtau 1905, non *Peripatagus* Koehler 1895; LAMBERT 5 Rev. paleozool., Paris, 10, (185).

*Laganum*, — †*L. decagonalis*; TOKUNAGA.—*L. depressus*; HERDMAN 3 (448); †GREGORY (254).

†*Lampadaster grandidieri*; LEMOINE (225, 227).

†*Lampadocorys dallagoi* (Airaghi sub *Stegaster*); AIRAGHI (110, pl. iv).

*Lamprechinus*, diagnosed (189): *L. nitidus*, descr. (190, pls.); DOEDERLEIN, 2.

*Leiocidaris*, syn. of *Phyllacanthus*; DOEDERLEIN, 2 (100).—†*L. sismondai*, radioles, distinction from *Cidaris avenionensis*; LAMBERT 1 (3), and 8 (65).

†*Leptechinus* Törnquist [i.e. Törnquist] is syn. of *Perischodomus*; THIÉRY 1: is *Törnquistellus*; THIÉRY 2 and BATHIER 2.

*Leucaster*, syn. of *Hemiasiter* s. str.; LAMBERT 8 (102).

*Linthia*, no constant difference from *Hemiasiter*; GREGORY (249).

†*Linthia*.—*L. conica* mut. n. *engolismensis*, Turonian of Charentes, olim *L. oblonga* Auctt. (170, pl.): *L. duncani* sp. n. Cenomanian? Wady Budra, Sinai, ? = *L. oblonga* d'Orb. pars. (162, pl.); FOURTAU, Cairo, Bull. Inst. Egypt (ser. 4), 6. —*L. gaudryi*; AMEGHINO (137, 169).—*L. insolita* sp. n., Lower Turonian, Batna, Algeria; FOURTAU, Cairo, Bull. Inst. Egypt, ser. 4, 6 (168, pl.).—*L. joannis bohmi*; AMEGHINO (51).—*L. locardi*: *L. cf. lorioli*; NELLI.—*L. oblonga*, variations discussed, compared with *Hemiasiter*; GREGORY (249): d'Orb., cotypes descr., species imaginary; FOURTAU (158).—*L. roachensis*?; GREGORY (248).

*Linthia* [contd.].—*L. rotundata* sp. n. Chatham Id., 20 M.; DOEDERLEIN, 2, Wiss. Ergeb. D. Tiefsee-Exped. Bd. 5, Lfg. 2 Jena (249, pls.).—†*L. verneuilli* var. n. *batnensis*, Turonian, Algeria, olim *L. oblonga* Auctt.; FOURTAU, Cairo, Bull. Inst. Egypt, ser. 4, 6 (165, pl.).

*Lovenia elongata*; †GREGORY (255): pedicellariae; DOEDERLEIN, 2 (265, pl.).

*Loxechinus gibbosus*, is *Toxocidaris*; DOEDERLEIN, 2 (202).

†*Lysechinus*, discussed; DOEDERLEIN, 2 (183).

*Lytechinus* syn. of *Anapesus*; LAMBERT 8 (68).

†*Macrolampas sectio* n. of *Echinolampas*, with type *E. hemisphaerica*; LAMBERT 1, Nice, Ann. Soc. let. sci. 20 (33).

*Marelia elevata* sp. n., Wituland, E. Africa, 693 M.; DOEDERLEIN, 2, Wiss. Ergeb. D. Tiefsee-Exped. Bd. 5, Lfg. 2, Jena (263, pls.).—†*M. guebhardi*: †*M. ocellata*, discussed, is *Hemipatagus*; LAMBERT 1 (47).—†*M. omalusi* Galeotti = *M. grignonensis* (Desmar.) Cott.; LERICHE (402).

*Meijerea* gen. n. of *Ananchytidae* [*Echinocorytidae*] (242) with genotype *M. humilis* (Meij. sub *Phrissocystis*) descr. (243, pls.); DOEDERLEIN, 2.

†*Menuthiaster cotteavi*; LEMOINE (227).

*Meoma* diagnosed; LAMBERT 8 (106).

†*Merolampas* Pomel, defined as section of *Echinolampas*; LAMBERT 1 (33).

*Metalia* diagnosed; LAMBERT 8 (106).

†*Micraster*.—*M. coranginum*; BRYDENE (127, 129): range; SHERBORN (32).—*M. corbovis*; BURNET: range; SHERBORN (32).—*M. cortestudinarium*; BURNET: CLAYDEN (142, pl.): range; SHERBORN (32).—*M. leskei*; BURNET: range; SHERBORN (32).—*M. meunieri*; LEMOINE (227).—*M. praecursor*, range; SHERBORN (32).

†*Micropedina bipatellis* sp. n., Cenomanian, Sinai; GREGORY, Geol. Mag. London, n. ser., dec. v, 3 (220, pl.).

*Micropyga tuberculata*, descr.; DOEDERLEIN, 2 (169, pls.).

†*Milletia fischeuri* (Pomel sub *Plesiolampas*) descr. from Barcelona; LAMBERT 8 (95, pl.).

†*Milnia* Haimo et *Milnia* Pomel rejected; VALETTE 2 (296).

†*Miolampas* Pomel, defined as section of *Echinolampas*; LAMBERT 1 (33).

*Miotoxaster* discussed; FOURTAU (141).

†*Moiria guebhardi* sp. n., Burdigalian, Vence; LAMBERT 1, Nice, Ann. Soc. let. sci. 20, (53, fig.).

*Moiropsis* diagnosed; LAMBERT 7 (113)

†*Monodiadema cotteavi*; PERVINQUIÈRE.

†*Monophora darwini*; AMEGHINO (169, 255, 265, 266).

*Mortensenia oblonga*, distrib., relations to *Echinometra malhaei*, seu *lucunter*; DOEDERLEIN, 2 (233, pl.).

*Neolampas rostellata*, distrib., pedicellariae; DOEDERLEIN, 2 (241, pl.).

†*Noellingia* discussed (13): *N. boulei* sp. n. Upper Senonian, E. Madagascar (11, pl. ii); LAMBERT in BOULE & THÉVENIN, Ann. Paléont., Paris, 1.—*N. monteili*, age discussed; KRUMBECK (134).

*Noellinginae*, trib. nov. of *Echinidae*; LAMBERT in BOULE & THÉVENIN (13).

*Notechinus*, diagnosed (226), *N. magellanicus* (217), descr. (227, pls.) var. *n. hassleri* (229), var. *n. novae-ameridamiae* (229); DOEDERLEIN, 2.

†*Nucleolites* [vide etiam *Echinobrisus*],—*N. daglensis*, measured (246): *N. gibbosa* (246); *N. meulei*, measured (247): *N. waltheri* (246); GREGORY.

†*Offaster pilula*, range; SHERBORN (33).

*Oligophyma* syn. of *Anapesus*; LAMBERT 8 (67).

*Opechinus*; DOEDERLEIN, 2 (189).

†*Opissaster* discussed; LAMBERT 8 (102).—*O. almerai* sp. n., Burdigalian, Vence; LAMBERT 1, Nice, Ann. Soc. let. sci. 20, (43); descr. fr. Barcelona and Sardinia; LAMBERT 8 (100, pls.).—*O. morgani* is a *Hemiasler*; op. cit. (103).

*Orechinus* (189), diagnosed (196), *O. monolini*, descr. (196, pls.); DOEDERLEIN, 2.

†*Orthopsis* discussed; VALETTE 2 (288).—*O. cf. miliaris*; PARONA.—*O. ruppelii*, incl. *O. zumoffeni*, apical system; FOURTAU, (154, pl.).

†*Ova canalifera* Gray, vide *Schizaster bononiensis*.

*Palaeolampas*, discussed (236); DOEDERLEIN, 2: Bell, defined as section of *Echinolampas*, with type *E. hoffmanni*; LAMBERT 1 (33).—*P. chuni*, descr. (239, pl.) measured (241): *P. crassa*, descr. (236, pl.) measured (241): *P. sumatrana*, descr. (238, pl.) measured (241); DOEDERLEIN, 2.

*Palaeopneustes niasicus*, descr.; DOEDERLEIN, 2 (245, pls.).

*Paracentrotus*, diagnosed (207): *P. agulhensis*, descr. (207, pls.): *P. gaimardi* (209); DOEDERLEIN, 2.—*P. lividus*; CUENOT; DELAGE, 2: DOEDERLEIN, 2 (209); KIERNIK: polarity of ovum; GARBOWSKI: vide etiam sub *Strongylocentrotus*.

*Paraster* as subgenus of *Schizaster*; LAMBERT 8 (112).

*Parechininae*, discussed; DOEDERLEIN, 2 (202).

*Parechinus* is syn. of *Psammechinus* (q. v.); LAMBERT 8 (67).—*P. angulosus*, is *Protocentrotus*; DOEDERLEIN, 2 (202).—*P. microtuberculatus*; CUENOT; KIERNIK: vide etiam sub *Echinus* et *Psammechinus*.

†*Paronaster* gen. n. (107) with genotype *P. cupuliformis* sp. n. (108, pl. iv), Senonian of Novale, Venetia; AIRAGHI, Milano, Atti Soc. Ital. sc. nat. 45.

†*Pellastes studeri*; JACOB & TOBLER (20).

†*Pericosmus*,—*P. cf. callosus*; NELLI: *P. edwardsii*; BELLINI (641); *P. latus*; LAMBERT 8 (104); Ag., descr., distinguished from *Schizaster grateloupi*; LAMBERT 1 (43, pl.).—*P. orbigny*; BELLINI (641).—*P. pedemontanus*; op. cit. (649); NELLI.—*P. cf. spatangoides*; NELLI.

†*Perisalenia* gen. n. of *Acrosaleniidae*, for *Acrosalenia gauthieri, lowei, lamarki, lamberti, pulchella, bradfordensis, libyca* (276): *P. cotteavi* sp. n. for *Acrosalenia boloniensis* Colteau, pl. 253, ff. 3, 4 (278): *P. lamberti*, ambulacra (297); VALETTE 2, Auxerre, Bul. soc. sci. Yonne, 59.

†*Perischodomus* vide *Tornquistellus*.

*Perispatangus* vide *Koilospatangus*.

*Peroniasler* maintained; LAMBERT 8 (102).

*Petalocidaris*, discussed; DOEDERLEIN, 2 (97).

†*Phalacropedina guerangeri*, ambulacra; VALETTE 2 (302).

*Phormosoma* (293) discussed (294); SCHURIG: diagnosed, spp. discussed; (125): *P. adenicum*, diagnosed (128), descr. (134) measured (135, pls.): *P. bursarium*, diagnosed (128) measured (136); DOEDERLEIN, 2.—*P. hoplacantha*, movements; DOFLEIN (269 fig.).—*P. indicum*, diagnosed (296), described (297, fig.); SCHURIG: diagnosed (128) descr. (130, pls.) measured (136) var. (133, pls.); DOEDERLEIN, 2.—*P. placenta*, diagnosed, descr. (128) measured (135): *P. sigsbei*, diagnosed (128) measured (135); DOEDERLEIN, 2.

*Phrissoecystis humilis*, vide *Meijerea*.

*Phyllacanthus* discussed (98), name (100), diagnosed (103); DOEDERLEIN, 2.—*P. imperialis* discussed, pedicellariae figd.; op. cit. (98): †LEMOINE (253, 256, 262): †GREGORY (253).

*Phymosoma crenulare*, vide *Glyptocidaris*.

†*Piliscus* rejected; VALETTE, 2 (291).

*Plagiopneustes* criticised; LAMBERT 5.

†*Plagiopygus* discussed (234), *P. daradensis* (233, fig.); LAMBERT in MEUNIER 2.

†*Platypygus posthumus*; AMEGHINO (137, 169).

†*Plegiocidaris gourdonensis* sp. n., Barremian of Gourdon, Alpes-Marit., radioles; SAVIN & LAMBERT, Nice, Ann. Soc. let. sci. 20, (96, fig.).

*Plesiaster* as section of *Brissopsis*; LAMBERT 8 (106).

*Plesiodiademata* rejected; DOEDERLEIN, 2 (157).

†*Plesiolampas saharæ*; KRUMBECK (135).

†*Plesiosalenia* gen. n. of *Acrosaleniidæ*, for *Acrosalenia pentagona*, *berthelini*, *boloniensis*, *lycetti* (275): *P. lycetti*, juv. (297); VALETTE 2 Auxerre, Bul. soc. sci. Yonne, 59.

*Plesiospatangidae* rejected; LAMBERT 5.

†*Pliolampas* discussed; LAMBERT 8 (95).—*P. silvestrii*; NELLI.

†*Pliotoxaster* gen. n. of *Spatangidae* (140) with genotype *P. lyonsi* sp. n., Cenomanian, Isthmus of Suez; FOURTAU, Cairo, Bull. Inst., Egypt, ser. 4, 6, (145, pl.).

†*Polygoniopygus* gen. n. of *Hemicidaridae*; with genotype *Goniopygus pillei* Cott., and comprising *intricatus*, *minor*, and *heteropygus* (281): *P. intricatus* distinguished from *Goniopygus peltatus* (298); VALETTE, 2, Auxerre, Bull. soc. sci. Yonne, 59.

*Porocidaris* discussed (99), diagnosed (103): *P. gracilis*, is *Goniocidaris*, (97): *P. purpurata* (99), from Nicobars (117, pls.); DOEDERLEIN, 2.

*Pourtalesia jeffreysi*, pedicellariæ; DOEDERLEIN, 2 (269).—*P. laguncula*; DOFLEIN (253, fig., 269).—*P. miranda*; BATHER, 1.

*Prionechinus* (189, 191), discussed (187): *P. agassizi*, diagnosed (192), descr. (194, pls.): *P. chuni* sp. n., Maldives, descr. (192, pls.): *P. sagittiger*, diagnosed (192), descr. (195, pls.); DOEDERLEIN, 2, Wiss. Ergeb. D. Tiefsee-Exped. 5, Lfg. 2.

†*Proraster*, discussed; FOURTAU, (145): maintained, with *Schizaster atavus* Arnaud as genotype; LAMBERT 8 (103).

†*Prospalangus*, ambulacra discussed (48): *P. corsicus*, periplastral zones (50): *P. delphinus*, periplastral zones (49, pl.): *P. pustulosus* (Wr.) descr. from Burdigalian of Vence (51, pl.): *P. simplex* (50, pl.); LAMBERT 1.

*Protocentrotus*, gen. n. of *Echinidae*, with genotype *Echinus angulosus* Leske, descr.; DOEDERLEIN, 2, Wiss. Ergeb. D. Tiefsee-Exped. 5, Lfg. 2, (204, pls.).

*Psammechinus*, discussed, its type is *P. miliaris* not *E. variegatus* or *E. blainvillei* (66): *P. blainvillei* is *Anapesus* (q. v.) (67): †*P. delphinus* sp. n. ex Defrance MS. Burdigalian of Barcelona (71, pl.): LAMBERT 8, Paris, Mem. Soc. geol. paleont. 14.—†*P. dubius*; CHECCOIA 2 (pl. iv): synonymy, var. n. *formosa* from Helvetian, Barcelona (69, pl.): †*P. eravensis* sp. n., Tortonian, l'Hérault, = *Echinus miliaris* de Serres non Lam. (70): †*P. gauthieri* (70); LAMBERT 8, Paris, Mem. Soc. geol. paleont. 14.—†*P. iheringi* (137, 168): †*P. lahillei* (168); AMEGHINO.—†*P. michelotti*, descr.; YADASZ (329, pl.).—*P. microtuberculatus*, var. nov. *alta*; CHECCOIA, 2, Palaeontographia ital., Pisa, 12, (90, pl. iv.): vide etiam sub *Echinus* et *Parochinus*.—†*P. pusillus* Münster; PICARD (761).—†*P. serresii* Desmoulin is *Maestrichtian* (72): Desor non Desm., is a large *P. dubius* (70); LAMBERT 8.—†*P. tournoueri*; AMEGHINO (137, 168).—*P. variegatus* Ag. non Lam., syn. of *P. blainvillei* (Desm.); LAMBERT 8 (66).

*Pseudechinus*, diagnosed, *P. albocinctus*, descr. (231, pls.); DOEDERLEIN, 2.

*Pseudocentrotus depressus*, descr.; DOEDERLEIN, 1 (519).

†*Pseudocodiopsis* gen. n. of *Diadematiidae* with genotype *Codiopsis alpina*, and comprising *C. arnaudi*; VALETTE 2, Auxerre. Bul. soc. sci. Yonne, 59, (290).

†*Pseudodiadema*.—*P. griesbachi* sp. n., Senonian, Pondoland; Woods, Cape Town, Ann. S. African Mus., 4; (276, pl.).—*P. morieri*; MAIRE.—*P. variolare*; WOLLEMANN.

†*Pseudoplopodia* [sic] gen. n. of *Diplopopodiidae* for *Diplopodia* with only 3 porepairs to each major, no genotype, *P. calloniensis* (d'Orb. sub *Diadema*) first sp. mentioned (294): *P. autissiodorensis*, ambulacra (309): *P. peroni*

sp. n. for *Pseudodiadema aequalis* Pal. franc. pl. 342 non. 341 (294); VALETTE 2, Auxerre, Bul. soc. sci. Yonne., 59.

*Psilechinus* syn. of *Anapesus*; LAMBERT 8 (68).

†*Pygaulus heberti*, vide *Echinolampas*.

*Pygmaeoidaris*, diagnosed, compared with *Tiarechinus* (182): *P. prionigera*, descr. (185, pls.); DOEDERLEIN, 2.

†*Pygorhynchus* discussed; LAMBERT in MEUNIER 2 (234).—*P. pratti* Wr. is a *Tristomanthus*; LAMBERT 1 (42).—*P. tripolitanus* sp. n., Upper Cretaceous. Djebel Tar, Tripoli; KRUMBECK, Palaeontographica, Stuttgart, 53 (89, pl.).—*P. vassali* Wr. is *Milletta*; LAMBERT 1 (42): discussed; LAMBERT 8 (97).

†*Pygurus*.—*P. depressus*; PETITCLERC (68).—*P. meslei*, *P. perreti*; PERVINQUIÈRE.

†*Radiolus waechteri*; AHLBURG (46, 50, 52, 129).

*Regularia*, order of *Diadematiiformia*, with sub-ordd. *Diadematina*, *Saleniina*, *Arbaciina*, *Echinina*; DOEDERLEIN, 2 (85).

†*Rhabdocidaris*.—*R. copeoides*; PETITCLERC (69).—(*R. Leiocidaris*) *erameri*, descr.; FOURTAU (156, pl.).—*R. maxima*; WANDERER (512).

*Rhynobrissus* [sic] diagnosed; LAMBERT 8 (106).

*Rotula* discussed; LAMBERT 8 (125).

*Rotuloidea* Eth., limited; LAMBERT 8 (127).

*Saleniina*, sub-ord. of *Regularia*, with 1 Fam, *Saleniidae*; DOEDERLEIN, 2 (86).  
*Salmacis*, relations to *Temnopleurus*. views of Mortensen; KOEHLER 3 (461).

*Schizaster* discussed and defined with genotype *S. studeri*; LAMBERT 8 (110).—†*S. ameghini*; AMEGHINO (137, 169).—*S. antarcticus* sp. n., Bouvet Id., 457 M. (252, pls.), measured (256); DOEDERLEIN, 2 Wiss. Ergeb. D, Tiefsee-Exped. Bd. 5 l. fig. 2 —†*S. astensis* sp. n., Astian,

Italy = *S. scillae* Airaghi 1901, pl. vii [i.e. xxv] f. 3 (116, 122): †*S. barcinensis* sp. n., Burdigalian, Barcelona (118, pl.): †*S. bononiensis* sp. n., for Klein 1734, pl. xxvii, f. A, type of *Ova canalifera* Gray (116): †*S. (Aplospatangus) caelecolus* sp. n. Langhian, Sardinia (118); LAMBERT 8, Paris, Mem. Soc. Geol., Paleont., 14.—*S. canaliferus*; CHECCHIA, 2, (95): *pedicellariae*; DOEDERLEIN, 2 (255).—*S. capensis*, descr. (250, pls.), measured (256); op. cit.—†*S. curtus*; LAMBERT 8 (114).—†*S. deletus*; AMEGHINO (57).—†*S. desori* (113): †*S. dilatatus* sp. n., for *S. sahelienis* var. *dilatata* Pomel, Echin. Algérie, pl. x, ff. 4, 5 (123): †*S. (Aplospatangus) eurynotus*, synonymy, descr. (117); LAMBERT 8 Paris, Mem. Soc. geol. paleont. 14.—†*S. eurynotus*, discussed; LAMBERT 1 (46).—*S. fragilis*, *pedicellariae* (253, pl.), measured (256); DOEDERLEIN, 2.—*S. gibberulus?*; GREGORY (255).—†*S. gymnesiae* sp. n., Helvetian, Minorca; LAMBERT 8, Paris, Mem. Soc. Geol., Paleont. 14 (119, pl.).—*S. incertus* vide *Brissoopsis lyrifera*; CHECCHIA, 2.—*S. japonicus*, *pedicellariae*; DOEDERLEIN, 2 (254).—†*S. karveri* var. n. *lungaricus* (333, pl.): and †*S. lovisatoi* var. n. *rakosiensis* (335, pl.): Miocene, Budapest, VADASZ, Földt. Közl. Budapest, 36.—†*S. (Brisaster) major*, descr., Barcelona (122, pl.), *S. morgadesi* sp. n., Helvetian, Barcelona (119, pl.): LAMBERT 8, Paris, Mem. Soc. Geol., Paleont., 14.—†*S. patagonensis*; AMEGHINO (169).—*S. philippii*, *pedicellariae* (252, pl.) measured (256); DOEDERLEIN, 2.—†*S. rutoti* sp. n., Pliocene, Anvers = *S. scillae* Cotteau 1880, pl. vi, f. 3; LAMBERT 7, Paris, Mem. Soc. Geol. Paleont., 14 (116).—†*S. scillae*; BELLINI (641): LOJACONO (6, 19).—†*S. ventiensis* sp. n., Burdigalian, Vence; LAMBERT 1, Nice, Ann. Soc. let. sci. 20 (45, pl.).—*S. ventricosus*, *pedicellariae*; DOEDERLEIN, 2 (255).

*Schizechinus* maintained with genotype *S. serialis*, as s.g. of *Toxopneustes* (68): †*S. mortenseni* sp. n., Helvetian, Barcelona; LAMBERT 8, Paris, Mem. Soc. Geol. Paleont., 14, (73, pl.).

*Schizobrissus* diagnosed; LAMBERT 8 (106).

*Schizocidaris*, discussed; DOEDERLEIN, 2 (94).

†*Scutella*.—*S. almerai* sp. n., Tortonian, Barcelona (78, pl.): *S. bofilli* sp. n., Helvetian, Barcelona (77, pl.); LAMBERT 8, Paris, Mem. Soc. Geol., Paleont., 14.—*S. faujasi* (5): *S. leognanensis* (5, pl.): *S. lorioli* sp. n., Miocene of Bollène, Vaucluse (5, pl.). *S. michaleti* sp. n., Miocene of Carri, Bouches-du-Rhône (6): *S. paulensis*, discussed and limited (4, pl.): *S. subrotundaeformis*, discussed (6, pl.); LAMBERT 1, Nice, Ann. Soc. let. sci. 20.—*S. tarraconensis* sp. n., Burdigalian, Barcelona; LAMBERT 8, Paris, Mem. Soc. Geol., Paleont., 14 (79, pl.).—*S. vindobonensis*; NOSZYK (468).

*Scutellidae*, subdivisions; LAMBERT 8 (124).

†*Scutolampas sectio* n. of *Echinolampas*, with type *E. plagiosomus*; LAMBERT 1, Nice, Ann. Soc. let. sci. 20 (33).

*Spatangidae* genn. nn., vide *Gregoryaster*, *Koilospatangus*, *Pliotoxaster*.

*Spatangoidea*, sub-ord. of *Irregularia*, with Famn 1. *Echinoneidae*, 2. *Cassitulidae*, 3. *Ananchytidae*, 4. *Spatangidae*, 5. *Palaeostomatidae*, 6. *Pourtalesidae*; DOEDERLEIN, 2 (87).

*Spatangus* discussed and defined with genotype *S. canaliciferus* = *Schizaster* Auctt.; LAMBERT 8 (110).—†*S. botto-miccai*; BELLINI (641, 649).—*S. capensis*, descr. (261, pls.): *S. luetkeni*, measured (263); DOEDERLEIN, 2.—†*S. manzonii*; NELLI.—*S. purpureus*; CHECCHIA, 2 (95): CUENOT; HENRI; HENRI & KAYALOF; distrib. (260, pls.) pedicellaria (262), measured (263); DOEDERLEIN, 2.—*S. raschi*, measured; l.c.

*Sperosoma*, diagnosed, spp. discussed (145), comparative measurements of spp. (157); DOEDERLEIN, 2.—*S. biserialatum* (295, 296), descr. (299); SCHURIG; diagnosed, descr.; DOEDERLEIN, 2 (150, pls.).—*S. durum*, diagnosed, descr.; op. cit. (153, pls.).—*S. grimaldii*; SCHURIG (294); diagnosed, descr., also young; DOEDERLEIN, 2 (147, pls.).

*Sphaerechinus granularis*; BRIOT, 3: CERNOVODEANU & HENRI; FISCHER 1 and 2; HENRI & KAYALOF; HERBST 1 and 2; LO BIANCO (91); variations;

CHECCHIA, 2 (92, & † pl. iv).—†*S. scillae* sp. n. Pleistocene, Ficarazzi, Sicily; op. cit. (pl. iv).

†*Stegaster*; BRYDONE (14).—*S. dallagoi* referred to *Lampadocorys*; AIRAGHI (110).

*Stephanocidaris*, discussed (92) diagnosed (101): *S. bispinosa* (93): *S. bracteata* (94); DOEDERLEIN 2.

*Stereochinus* discussed; KOEHLER 5 (36); diagnosed and discussed (217): *S. antarcticus*, diagnosed (219): *S. diadema*, diagnosed (219), descr. (225, pls.): *S. horridus*, diagnosed (219), descr. (220, pls.) juv. (222), measured (226): *S. margaritaceus*, discussed (218), descr. (224, pls.), measured (226): *S. neumayeri*, diagnosed (219); DOEDERLEIN, 2.

*Stereocidaris*, discussed (96), diagnosed (102), comparative measurements of all recent spp. (116): *S. canaliculata* (96): *S. capensis* sp. n., olim *S. indica* var. *capensis*, redescri. (110, pls.): *S. indica*, distrib. (104, 109, pls.), with varr. nn. *aficana*, Somali coast (107, pls.), *carinata*, Somali coast (108, pls.), *integra*, Somali coast (105, pls.), & *sumatrana*, N. Sumatra (109, pls.): *S. ingolfiana* (110): *S. nutrix* (96): *S. tricarinata* sp. n., olim *S. indica* var. *tricarinata* (112, pls.), var. n. *terelispina*, Siberut Id. (115, pls.); DOEDERLEIN, 2. Wiss. Ergeb. D. Tiefsee-Exp., Bd. 5. Lfg. 2, Jena.

*Stereosomata*, Tribus of *Diadematina*, with Families 1. *Aspidodiadematae*, 2. *Diadematae*, 3. *Micropygidae*, 4. *Pedinidae*; DOEDERLEIN, 2 (86).

†*Stomechinus*.—*S. heberti*; PETIT-OLERC (70).—*S. perlatus*; WANDERER (512).—*S. polyporus*, *S. serratus*; MAIRE.

*Streptosomata*, Tribus of *Diadematina*, with 1 Fam. *Echinothuridae*; DOEDERLEIN, 2 (86).

*Strongylocentrotus droebachiensis*; DERJUGIN (149): †WILSON (725): var. n. *sachalinica*, coast of Sachalin; DOEDERLEIN, 1 (517).—*S. franziiscanus*; KUPELWIESER.—*S. holkkaidensis* sp. n., N. Japan and Vladivostok (518): *S. intermedius*, descr. (517); DOEDERLEIN, 1.—*S. lividus*; BRIOT, 3; DRAGO; FISCHER

1 and 2: HENRI & KAYALOF: HERBST 1 and 2; LO BIANCO (92, 93); MARCUS: PRZIBRAM: variations; CHECOHIA, 2 (92, & † pl. iv.): vide etiam sub *Paracentrotus*.—*S. pulcherrimus*, descr.; DOEDERLEIN, 1 (516).—*S. purpuratus*; KUPELWIESER: LOEB 2, 3, 5, 6.—*S. tuberculatus*; DOEDERLEIN 1 (519, 521).

*Temnechininae*, discussed, key to genera; DOEDERLEIN, 2 (188).

*Temnopleuridae*, discussed; DOEDERLEIN, 2 (187).

*Temnopleurinae*; DOEDERLEIN, 2 (188).

*Temnopleurus*, discussed (461): *T. perezii* sp. n., Red Sea (460, fig.); KOEHLER, 3, Bul. Muséum, Paris, 1905.—*T. reeresi*, descr., variations; DOEDERLEIN, 2 (200, pls.).—†*T. toreumaticus*; TOKUNAGA.

*Thylechinus quincuncialis* sp. n. (222, pl.) and *T. trigranulatus* sp. n. (223, pl.): Cenomanian, Sinai; GREGORY, Geol. Mag., London, n. ser., dec. v, 3.

†*Thylosalenia* Poinel as subgenus of *Aerosalenia*, made gen. n. with genotype *T. patella*; VALETTE 2, Auxerre, Bul. soc. sci. Yonne, 59 (276).

†*Tiarechinus*, discussed; DOEDERLEIN, 2 (183).

†*Tornquistellus* Berg (= *Leptechinus* Tornquist) is syn. of *Perischodomus*; LAMBERT 7: vide etiam sub *Leptechinus*.

†*Toxaster*.—*T. collegnoi*, referred to *Pliotoxaster* (q. v.); FOURTAU (140).—*T. complanatus*; ANDRUSOV (82); FRITEL (147, fig.).—*T. dieneri*, referred to *Mliotoxaster* (142): *T. radula*, referred to *Pliotoxaster* (q. v.) (140): "*T. radula*" Cenomanian of Beharieh oasis is a *Hemiasterid* (147); FOURTAU.

*Toxobrissus*, syn. of *Brissopsis*; LAMBERT, 8 (105).

*Toxocidaris crassispina*, *T. globulosa*, *T. nuda* (518): *T. purpurea* (520); DOEDERLEIN 1.

†*Toxopatagus italicus*; CHELUSSI (296).

*Toxopneustes* incl. *Boletia*; LAMBERT 8 (69).—†*T. pileolus*; GREGORY (253).

*Trachyaster* syn. of *Hemiaster* s.str.; LAMBERT 8 (101).

†*Trachyspatagus tuberculatus*, discussed; LAMBERT 8 (120).

*Tretocidaris*, discussed (92), diagnosed (101); DOEDERLEIN, 2.

*Trigonocidaris*; DOEDERLEIN, 2 (189).

†*Tripeustes gahardensis* sp. n. for *Hipponoë parkinsoni* var. *gahardensis* Seunes, Miocene, Bretagne; descr. from Helvetian, Barcelona; LAMBERT 8, Paris, Mem. Soc. Geol., Paleont., 14, (75, pl.).

*Tripylus* discussed; LAMBERT 8 (101).—*T. excavatus*, vide *Hemiaster cavernosus*.

†*Tristomanthus*, discussed; LAMBERT 1 (41) and 8 (95).—*T. lorioli* sp. n., Burdigalian, Vence; LAMBERT 1, Nice, Ann. Soc. let. sci. 20, (41, pl.).

†*Verbeckia* Fritsch, provisionally accepted; LAMBERT 8 (107).

*Zeugaster sectio* n. of *Brissopsis*, with type *B. lamberti* Gauth.; LAMBERT 8, Paris, Mem. Soc. Geol., Paleont., 14 (106).

#### D. ASTEROIDEA.

*Asteroida*, classification of Orders and families; FISHER 3 (990).—Perrier's Orders accepted because corresponding with habits; MACBRIDE 2 (461).

*Alexandraster inflatus* sp. n. ca. 140 m. Monterey B., Calif.; FISHER 2, Zool. Anz., Leipzig, 30, (300).

*Anasterias tenera* sp. n., Antarctic; KOEHLER 4, Bul. Muséum, Paris, 1905, (464): descr., also young; KOEHLER 5 (12, pls.).

*Anseropoda*, name discussed; *A. insignis* sp. n., 143 fm., Hawaiian Is.; FISHER, 3, Washington, Bull. U. S. Fish Comm., 23, (1088, pl.).

*Anseropodidae* fam. n. of *Spinulosa*, = *Palmipedinae* (1087), transferred to *Cryptozonia* (990); FISHER, 3 Washington, Bull. U. S. Fish Comm., 23.

*Antheniaster epixanthus* sp. n., 178 fm., Hawaiian Is.; FISHER, 3 Washington, Bull. U. S. Fish Comm., 23 (1067, pls.).



*Archaster typicus*; FISHER, 3 (1045).  
*Asteracanthion helianthus*; BOUVIER,  
 1.—*A. rubens*; STIEREN (271).

*Asterias*,—†*A. annulosa*; SCHOEN-  
 DORF 2 (255).—*A. forbesii*; KING;  
 MATHEWS 1 and 2; TENNETT & HOGUE.  
 —*A. glacialis*; DRAGO.—*A. lincki*;  
 DERJUGIN (94, 149).—*A. papposa* Lin-  
 naeus Syst. Nat. xi; BELL.—†*A. pustula-  
 ta*, (257), see also *Sphaerites*; SCHOEN-  
 DORF 2.—*A. tenuispina*, genotype of  
*Stolasterias*; FISHER, 1.—*A. rubens*;  
 BOHN; JOHNSTONE (239, 241); Japan;  
 DOFLEIN: anat.; MAOBRIDE 2 (432):  
 nerve-system, &c.; MEYER.—*A. rubens*  
*violacea*; DERJUGIN (149).—†*A. scu-  
 tata* (252, 254): †*A. stellifera*, probably  
 marginals of *Sphaerites scutatus* (252,  
 255, 257, 265, fig.): †*A. tabulata* (251,  
 255); SCHOEN DORF 2.

*Asterinidae*, transferred to *Crypto-  
 zonia*; FISHER, 3 (990).

*Asterodiscus tuberculatus* sp. n., 59  
 fm., Hawaiian Is.; FISHER, 3 Washing-  
 ton, Bull. U. S. Fish Comm., 23 (1075,  
 pls.).

*Asthenactis* gen. n. of *Myxasteridae*  
 (1096) with genotypé *A. papyraceus*  
 sp. n. 762 fm., Hawaiian Is.; op. cit.  
 (1097, pl.).

*Astroceramus* gen. n. of *Goniasteridae*,  
 with genotype *A. callimorphus* sp. n.,  
 127 fm., Hawaiian Is.; op. cit. (1056,  
 pls.).

*Astrogonium* M. & T., name dis-  
 carded; FISHER, 3 (1036).—*A. astrolo-  
 gorum*, madreporite; SCHOEN DORF (292,  
 fig.).

*Astropecten bonnieri* sp. n., Red Sea;  
 KOEHLER 3, Bul. Muséum Paris, 1905,  
 (462, fig.).—*A. californicus* sp. n. under  
 140 m., Monterey B., Calif.; FISHER, 2,  
 Zool. Anz. Leipzig, 30 (299).—*A. callis-  
 tus* sp. n., 143 fm., (1012, pls.): *A.  
 ctenophorus* sp. n., 130 fm. (1006, pls.):  
 Hawaiian Is.; FISHER, 3 Washington,  
 Bull. U. S. Fish Comm., 23.—*A. erina-  
 ceus*; FISHER, 4 (118).—*A. hemprichi*;  
 HERDMAN 3 (447).—*A. monacanthus*,  
 size, paxillae; KOEHLER 3 (459).—*A.  
 ornatisissimus* sp. n., 150 fm., California;  
 FISHER 4 Washington, Proc. Acad. Sci.,  
 8 (119).—*A. polyacanthus*, descr. (1004,  
 pls.): *A. productus* sp. n., 122 fm. (1010,

pls.): *A. pusillulus* sp. n., 241 fm.  
 (1008, pls.): Hawaiian Is.; FISHER, 3  
 Washington, Bull. U. S. Fish. Comm.,  
 23.—*A. velitaris*, descr.; op. cit. (1005,  
 pls.).—†*A. wilckensis*; AMEGHINO (57).

*Astropectinidae*, gen. nn. vide *Cteno-  
 phoraster*, *Tritonaster*, *Psilasteropsis*,  
*Patagiaster*.

*Benthaster critimus* sp. n., 222 fm.,  
 Hawaiian Is.; FISHER, 3 Washington,  
 Bull. U. S. Fish Comm., 23 (1101, pl.).

*Brisinga alberti* sp. n., 451 fm.,  
 (1111, pls.): *B. evermanni* sp. n., 450  
 fm., (1113, pls.): *B. fragilis* sp. n., 222  
 fm., (1115, pls.): *B. panopla* sp. n., 451  
 fm., (1109, pls.): Hawaiian Is.; FISHER,  
 3 Washington, Bull. U. S. Fish Comm.,  
 23.

*Calliaster pedicellaris* sp. n., 130 fm.,  
 Hawaiian Is.; op. cit. (1061, pls.).

*Calliderma spectabilis* sp. n., 148 fm.,  
 Hawaiian Is.; op. cit. (1058, pls.).

*Calveria hystrix*; BATHER, 1.

*Calveria*, rejected; BATHER, 1.

*Ceramaster*, vide sub *Tosia*.

*Cheiraster horridus* sp. n., 143 fm.  
 (1042, pls.): *C. inops* sp. n., 256 fm.  
 (1043, pls.): *C. snyderi* sp. n., 418 fm.,  
 (1040, pls.): Hawaiian Is.; FISHER, 3  
 Washington, Bull. U. S. Fish Comm.,  
 23.

*Coseinasterias* Verrill, reinstated with  
 s. gg. *Stolasterias*, *Marthasterias*, *Disto-  
 lasterias*: FISHER 1 and 3 (1104).—  
*C. (Distolasterias) euplecta* sp. n., 136  
 fm., Hawaiian Is.; FISHER, 3 Washington,  
 Bull. U. S. Fish Comm., 23 (1105, pls.).

*Cribrella*, syn. of *Linckia*; FISHER, 3  
 (1090) and 4 (127).—*C. oculata*;  
 BARTHELS.—*C. sanguinolenta*; DERJU-  
 GIN (149).

*Crossaster alternatus* sp. n., 414 fm.,  
 California, also young (131).—*C. borealis*  
 sp. n., 230 fm., Kadiak Id. (134); FISHER,  
 4 Washington, Proc. Acad. Sci., 8.—  
*C. papposus*; DERJUGIN (149).

*Cryaster* gen. n., of *Cryasteridae*, with  
 genotype *C. antarcticus* sp. n., Antarctic;  
 KOEHLER 4, Bul. muséum, Paris, 1905  
 (469); descr.; KOEHLER 5 (24, pls.).

"Cryasteridées nov. fam." of *Cryptozonia* allied to *Echinasteridae*; loc. cit.

*Ctenodiscus crispatus*, *brevimana*; DERJUGIN (149).

*Ctenophoraster* gen. n. of *Astropectinidae* (1014) with genotype *C. hawaiiensis* sp. n., 57 fm., Hawaiian Is. (1015, pls.); FISHER, 3 Washington, Bull. U. S. Fish Comm., 23.

*Culecita discoidea*; SCHOENDORF 2 (300, fig).

*Diplasterias papillosa* sp. n., Antarctic; KOEHLER 4, Bul. muséum, Paris, 1905 (466): descr., young; KOEHLER 5 (21, pls.).—*D. turqueti* sp. n., Antarctic; KOEHLER 4, Bul. muséum, Paris, 1905, (465): descr.; KOEHLER 5 (19, pls.).

*Dipsacaster nesiotus* sp. n. 299 fm., Hawaiian Is.; FISHER, 3 Washington, Bull. U. S. Fish Comm., 23 (1026, pls.).

*Distolasterias*, is s.g. of *Coscinasterias*; FISHER 1 and 3 (1105).

*Echinaster* sp. juv. et aff. *sladeni*; FISHER, 3 Washington, Bull. U. S. Comm., 23 (1092).—*E. callosus*, *E. sepositus*; BARTHELS.

*Evoplosoma* gen. n. of *Goniasteridae* with genotype *E. foreipifera* sp. n. 682 fm., Hawaiian Is.; FISHER, 3 Washington, Bull. U. S. Fish Comm., 23 (1065, pls.).

*Gilbertaster* gen. n. of *Goniasteridae* with genotype *G. anacanthus* sp. n. 382 fm., Hawaii; op. cit. (1063, pl.).

*Goniasteridae*, gen. nn. vide *Astrocaramus*, *Gilbertaster*, *Evoplosoma*, *Goniodiscides*.

*Goniodiscides* gen. n. of *Goniasteridae*, = *Goniodiscus*, with genotype *G. sebae*; FISHER, 3 Washington, Bull. U. S. Fish Comm., 23 (1070, pl.).

*Granaster biseriatus*, sp. n., Antarctic; KOEHLER, 4, Bul. Muséum, Paris, 1905 (466): descr.; KOEHLER 5 (11, pls.).

†*Helianthaster* sp. nondesc., Upper Devonian, N. Y.; CLARKE, 2 (37, pl.).

*Heliaster multiradiata*, probably not Hawaiian; FISHER, 3 (1104).

*Henricia*, name discussed (1089); FISHER, 3 and FISHER, 4 (127).—*H. aspera* sp. n., 48 fm., Oregon; FISHER 4, Washington, Proc. Acad. Sci., 8 (127).—*H. pauperrima* sp. n., Hawaiian Is.; FISHER, 3 Washington, Bull. U. S. Fish Comm., 23 (1091, pls.).—*H. polyacantha* sp. n., 359 fm., California; FISHER 4 Washington, Proc. Acad. Sci., 8 (129).—*H. robusta* sp. n., 195 fm., Hawaiian Is.; FISHER, 3 Washington, Bull. U. S. Fish Comm., 23 (1090, pls.).

*Hydrasterias verrilli* sp. n., 284 fm., Hawaiian Is.; op. cit. (1106).

*Hymenaster pentagonalis* sp. n., 304 fm., Hawaiian Is.; op. cit. (1099, pls.).

*Korethraster hispidus*; BATHER, 1.

*Labidiaster radiosus*; KOEHLER 4: large; KOEHLER 5 (24).

*Lahillea*; BATHER, 2: vide *Ortmania*.

*Lahillia*; BATHER, 2.

*Leiaster callipeplus* sp. n., 33 fm., Hawaiian Is.; FISHER, 3, Washington, Bull. U. S. Fish Comm., 23 (1083, pls.).

*Leptoptychaster*, rejected for original spelling *Leptychaster* (q. v.); FISHER, 4 (112).

*Leptychaster anomalus* sp. n., 58 fm., Bering Sea (115); *L. pacificus* sp. n., 238 fm., Vancouver Id, compared with *L. arcticus* (112); FISHER, 4 Washington, Proc. Acad. Sci., 8.

*Linckia*, name discussed (1090): *L. diplax* descr. (1015, pls.): *L. multifora* (1085); FISHER, 3.

*Linckiiidae*, transferred to *Phanerozonia*; FISHER, 3 (990).

*Luidia asthenosoma* sp. n., 47 fm., California; FISHER, 4 Washington Proc. Acad. Sci. 8 (124).—*L. ciliaris*; LO BIANCO (94).—*Luidia*, aff. *forficifer*, juv.; FISHER, 3 (1036).—*Luidia foliolata*; FISHER 4 (121).—*L. hystrix*, sp. n., 28 fm., Hawaiian Is.; FISHER, 3 Washington Bull. U. S. Fish Comm. 23 (1032, pls.).—*L. ludwigi* sp. n., 29 fm., California; FISHER 4 Washington, Proc. Acad. Sci., 8 (122).—*L. maculata*; HERDMAN 2 (121) and 3 (447).—*L. magnifica* sp. n., 73 fm., Hawaiian Is.; FISHER, 3, Washington, Bull. U. S. Fish Comm., 23 (1033, pls.).—*L. sarsi*, larva; DELAP 2 (15).

*Marthasterias*, is s.g. of *Coscinaasterias*; FISHER, 1 and 3 (1105).

*Mediaster ornatus* sp. n., 399 fm., Hawaiian Is.; FISHER, 3 Washington, Bull. U. S. Fish Comm., 23 (1046, pls.).

*Metopaster*, distinguished from *Gonio-discides*; FISHER, 3 (1070).

*Mithrodia* sp. (1096, pls.): *M. bradleyi*, descr. (1094, pls.); FISHER, 3.

*Myxasteridae*, gen. n. vido *Asthenacalis*.

*Nereidaster* discussed (1018): *N. boversi* sp. n., 324 fm., Hawaiian Is. (1049, pls.); FISHER, 3 Washington, Bull. U. S. Fish Comm., 23.

*Nymphaster florifer*, probably *Mediaster*; op. cit. (1048).

*Odinia pacifica* sp. n., 319 fm. Hawaiian Is.; op. cit. (1108, pls.).

*Odontaster tenuis* sp. n., Antarctic; KOEHLER 4, Bul. Muséum, Paris, 1905, (468): *O. tenuis* descr.; KOEHLER 5 (8, pl.).—*O. validus*, sp. n., Antarctic; KOEHLER 4, Bul. Muséum, Paris, 1905 (467): descr.; KOEHLER 5 (6, pl.).

*Ophidiaster lorioti* sp. n., reefs, (1077, pls.): *O. rhabdotus* sp. n., 233 fm., (1082, pls.): *O. sclerodermus* sp. n., 99 fm., (1081, pls.): *O. squameus* sp. n., 130 fm., (1079, pls.): *O. tenellus* sp. n., 130 fm., (1082, pl.): *O. triseriatus* sp. n., 69 fm. (1080, pls.): Hawaiian Is.; FISHER, 3 Washington, Bull. U. S. Fish Comm., 23.

*Ortmannia* nom. nov. pro *Lahillia* [sic, olim *Lahillea*] Lor. non Cossm. [preocc. Rathbun, 1901]; LORIOT, Rev. paleozool. Paris, 10, (78): BATHER, 2 (131).

*Palmipes* Ag., syn. of *Anseropoda*; FISHER, 3 (1088).

*Parastropecten inermis*, perhaps a *Leptychaster*; FISHER, 4 (117).

*Patagiaster* gen. n. of *Astropectinidae* with genotype *P. mullingi*, sp. n., 202 fm., Hawaiian Is.; FISHER, 3 Washington, Bull. U. S. Fish Comm., 23 (1029, pls.).

*Patiria pulla* sp. n., Mauritania coast (60, pl.): *P. rosea* sp. n., Mauritania coast (58, pl.): KOEHLER & VANEY, 3, Bordeaux, Actes Soc. linn., 60.

(N-9720 m)

*Pentaceros*,—†*P. dilatatus* sp. n. in Chalk flint, Fontaine St. Simon (Eure-et-Loir); MEUNIER 1 Naturaliste, Paris, sér. 2, 20 (117-118, fig.).—*P. hawaiiensis* sp. n., 43 fm., Hawaiian Is.; FISHER, 3 Washington, Bull. U. S. Fish Comm., 23 (1072, pls.).—*P. lincki*; HERDMAN, 2 (121, 125, fig.) and 3 (447, pl.).—*P. nodosus*; HERDMAN, 2 (121).

*Pentagonaster ammophilus* sp. n., 257 fm., Hawaiian Is.; FISHER, 3 Washington, Bull. U. S. Fish Comm., 23 (1051, pls.).

*Plinthaster*, vido sub *Tosia*.

*Polyasterias* is syn. of *Stolasterias*; FISHER 1 and 3 (1105).

*Pontaster* discussed; FISHER, 3 (1040).

*Pontasterinae*, transferred to *Benthoplectinidae*; FISHER, 3 (990).

*Porania antarctica*; KOEHLER 4: incl. all Antarctic spp.; KOEHLER 5 (10).

*Pseudarchaster jordani* sp. n., 375 fm. (1038, pls.). *P. myobrachus* sp. n., 427 fm. (1037, pls.): Hawaiian Is.; FISHER, 3 Washington, Bull. U. S. Fish Comm., 23.

*Psilaster attenuatus* sp. n., 290 fm., Hawaiian Is.; op. cit. (1019, pls.).

*Psilasteropsis* gen. n. of *Astropectinidae* with genotype *P. ciugulata* sp. n., 418 fm. Hawaiian Is.; FISHER, 3 Washington, Bull. U. S. Fish Comm., 23 (1023, pls.).

*Pteraster militaris*, *P. pulvillus*; DERJUGIN (149).—*P. reticulatus* sp. n., 284 fm., Hawaiian Is.; FISHER, 3 Washington, Bull. U. S. Fish Comm., 23 (1098, pls.).

*Pycnopodiidae* Stimpson, restr. to *Pycnopodia*, *Rathbunaster* gen. n., and possibly *Anasterias*; FISHER, 4 (136).

*Rathbunaster* gen. n. of *Pycnopodiidae* with genotype *R. californicus* sp. n. 339 fm., California; FISHER, 4 Washington, Proc. Acad. Sci. 8 (137).

*Rhegaster tumidus*; DERJUGIN (97, 149).

*Ripaster* gen. n. of *Archasteridae*, with genotype *R. charcoti* sp. n. Antarctic; KOEHLER 4 Bull. Muséum, Paris,

1905 (467): diagnosed and descr. fr. Booth-Wandel Id.; KOEHLER 5 (4, pl.).

*Solaster endeca*; DERJUGIN (149): Japan; DOFLEIN.—*S. papposus*; JOHNSTONE (238): Japan; DOFLEIN: synn. on p. 89 Bell's Cat. Brit. Echinod. corrected; BELL.

†*Sphaeraster* (255, 303); SCHOENDORF 2: discussed: *S. punctatus*, structure (figs.); SCHOENDORF 1.

†*Sphaerasteridae*, fam. nov. of *Phanerozonia*; SCHOENDORF 1, Wiesbaden, Jahrb. Ver. Natk., 59, (256) and 2 (303).

†*Sphaerites*, name (252), structure, based on various spp. (271-297), habits (209), diagnosis (302): *S. annulosus*, descr. (264, fig.): *S. digitatus* (253), dorsal plates of a Pentacerote (270): *S. fossulatus* (253), var. of *S. tabulatus* (264): *S. juvenis* (252) descr. (260, fig., pl., 279, 296): *S. punctatus* (253), descr. (257, pl.) structure (271 et sq., figs.): *S. pustulatus* (253), descr. (264, fig., pl., 282, 294): *S. regularis* (253): *S. scutatus* (252), descr. (266, figs., pl., 281, 285, 288, 294): *S. tabulatus* (252), descr. (263, figs., 280); SCHOENDORF 2.

*Stegnaster inflatus*; SCHOENDORF 2 (256, 299, fig.).

*Stellosphaera* gen. n. of *Forcipulata* with genotype *S. mirabilis* sp. n. larva only, 2000-3000 m., Azores; KOEHLER & VANEY, 1. Bull. Mus. Monaco, No. 64, (figs.) and 2.

*Sichaster albulus*; DERJUGIN (105).

*Stolasterias*, is s.g. of *Coscinasterias* (q.v.); FISHER, 1.

*Tosia* (*Ceramaster*) *micropelta* sp. n., (1054, pls.): *T. (Plinthaster) ceramoidea* sp. n., 277 fm. (1052, pls.): Hawaiian Is.; FISHER, 3 Washington, Bull. U. S. Fish Comm. 23.

*Tritonaster* gen. n. of *Astropectinidae* with genotype *T. craspedotus* sp. n., 294 fm., Honolulu; op. cit. (1017, pls.).

*Valvaster striatus*, descr.; op. cit. (1093, pl.).

*Zoroaster spinulosus* sp. n., 328 fm., Hawaiian Is.; op. cit. (1102, pls.).

## E. OPHIUROIDEA.

Bell's orders accepted, because of physiological importance; MACBRIDE 2 (494).

*Amphiura squamata*; HEROUARD 4: †SCALIA.

†*Aspidura* cf. *squamosa*; AHLBURG (55).

*Gorgonocephalus agassizi*, *G. eucnemis*; DERJUGIN (150).—*G. sagaminus*; DOFLEIN (204, fig.).

*Ophiacantha bidentata*; DERJUGIN (149).

†*Ophioaster* gen. n. with genotype *Ophiosten* (?) *bellefourchensis* sp. n., Jurassic, Black Hills, Wyo.; WHITFIELD & HOVEY. New York, N.Y., Bull. Amer. Mus. Nat. Hist., 22 (391, pl.).

*Ophioglypha innoxia* sp. n., Antarctic; KOEHLER 5, Exped. antarct. franç. Documents scient. Paris, (27, pl.).—*O. nodosa*; STIEREN (271).

*Ophionotus victoriac*; KOEHLER 4 (470), and 5 (29).

*Ophiopholis aculeata*; DERJUGIN (90, 149).

*Ophiopsammium rugosum*, colour and other notes; KOEHLER 3 (459).

*Ophioscolex glacialis*; DERJUGIN (97, 150).

*Ophiothela danae*; KOEHLER 3 (459).

*Ophiothrix exigua*, colour; KOEHLER 3 (458).—*O. fragilis*; MACBRIDE 1: anat.; MACBRIDE 2 (478).

*Ophiura albida*; JOHNSTONE (244).—*O. sarsi*; DERJUGIN (149).

## F. CRINOIDEA.

Historical discussion of Classification; HAMANN (1554).—Bather's division into *Monocyclus* & *Dicyclus*, and Jaekel's division into *Cladoerinoidea* & *Pentacrinoides*, criticised; Wachsmuth & Springers Orders, *Inadumata*, *Articulata*, *Camerata* accepted because physiological; MACBRIDE 2 (594).

†*Actinoerinus*? sp. indet.; WELLER (439, pl.).—*A. polydactylus*; BATHIER in MATLEY (296).

- †*Actinometra formae*; BELLINI (641).
- †*Agarioecrinus* sp. indet.; WELLER (140, pl.).
- †*Amphicrinus* gen. n. of *Sagenocrinidae*; SPRINGER, J. Geol. Chicago, 14 (518).
- †*Anisocrinus* (475, 479): *A. angelini*, (480, pl.): *A. greeni* (480, pl.): *A. interradiatus*, (479, pl.): *A. oswegoensis* (480, pl.); SPRINGER.
- Antedon anceps* Carp. in Ceylon Pearl Fishery Rep., corrected to *A. bengalensis* Hartlaub; HERDMAN, 3 (449).—†*A. angle-sensis*; BELLINI (641).—*A. bifida*, anat.; MACBRIDE, 2 (581): ovary and oocyte; CHUBB, 2.—†*A. depereti*; BELLINI (641).—*A. eschrichti*; DERJUGIN (150).—†*A. fontanesi*; BELLINI (611).—†*A. iheringi*; AMEGHINO (172).—†*A. michelottii* (641), *nicolasi* (650), *oblitus* (641), *paronai* (641), *pellati* (641); BELLINI.—*A. phalangium*; LO BIANCO (94) *A. rosacea*; op. cit.: PRZIBRAM: pentacrinoid compared with early Flexibilia; SPRINGER (503, pl.).—†*A. stellatus* and *taurinen-sis*; BELLINI (641).
- †*Ascoecrinus* near Bristol; BATHER in HIND (173).
- †*Aspidocrinus scutelliformis*; GRABAU (155).
- †*Asteroecrinus* (?) *münsteri*; LAMANSKY (79, 171).
- †*Baryecrinus* discussed; BATHER, 3 (104).
- †*Batoecrinus*.—*B. calyculus* (1247, pl. xiv): *B. crassitestus* (1249, pl. xv): *B. davisii* (1248, pl. xv): *B. davisii lanes-villensis*; (1249, pl. xv): *B. davisii sculptus* (1250, pl. xv): *B. icosidactylus* (1243, pl. xii): *B. irregularis* (1244, pl. xii): *B. magnirostris* (1244, pl. xv): *B. sacculus* (1246, pl. xii): *B. salemensis* (1245, pl. xii); BEEDE.
- †*Botryoecrinus*, discussed (104), *americus* (103), *crassus* (101), *cucurbitaceus* (94), *decadactylus* (95), *longibrachiatus* (97), *nucleus* (98) *pinnulatus* (96) *polyxo* (99), *quinquelobus* (96), *ramosus* (95), *ramosissimus* (94), all re-diagnosed; BATHER, 3.
- †*Caleidoecrinus*; SPRINGER (485, 519).
- †*Calpiocrinus* (480, 517), *C. fimbriatus* (483, pl.), *heterodactylus*, *oratus*, (pl.); SPRINGER.
- †*Camaroecrinus asiaticus* sp. n., Nyaungbaw beds, Yemeyé, Upper Burma; REED, Palaeont. Indica, Calcutta, n. ser., 2 (88, pl.).—†*C. quadri-lobatus* sp. n. Upper Ordovician Nyaung-baw beds, Burma, based on *Echinosphacrites kingi* [same as preceding]; HOLLAND. Rec. Geol. Surv. India, 33 (75).—†*C. stellatus*; GRABAU (319).
- †*Ceriocrinus*.—*C. hemisphaericus* (387): †*C. missouriensis* (381, 383); BEEDE & ROGERS.
- †*Cheiroecrinus* sp. roots; LAMANSKY (80, 172, 178).
- †*Choloecrinus* gen. n. of *Sagenocrinidae* with genotype *Lithoecr. oboeus*; SPRINGER, J. Geol. Chicago, 14, (515, 517).
- †*Cleioecrinus*; SPRINGER (519).
- †*Clidochirus* (475, 479, pl.): *C. pyrnum* (479, pl.); SPRINGER.
- †*Conocrinus sequenzai* (641, 650), *C. michelottii* (650); BELLINI.
- †*Cosmocrinus* discussed; *C. dilatatus*; *C. holzapfeli*, genolectotype; *C. ornatis-simus*; BATHER, 3 (104).
- †*Crotaloecrinus rugosus*; SIEMIRADZKI (177, 188, 195, 211, 278, pl. xxi).
- †*Cupressoecrinus* sp.; SIEMIRADZKI (278, pl. xxi).
- †*Cyathoecrinus*.—*C.* sp.; SIEMIRADZKI (177, 190, 211, 277, pl. xxi).—*C. ? exilis*; LAMANSKY (80, 172).—*C. cf. goliathus*, columnals; GORTANI, 1 (14).—*C. ornatis-simus*, vide sub *Seytaloecr. et Cosmocr.*
- †*Dadoecrinus gracilis* (43, 44, 48, 52): *D. kunischi* (55); AHLBURG.
- †*Dichoecrinus*.—*D. blatchleyi* sp. n. Salem Lst., Warsaw group, Paynters Hill, Ind. (1259, pl. xvii): *D. oblongus* (1260, pl. xiii): *D. striatus*, Salem Lst., perhaps young (1258, pl. xiii); BEEDE, Indiana, Rep. Dept. Geol. 30.
- †*Dizygoecrinus*.—*D. ?* sp. (1254, pl. xvii): *D. decoris* [sic] (1253, pls. xii, xvi): *D. euconus* (1252, pl. xii, xvi): *D. unionensis* (1253, pl. xvi): *D. whitei*, young, (1251, pl. xii); BEEDE.

†*Enerinus*, — *E.* cf. *gramulosus*; AHLBURG (83, pl. iii).—*E. liliiformis*; FRITEL (106, fig.): reconstruction; FRAAS (18, fig.).—*E.* cf. *liliiformis* (48, 50, 52, 55, 83): *E. silesiacus* (51); AHLBURG.

†*Entrochus asteriscus*; SIEMIRADZKI (188, 199, 211, 277, pl. xxi).—†*E. dubius*; AHLBURG (48, 50, 52, 55, 83).

†*Erisocrinus typus*; BEEDE & ROGERS (381, 382, 383).

†*Euryocrinus*; SPRINGER (484).

†*Eutaxocrinus* gen. n. of *Taxocrinidae*, with genotype *Taxocr. affinis*; SPRINGER, J. Geol. Chicago, 14, (493, 519).

*Flexibilia* full discussion; famm. *Ichthyo-*, *Sageuo-*, *Taxo-crinidae* (q.v.); SPRINGER.

†*Forbesiocrinus*,—*F. agassizi* (489): *F. multibrachiatus* (489): *F. parvus* (500): *F. washingtonensis* (pl.): *F. whitfieldi* (500); SPRINGER.

*Gephyrocrinus grimaldii*; ALBERT.

†*Glyptocrinus*,—*G.* sp.; SIEMIRADZKI (211, 277, pl. xix).—*G. basalis*; EVANS, (634).

†*Gnorimocrinus*,—*G. excavatus* is a *Dactylocr.* (515): *G. expansus* (492, pl.): *G. loveni* (492), type of *Meristocrinus* (q.v.) (515): *G. tubuliferus* (492); SPRINGER.

†*Haplocrinus* (?) *monile*; LAMANSKY (79, 171).

†*Homalocrinus* (475, 482, 517): *H. dudleyensis* sp. n. Wenlock Limest., Dudley (482, pl.): *H. parabasalis* (482, pl.); SPRINGER, J. Geol. Chicago, 14.

†*Homocrinus scoparius*; GRABAU (319, 320).

†*Hydreionocrinus discus*; BEEDE & ROGERS (381).

†*Hypsoocrinus* gen. n. of *Pisocrinidae* with genotype *H. fieldi* sp. n., Devonian, Hamilton shales, Bethany, N.Y.; SPRINGER & SLOCUM, Chicago, Ill., Pub. Field Columb. Mus., Geol. Ser., 2, (pl.).

†*Ichthyocrinidae*, defined, include *Chidochirus*, *Ichthyocr.*, *Lecanocr.* (syn.

*Cyrtidoer.*), *Mespiloer.*, and *Metichthyocr.* gen. n.; SPRINGER, J. Geol. Chicago, 14, (516).

†*Ichthyocrinus*, radianal, (475): *I. burlingtonensis* (477, pl.); SPRINGER.—*I. clarkensis*; BEEDE (1257, pl. xiv).—*I. couoideus* (476): *I. corbis* (477): *I. gotlandicus* (pl.): *I. greenei* (478, 490): *I. intermedius* (pl.): *I. laevis* (476, 477, pl.): *I. pyriformis* (477, pl.): *I. simplex* (476): *I. subangularis* (476, 477, pl.): *I. tiaraeformis* (477); SPRINGER.

†*Lecanocrinus* (475, 491): *L. greenei* is *Anisocrinus* (480, pl.): *L. macropetalus* (501, pl.): *L. oswegoensis* is *Anisocrinus* (480, pl.): *L. roemeri* (491); SPRINGER.

†*Leioocrinus* syn. of *Homalocrinus*; SPRINGER (482).

†*Lithocrinus obesus*, type of *Choloc.* (q.v.): *L. robustus*, syn. of *L. divaricatus*; SPRINGER (515).

†*Marsupites testudinarius*; TREACHER & WHITE; WHITE & TREACHER.

†*Meloocrinus*,—*M. clarkei*, now first figd.; CLARKE, 1 (346, pl. D, E).—*M. pachydaetylus*; GRABAU (135, fig.).

†*Meristocrinus* gen. n. of *Taxocrinidae*, with genotype *Taxocr. loveni*; SPRINGER, J. Geol. Chicago, 14 (515, 519).

†*Mespilocrinus* (517), *M. forbesianus* (pl.); SPRINGER.

*Metacrinus* r[ot]undus; †NICHOLS (49): length of stem, movements; DOFLEIN (252 fig., 268).

†*Metichthyocrinus* gen. n. of *Ichthyocrinidae* for Carboniferous *Ichthyocrini* (479, 517), *M. burlingtonensis* (pl.); SPRINGER, J. Geol. Chicago, 14.

†*Millericrinus horridus*; ANDRUSOV (131, 134).

†*Nipteroocrinus* (519), *N. wachsmuthi* (pl.); SPRINGER.

†*Oligoocrinus* (519), *O. asteriaeformis* (pl.); SPRINGER.

†*Ouychoocrinus*,—*O. exsculptus*, tegmen (474): *O. ulrichi*, tegmen (469), I Br (491); SPRINGER (pl.).

†*Parichthyoerinus* (519), *P. nobilis* (pl.); SPRINGER.

*Pentacrinus* [incl. *Isoer.*], — †*P. agassizi*; BRYDONE (15, 129).—†*P. (?) antiquus*; LAMANSKY (80, 172).—†*P. astericus* [sic], descr.; WHITFIELD & HOVEY (389, pl.).—†*P. bronni*; BRYDONE (15, 129).—*P. decorus*; REICHENSFELDER. —†*P. gastaldii*; BELLINI (641, 650).—†*P. jurensis*; †*P. mieryensis*; LISSAJOUS (10).—†*P. moniliferus*; RENZ.—†*P. neocomiensis*; HARBORT.—†*P. oceani* (10); †*P. rollieri* (11); LISSAJOUS.—†*P. scalaris*; RENZ.—†*P. tuberculatus*; GERBER (67); HAUG & KILIAN (13); RENZ.

†*Phacites gotlandicus*; SIEMIRADZKI (195, 211, 277, pl. xxi).

†*Plialoerinus*, — *P. stephensi*; DUN (107).—*P. stillativus*; BEEDE & ROGERS (383).

†*Phimoerinus jouberti*; SPRINGER & SLOCUM.

†*Phylloerinus* cf. *oosteri*; ZOEPRITZ (199).

†*Pisocrinidae*, gen. n. vide *Hypsoerinus*.

†*Pisocrinus globularis*; MACNAIR (375).

†*Platycrinus*, — *P. bonoensis* (1255, pl. xiii): *P. boovillensis* (1256, pl. xiv); BEEDE.—*P. cf. expansus* juv.: BATHER in MATLEY (296).

†*Poteroerinus*, — *P. coryphaeus*; BEEDE (p. 1256, pl. xiii).—*P. crassus*; MACNAIR (373, 375).—*P. cf. sigillatus*; GORTANI, 1 (15).

†*Protaxoerinus* gen. n. of *Taxoerimidae*, with genotype *Taxoer. ovalis*; SPRINGER, J. Geol. Chicago, 14, (519).

†*Pycnosaccus*; SPRINGER (475, 484, 491).

†*Rhenoerinus*, gen. n. of *Dendrocrinoidea*, with genotype *R. ramosissimus*, Lower Devon., Hundrückschiefer, Gmünden; JAEKEL in SCHMIDT (544). *R. minae* sp. n., Mid. Devon., Trochitenschiefer, near Letmathe, Westphalia (546, fig., pl.): *R. winterfeldi* sp. n., Mid. Devon., Tonschiefer, Breun (544, fig.); SCHMIDT, Berlin, Zs. D. geol. Ges., 57.

†*Rhipidoerinus perloricatus* sp. n. Mid. Devon., near Letmathe, Westphalia; op. cit. (543, pl.).

†*Rhopalocrinus*; SPRINGER (484, 519).

†*Sagenoeriniidae* fam. n. of *Flexibilia*, for *Anisoer.*, *Homaloer.*, *Calpioer.*, *Pycnosaccus*, *Cholocr.* gen. n., *Sagenoer.*, *Temnoer.*, *Dactyloer.*, *Amphioer.* gen. n., *Euryoer.*, *Lithoer.*, *Forbesioer.*, *Wachsmuthioer.*, *Nipteroer.*; SPRINGER, J. Geol. Chicago 14, (517).

†*Sagenoerinus* (498): *S. expansus* (pl.); SPRINGER.

†*Seyphoerinus* sp., Nyaungbaw beds, Yemeyé, Upper Burma; REED (86, pl. viii).

†*Scytaloerinus ornatiissimus* (Hall), alleged typo-specimen figd.; CLARKE, 1. (348, pl. F).

†*Synbathoerinus swallowi*; BEEDE (1262, pl. xiii, xiv).

†*Talaroerinus* cf. *trijugus*, young. (1260, pl. xiii): *T. simplex* (1261, pl. xiii); BEEDE.

†*Taxoeriniidae*, defined, include *Protaxoer.* gen. n., *Gnorimoer.*, *Meristoer.* gen. n., *Eutaxoer.* gen. n., *Taxoer.*, *Parichthyoer.*, *Syneroer.*, *Oligoer.*, *Onychoer.*; SPRINGER (519).

†*Taxoerinus*, — *T. affinis*, (488): *T. elegans*; (487, 502): *T. intermedius* (490): *T. laevis* (487, 502): *T. macrodactylus* (492): *T. nobilis* (490, 492): *T. oblongatus* (487), probably *Eutaxoer.* (493): *T. orbigny* (492): *T. rigens* (487), probably *Eutaxoer.* (493): *T. shumardianus* (pl.): *T. splendens* (488): *T. wetherbyi* (500); SPRINGER.

†*Temnoerinus tuberculatus* (492, pl.); SPRINGER.

*Thaumatoerinus*; SPRINGER (497, pl.).

†*Tribrachioerinus corrugatus*; DUN (107).

†*Uintacrinus* sp.; TREACHER & WHITE.

†*Wachsmuthioerinus* (519), *W. thiemei* (pl.); SPRINGER.

## G. † CYSTIDEA AND EDRIOASTEROIDEA.

*Amphoridae* rediagnosed; BATHER 4 (7).

*Araelmocystis*, discussed; BATHER 4 (15).

*Aristocystidae* diagnosed (7), discussed (12); BATHER 4.

*Aristocystis* rediagnosed (8); *A. dagon* sp. n. Naungkangyi beds, Sedaw (8, pl. 1); BATHER 4.

*Astrocyostites ottawaensis*, vide *Steganoblastus*; WHITEAVES 2.

*Caryocrinidae* diagnosed and discussed; BATHER 4 (27).

*Caryocrinus*, diagnosed and spp. discussed (28) distrib. (29); BATHER 4.—*C.* sp.; REED (33).—*C. aurora* sp. n. Naungkangyi beds, Sedaw (29, pl. ii); *C. avellana* sp. n. Naungkangyi beds, Sedaw (32, pl. ii); *C. bulbulus*, *gorbyi*, *hammelli*, *indianensis*, *milliganae*, *missouriensis*, *ornatus*, *roemeri*, *sphaeroidalis*, *tumidus* (28) *C. turbo* sp. n., Naungkangyi beds, Sedaw (30, pl. ii); BATHER 4. Palaeont. Indica, Calcutta, (n. ser.) 2, Mem. 3.

*Caryocystis*, name discussed (15); *C. angelini*, synonymy (16); *C. testudinaria*, synonymy (15); BATHER 4.

*Cheirocrinus* sp.; REED (26, pl. ii).

*Codiacystis*; BATHER 4 (12).

*Craterina* BARR.; BATHER 4 (12).

*Dactylocystidae*; BATHER 4 (35).

*Diploporita* rediagnosed and discussed; BATHER 4 (33).

*Echinoenerinites* [vel *Echinoenerinus*] *angulosus*; LAMANSKY (79, 171, 178).—*E.* cf. *angulosus*; REED (25, pl. ii).—*E. laevigatus* (79, 171, 178); *E. reticulatus* (79, 171, 178); *E. senckenbergi* et var. *interlaevigata* (79, 171, 178); LAMANSKY.—*E.* aff. *senckenbergi*; REED (26, pl. ii).

*Echinosphaeridae*, diagnosed and discussed; BATHER 4 (14).

*Echinosphaerites balticus*; EVANS (634).—*E. Kingi*; REED (1, 6.): see *Camaroer*; HOLLAND.

*Eocystites*? ? *longidactylus*; PACK 292, pl. i.

*Fungocystis*, discussed; BATHER 4 (36).

*Glyptocystis giganteus*; LAMANSKY (79, 171).—*G. leuchtenbergi*? HEDSTRÖM & WIMAN (104).

*Heliocrinus*, synonymy (15) diagnosis and discussion (17); BATHER 4.—*H.* sp.; REED (24).—*H. aranea* (17); *H. balticus* (17); *H. burdigalensis* (18); *H. confortatus* (18); *H. fiseella* sp. n. Naungkangyi beds, Sedaw. (21, pl. i); *H. granatum* (17); *H. hclmhackeri* (18); *H. orum* (17); *H. qualis* sp. n. Naungkangyi beds, Sedaw (22, pl. i); *H. rouvillei*; (17); *H. rugatus* sp. n. Naungkangyi beds, Sedaw (19, pl. i); BATHER 4. Palaeont. Indica, Calcutta, (n. ser.) 2, Mem. 3.

*Hemicosmites oblongus*, *H. rugatus*; EVANS.

*Lepadocrinus gebhardi*; GRABAU (137, fig.).

*Mesites* [i.e. *Mesocystis*] *pusyreffskii*; LAMANSKY (79, 171).

*Protoocrinidae* diagnosed and discussed; BATHER 4 (35).

*Protocrinus* diagnosed and discussed (36); *P. sparsiporus* sp. n., Naungkangyi beds, Sedaw and Machinu (36, pl. ii); BATHER 4. Palaeont. Indica, Calcutta, (n. ser.), 2 Mem. 3.

*Pyrocystites pirum*; BATHER 4 (12).

*Rhombifera* diagnosed; BATHER 4 (13).

*Sphaeronis pomum*; HEDSTRÖM & WIMAN (104).—*S. testudinarius*, synonymy; BATHER 4 (15).

*Steganoblastus ottawaensis*, descriptions of Whiteaves and Bather reprinted; WHITEAVES 2 (316, figs.).

*Stribalocystis*; BATHER 4 (28).

*Trematocystis*; BATHER 4 (13).

## H. † BLASTOIDEA.

*Asteroblastus sublaevis*; LAMANSKY (79, 171).

† All extinct.

† All extinct.



*Blastoidocrinus expansa* (Hall, sub *Streptelasma*) Chazy Linnest.; RAYMOND (541).

*Metablastus?* sp., Lower Carboniferous, N.S.W., descr.; TAYLOR (figs.)—*M. wortheni*; BEEDE (1266, pl. xiv).

*Pentremites conoideus*; SMITH: *P. conoideus* (1263, pl. xxvi): *P. conoideus amplus* (1263, pl. vii): *P. conoideus perlongus* (1263, pl. vii); BEEDE.—*P. godoni*, 4 and 6 rays; SPRINGER (489).—*P. maccalliei* sp. n. Carboniferous, Georgia; SCHUCHERT. Washington, D.C., *Smithson. Inst., Nation. Mus. Proc.*, **30**, (759, figs.).—*P. vernenili* Roemer non Beadle; THEVENIN in BOULE, *Ann. Paleont. Paris*, **1** (196).

*Saccoblastus* rejected; BEEDE (1264).

*Tricoclocrinus* discussed (1264), stem (1267): *T. meekianus* (1266, pl. xiv): *T. woodmani* (1267, fig.); BEEDE.

*Troostocrinus* discussed; BEEDE (1264).

K. INCERTAE SEDIS.

† *Bolboporites* sp. nondescr. (80, 178): *B. semiglobosa* (80, 172): *B. triangularis*, et var. *uncinata* (80, 172) LAMANSKY.

† *Lodanella mira*, Cornwall; GREEN & SHERBORN.



# VI. VERMIDEA

ARRANGED BY

F. A. POTTS

The groups included under Vermidea are—

- (1) PLATYHELMINTHES, NEMERTINEA, MESOZOA; (2) NEMATHELMINTHES; (3) CHAETOGNATHIA, ROTIFERA, GASTROTRICHA; (4) ARCHIANNELIDA, POLYCHAETA, OLIGOCHAETA; GEPHYREA, PHORONIS, HIRUDINEA.

.. For ENTEROPNEUSTA *vide* PROCHORDATA

## CONTENTS

	PAGE
TITLES (for the four divisions) .. .. .	3
<b>PLATYHELMINTHES, NEMERTINEA and MESOZOA</b>	
<b>SUBJECT INDEX:—</b>	
General=1203 .. .. .	22
Structure=1207 .. .. .	22
Physiology=1211 .. .. .	23
Development=1215 .. .. .	23
Ethology=1219 .. .. .	24
Variation=1223 .. .. .	24
Distribution=1227 .. .. .	24
<b>SYSTEMATIC INDEX=1231:—</b>	
Platyhelminthes .. .. .	22
Turbellaria .. .. .	25
Trematoda .. .. .	27
Cestoda .. .. .	29
Nemertinea .. .. .	32
Mesozoa .. .. .	33

## NEMATHELMINTHES

## SUBJECT INDEX :—

General=1403	..	..	..	..	..	..	33
Structure=1407	..	..	..	..	..	..	34
Physiology=1411	..	..	..	..	..	..	34
Development=1415	..	..	..	..	..	..	34
Ethology=1419	..	..	..	..	..	..	34
Variation=1423	..	..	..	..	..	..	vacant
Distribution=1427	..	..	..	..	..	..	35

## SYSTEMATIC INDEX=1431 :—

Nematoda	..	..	..	..	..	..	35
Nematomorpha..	..	..	..	..	..	..	38
Acanthocephala	..	..	..	..	..	..	39

## CHAETOGNATHA, ROTIFERA and GASTROTRICHA

## SUBJECT INDEX :—

General=1603 ..	..	..	..	..	..	..	39
Structure=1607	..	..	..	..	..	..	39
Physiology=1611	..	..	..	..	..	..	39
Development=1615	..	..	..	..	..	..	39
Ethology=1619	..	..	..	..	..	..	39
Variation=1623	..	..	..	..	..	..	39
Distribution=1627	..	..	..	..	..	..	39

## SYSTEMATIC INDEX=1631 :—

Chaetognatha	..	..	..	..	..	..	40
Rotifera	..	..	..	..	..	..	40
Gastrotricha	..	..	..	..	..	..	41

ARCHIANNELIDA, POLYCHAETA, OLIGOCHAETA,  
GEPHYREA, PHORONIS and HIRUDINEA

## SUBJECT INDEX :—

General=1803 ..	..	..	..	..	..	..	41
Structure=1807	..	..	..	..	..	..	41
Physiology=1811	..	..	..	..	..	..	41
Development=1815	..	..	..	..	..	..	42
Ethology=1819	..	..	..	..	..	..	43
Variation=1823	..	..	..	..	..	..	vacant
Distribution=1827	..	..	..	..	..	..	43

## SYSTEMATIC INDEX=1831 :—

Archiannelida	..	..	..	..	..	..	44
Polychaeta	..	..	..	..	..	..	45
Myzostomaria	..	..	..	..	..	..	49
Oligochaeta	..	..	..	..	..	..	49
Gephyrea	..	..	..	..	..	..	51
Phoronidea. Pterobranchiata..	..	..	..	..	..	..	51
Hirudinea	..	..	..	..	..	..	52

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*N.B.*—Titles in round brackets have already appeared in the *Zoological Record*; titles in square brackets are to be found in antecedent issues of the *International Catalogue*.

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Rôle du "Chien d'abattoir" dans l'étiologie de l'Echinococcose; **Dévé**.

Abgetöteter *Cysticercus* im Auge ohne Schaden? **Stötting**.

*Dibothrocephalus*, infection acquired in America; **Nickerson** *Science*, **23**, (529).

Effects of parasites on their hosts; **Shipley** and **Fearnside**.

Parasites of animals other than man *vide* Ethology.

### Economic.

Entwicklungsformen als Augenparasiten, Pferdes; **Bächstädt**.

*Cysticercus cellulosae* am lebenden Schweine; **Kukuljevic**.

La ligulose chez les Poissons d'eau douce; **Queyron**.

## PLATYHELMINTHES, NEMERTINEA and MESOZOA.

### SUBJECT INDEX.

N.B.—For full reference go to titles.

### COMPREHENSIVE AND GENERAL.

Additions to collection of worms in Museum of Rouen; **Pennetier**.

#### Biography.

Michele Stossich and seine helminthologischen Arbeiten; **Galli-Valerio**.

### Medical. (Platyhelminthes).

Bilharzia disease and Dracontiasis, eosinophilia; **Balfour**.

Bilharziakrankheit der weiblichen Genitalien; **Goebel**.

*Distomum spathulatum*; **Laspeyres**.

*Cysticercus* im IV. Ventrikel; **Pulvermacher**.

*Cysticercus cellulosae* in den Lungen; **Kühn**.

Echinococcus cyst of the liver; **Holmes**.

Stellung des Alveolarechinokokkus; **Posselt**.

### STRUCTURE. 1207

Anatomy of Rhabdocoela and Acoela; **Brinkmann**.

Anatomie der *Tricladida maricola*; **Böhmig**.

Anatomy of *Polyonchobothrium polypteri*; **Klaptocz**.

Anatomy of *Taenia acanthocephala*; **Mrázek**.

Anatomie der *Hymenolepis*-arten der Vögel; **Fuhrmann**, 3.

Anatomy of *Gastrodiscus hominis*; **Stephens**.

Anatomischen und histologischen Verhältnisse der Paramphistomiden; **Daday**.

Anatomie der Redien; **Roszbach**.

Histologie von *Cercariaeum heliceis*; **Roewer**, 2.

Anatomy of a new species of *Neetoneurtes*; **Cravens** and **Heath**.

Färberische Eigenschaft der Echinokokkusmembran; **Delbanco**.

Morphologie des Nervensystems und Excretionsapparates der Süßwassertricliden; **Nicoletzky**.

*Dendrocoelum cavaticum* Bemerkungen über die Reduktion der Augen; **Enslin**.



Peculiar type of nephridia in *Taeniosoma*; **Coe, 2.**

Excretionsorgane der Süßwasser-tricladen; **Wilhelmi.**

Excretionsystems im Endgliede von *Rhynchobothrium*; **Pintner.**

Distomids with numerous testes; **Lühe, 3.**

Formation of proglottids in *Crossobothrium laciniatum*; **Curtis.**

Die Abnormitäten in den Proglottiden der Cestoden; **Grohmann.**

#### PHYSIOLOGY. 1211

Fissione delle Tenie alla parete intestinale e sul loro assorbimento; **Mingazzini.**

Motilité du Scolex échinococcique; **Sabrazès, Muratet, et Husnot.**

Estratto di *Taenia saginata*, inoculazioni negli animali; **Barnabo.**

Fluid of cysticercus stage of *Taenia echinococcus*; **Joest.**

Leben ohne Sauerstoff; **Kulagin.**

*Convoluta roucoffensis* environmental effects; **Fühner.**

Phototropism of Nemertines; **Minkiewicz.**

Résistance au jeûne et changements de coloration chez *Lineus bilineatus*; **Giard.**

Fortpflanzungsfähigkeit der Art *Meosostomum ehrenbergi* in Zahlen; **Sekera, 3.**

#### DEVELOPMENT. 1215

##### General.

Histogenese von *Cercariaeum helicis*; **Roewer, 1.**

Action of digestive juices on involucre of eggs of *Taenia*; **Drago, 1 and 2.**

Selbstbefruchtung bei den Rhabdocoeliden; **Sekera, 1 and 2.**

Les deux varietes de Scolex échinococciques; **Dévé, 1.**

##### Oogenesis.

Le mode de formation de l'œuf ectocéithe du *Distomum hepaticum*; **Henneguy.**

Entwicklung der Chromosomen im Ei von *Planaria gonocephala*; **Schleip.**

Einhalt des *Distomum spathulatum* und morphologische Beschaffenheit seines Embryos; **Saito, 2.**

Experiments on organisation in the nemertine egg; **Zeleny.**

##### Spermatogenesis.

The development of germ cells from differentiated somatic cells in *Moniezia*; **Child, 6.**

Spermien der Nemertinen; **Retzius, 1**; der Turbellarien; **Retzius, 2.**

##### Embryology.

Entwicklungsgeschichte der Redien; **Rossbach.**

Embryonalentwicklung von *Taenia serrata*; **Janicki, 2.**

Entwicklungsgeschichte von *Cyathocephalus truncatus*; **Wolf.**

##### Regeneration. Budding.

Significance of different methods of regulation in Turbellaria; **Child, 7.**

Regeneration in *Polychocerus caudatus*; **Stevens and Boring, 2.**

Inhibitive action of the Roentgen rays on regeneration in Planarians; **Bardeen and Baetjer.**

Form regulation in *Leptoplana*; **Child, 1, 2, 3, 4.**

Regulation and fission in *Planaria*; **Child, 5.**

Regeneration, *Planaria simplicissima*; **Morgan, T. H., 1.**

Regeneration of grafted pieces of planarians; **Morgan, Lilian V., 1.**

(Regeneration in absence of brain in *Leptoplana*; **Morgan, L. V., 2.**)

*Crossobothrium laciniatum*, formation of proglottids; **Curtis.**

Origin of Proglottides in *Crosso-*  
*bothrium*; **Curtis**, Science, **23**, (524).

Budding in platyhelminth larva;  
**Hornell**.

## ETHIOLOGY. 1215

## General.

Ethology of Danish Rhabdocoela and  
Acoela; **Brinkmann**.

Ténias et flore intestinale; **Jammes** et  
**Mandoul**.

Flore intestinale des Helminthes;  
**Weinberg** et **Soeves**.

*Lineus bilineatus*, Résistance au  
jeune et changements de coloration;  
**Giard**.

Némertiens bathypélagiques; **Jou-**  
**bin**, 2.

## Parasitism (see also Medical).

Kasustik der Parasiten; **Boř**.

Parasiten des Elechs; **Lühe**, 1.

*Bothriocephalus latus* in province of  
Rome; **Alessandrini**, 1.

Cestode parasites of man; **Stiles**, 2.

Cysticerken des Zentralnerven-  
systems; **Gebert**.

*Cysticercus racemosus* des Gehirns;  
**Gross**.

*Taenia cucumerina* beim Menschen;  
**Bollinger**.

Studien an Säugetiercestoden,  
18 spp. n.; **Janicki**, 1.

*Davainea* parasitic in poultry;  
**Yoshida**.

Weitere Finnenfunde (*Cysticercus*  
*cellulosae*) beim Reh; **Borchmann**.

Ucelli alberganti *Cyclocoelinae*;  
**Stossich**, 1.

Cestodes of birds in the Urals; **Clerc**,  
1 and 2.

Cestoden-Arten. von Vögeln; **Fuhr-**  
**mann**, 1, 2, 3.

*Taenia* trouvé vivant dans un œuf de  
Poule; **Raja** et **Péju**.

Larval platyhelminth cause of pearls in  
*Placuma placenta*; **Hornell**.

Sporocystes d'un Trematode parasite  
de *Donax trunculus* infected by Haplo-  
sporidia; **Caullery** et **Chappellier**.

*Cercaria* parasitic in *Tapes*; **Fujita**.

Cestode parasite des Huitres per-  
lières déterminant la production des  
perles fines; **Seurat**, 1.

Parasites of the pearl oyster; **Seurat**,  
2.

Trematodes parasitic in *Mytilus*  
*edulis*; **Lebour**.

Trematode parasites of the cockle and  
mussel; **Nicoll**, 1.

Fische, Quelle der Infektion mit  
*Distomum felineum*; **Askanazy**.

*Distomi* dei Pesci di Roma; **Lotti**.

Distomen der Fische und Frösche von  
Varsäva; **Sinitryn**.

Eine *Distoma*art im Pankreas der  
Rinder; **Katsurada** und **Saito**.

Turbellariés parasites des Oursins;  
**Briot**.

*Haplozoon* parasite of *Travisia*;  
**Dogiel**.

## VARIATION. 1223

Anormali proglottidi *Taenia saginata*;  
**Paravicini**.

Anomalie dei Cestodi; **Fasciolo**.

## DISTRIBUTION. 1215

## Europe.

Bologoje Susswasser-Turbellarien-  
Fauna; **Plotnikov**, 1.

Vermes of the lakes of the Jura;  
**Favre** and **Thiebaud**.

Vermes of the Moritzburger Gross-  
teich near Dresden; **Schorler** and  
**Thallwitz**.

Kaukasien rhabdocölen Turbellarien  
Umgebung des Goktscha-Sees; **Plotni-**  
**kow**, 2.

Verbreitung der *Dendrocoelum*  
*cavaticum* in der schwäbischen Alp;  
**Enslin**.

Geographisches von Gebirgsbach-  
planarien; **Steinmann**.

Alpenplanarie am Ostseestrand ;  
Thienemann, A.

Aussterbens von *Planaria alpina*  
im Hunsrück und im Hohen Venn ;  
Voigt.

Belgium. Two trematodes. 1 sp. n. ;  
Willem.

Distomen der Fische und Frosche in  
der Umgebung von Varsäva ; Sinitryn.

Département de la Gironde. La  
ligulose chez les Poissons d'eau douce ;  
Queyron.

Urals. Cestodes of Birds. 13 spp. n. ;  
Clerc, 1 and 2.

*Polycystis (Macrorhynchus)* aus dem  
Süßwasser ; Bresslau.

*Distomum hepaticum*. Verbreitung ;  
Saito, 1.

### Asia.

Ceylon. Trematode parasites from  
fish. 1 sbfam. n., 3 gen. n., 6 sp. n. ;  
Lühe.

Parasites in Ceylon. Trematoda  
2 spp. n., Cestoda 2 gen. n., 11 spp. n. ;  
Linstow, 7.

Vermes from Turkestan ; Daday, 5.

### Philippine islands.

Occurrence of *Schistosoma japonicum* ;  
Woolley.

### Africa.

Land planarians of Natal ; Jameson.

### Australasia.

Australian tapeworms ; Cobb, 1.

Land planarians in Wilson's Promon-  
tory, Victoria ; Kershaw, Vict. Nat.  
Melbourne, 22, (207).

Neu-Guinea Cestoden ; Janicki.

### N. America

Anticosti. Vermes from ; Schmitt.

### South America.

In südamerikanischen Fischen schma-  
rotzende Trematoden ; Daday, 6.

Freshwater vermes from Paraguay ;  
Daday, 3.

### Atlantic.

Danish Rhabdocoela and Acoela ;  
Brinkmann.

Sargasses, Annélides de la mer des ;  
Prince Albert de Monaco. C.-R. Acad.  
Sci., 143 (622).

Cape Verde Islands. Polyclad  
Turbellaria ; Laidlaw.

### Indo Pacific.

Hawaiian islands. Albatross collec-  
tion of nemertines ; Coe, 1.

Tonkin. Némertien recueilli par M.  
Boutan ; Joubin.

Natal, occurrence of *Convoluta roscof-  
fensis* ; Warren, 2.

Neu-Britannien und Neu-Caledonien ;  
Jacobowa.

L'Expédition antarctique, 1 gen. n. de  
Turbs. Rhabdocoelées ; Vayssière.

Mers antarctiques et cap Horn ; Tri-  
clades maricoles recueillis par l'Expé-  
dition Charcot ; Hallez, 1.

Polyclades antarctiques ; Hallez, 2.

## SYSTEMATIC INDEX.

### (a) Turbellaria.

#### RHABDOCOELIDA.

Danish Acoela ; BRINKMANN, Kjoben-  
havn, Nath. Medd. 1906 (1-159) 5 pls.

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Selbstbefruchtung, SEKERA, Zool. Anz.,  
30, (142-153) ; Zool. Anz., Leipzig, 30,  
(230-231).

Danish Rhabdocoela, BRINKMANN,  
Kjöbenhavn, Nath. Medd., 1906, (1-  
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PLOTNIKOV, St. Peterburg, Ber. Süß-  
wasserst. Naturf. Ges., 2, (30-38 +  
deutsch. Rcs. 39-41) Taf. ii.

*Convoluta roscoffensis* Biologie.  
FÜHNER, Biol. Centralbl. 26, (24-26) ;  
occurrence on Natal coast. WARREN  
Natal Gov. Mus. Ann. 1, (105, pl. xiii).

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*Vortex erivaicus* (397) pl. xxii fig. 3–4, *kessleri* (398 pl. xxii fig. 5–6) *caucasicus* (398 pl. xxii fig. 7), spp. n., Kaukasien, PLOTNIKOW Zool. Jahrb. Syst. **23**.—*V. (Castrella) bologoviensis* sp. n. Bologoje, PLOTNIKOW, St. Petersburg, Ber. Süswasserst. Naturf. Ges., **2**, (30–38 + deutsch. Rés. 39–40) Taf. ii.—*V. vicgudifer* sp. n., Bologoje, PLOTNIKOW, T.c. (30–38).

## TRICLADIDA.

Süswassertricladien Morphologie des Nervensystems und Excretionsapparates, NICOLETZKY Zool. Anz., **30**, (702–710).—Excretionsorgane WILHELM, Zs. wiss. Zool. **80**, (544–575) T. xxix–xxx.

(*Aceros maculatus* sp. n. Antarctique. HALLEZ, Paris, Bul. soc. zool., **30**.)

*Amblypana* spp. n. from Natal. JAMESON, Lond. Rep. Brit. Ass. 1905 (442).

*Bipalium natalense* sp. n. Grossnana, MEIXNER, Zool. Anz. **29** (668).

*Dendrocoelum cavaticum*, Verbreitung in schwäbischen Alp., Anatomie. ENSLIN, Stuttgart, Jahreshfte Ver. Natk., **62**, (312–360), 1 Taf.—*D. lacteum* excretory organs WILHELM Zs. wiss. Zool., **80**, (544–575) T. xxix–xxx.

*Geoplana rosenbergi* sp. n. Peru, MEIXNER Zool Anz. **29** (665).

*Plagocata gracilis*, regeneration of grafted pieces. MORGAN J. Exp. Zool. **3** (269–294).

*Planaria alpiua* Aussterben im Hunsrück u. Hohen Venn. VOIGT, Bonn, Verh. nat hist. Ver., **62** (179–218); im Eiszeit, Lebensgeschichte. THIENEMANN, Zool. Anz., **30**, (499–504); *P., gonocephala*, torva excretory organs. WILHELM Zs. wiss. Zool. **80** (544–575) T. xxix–xxx; *P., polychroa, lactae* Nervensystem u. Excretionsystem. NICOLETZKY. Zool. Anz. **30** (702–710); *P., gonocephala* Geographisches und Biologisches. STEINMANN, Arch. Hydrobiol., **2**, (186–217) Taf. ii.—*P. gonocephala* Chromosomen im Ei, SCHLEIP, Zool. Jahrb., Abt. f. Anat., **23**, (357–380) T. xxiii–xxiv.—*P. maculata* regeneration of grafted pieces. MORGAN J. Exp. Zool. **3** (269–294); and sp. n. California, relation between regulation and fission. CHILD Biol. Bull. **11** (113–123).—*P. morgani* sp. n. Pennsylvania. STEVENS and BORING, Bryn Mawr Coll. Monogr., **6**, (7–9) pl.; sp. n. Pennsylvania. STEVENS and BORING, Philadelphia Proc. Acad. **58**, (7–9) pl. 1.—*P. simplicissima* Regeneration. MORGAN, J. Exp. Zool., **1**, (385–393).

*Polycelis cornuta* von Gebirgsbach. Verbreitung. STEINMANN Arch. Hydrobiol. **2** (186–217) Taf. ii.—*P. cornuta, nigra* Nervensystem u. Excretionsystem. NICOLETSKY. Zool. Anz. **30** (702–710).—*P. nigra* excretory organs. WILHELM Zs. wiss. Zool., **80**, (544–575) T. xxix–xxx.

*Procecodes jaqueti* sp. n., Schwarzes Meer, BÖHMIG, Zs. wiss. Zool., **81**, (350) T. xvi fig. 2 xix fig. 8.—*P. wandeli* (395), *marginata* (397) spp. n. Antarctique, HALLEZ Bul. Muséum **12**.

*Rhodoplana* gen. n. *wandeli* sp. n. Wandel I. VAYSSIÈRE Bul. Muséum **12** (149).

*Sabussovia* gen. n. für *Planaria dioica* Clap. 1863 BÖHMIG Zs. wiss. Zool. **81**, (359) T. xii–xix.

(*Styloekus albus* sp. n. Antarctique, HALLEZ Paris Bul. soc. zool., **30**.)

(*Stylostomum antarcticum punctatum* spp. n. Antarctique HALLEZ T.c. **30**.)

## POLYCLADIDA.

*Dicteos* gen. n., *pacificus* sp. n. New Caledonia. JACUBOWA, Jenaische Zs. Natw., **41**, (144–148) Taf. x, figg. 2–5 xi, fig. 5.

*Latocestus plehni* sp. n. C. Verde Is. LAIDLAW London Proc. Zool. Soc. **1906** (711-712).

*Leptoceera* gen. n., *delicata* sp. n. New Britain. JACUBOWA, Jenaische Zs. Natw. **41** (135-139) taf. viii, fig. 10-11, ix, fig. 1, xi, fig. 7-8.

*Leptoplana*, form regulation. CHILD J. Exp. Zool. **1** (95-133, 463-557), **2**, 253-285.—*L. graffi* sp. n. C. Verde Is. LAIDLAW London Proc. Zool. Soc. **1906** (708-700).—*L. suleri* sp. n. New Zealand, JACUBOWA, Jenaische Zs. Natw. **41** (150) Taf. x, figg. 7-9, xi, fig. 6.—(*L. littoralis* regeneration in absence of brain. MORGAN, Biol. Bull. **9** (187-193).)

*Mesocoela* gen. n., *caledonica* sp. n. New Caledonia. JACUBOWA, Jenaische Zs. Natw. **41** (141-144) Taf. ix fig. 8 x fig. 1-6.

*Notoplana willeji* sp. n. New Britain. JACUBOWA, T.c. (131-135) Taf. viii figg. 8-9 xi fig. 9.

*Paraplanocera laidlari* sp. n. New Britain. JACUBOWA, Jenaische Zs. Natw., **41**, (115-121, taf. vii, fig. 1-9).

*Prostheccraeus vittatus* spermatozoa. RETZIUS Retzius Biol. Untersuchungen. **13** (43) Taf. xiv. figg. 2-3.

*Traunfelsia*, affinities of genus. *T. elongata* sp. n. C. Verde Is. LAIDLAW. London Proc. Zool. Soc. **1906**, (714-718) pl. lii, figg. 4-5.

*Zygantriplana* gen. n. *verrilli* sp. n. C. Verde Is. Structure. LAIDLAW, T.c. (709-711) pl. lii figs. 1, 2.

## (b) Trematoda.

*Acanthochasmus*, Artübersicht, StOSSICH, Triest, Boll. Soc. Adriat. Sci. Nat. **22** (211-227).—*A. inermis* sp. n., Golf von Triest, StOSSICH, T.c. (211-227).

*Acanthocolpus* gen. n. *Acanthocolpinac* sub. fam. n. *liodorus* sp. n. (100 pl. 1, figg. 7-8); from Ceylon fishes. LÜNE London, R. Soc. Rep. Pearl Oyster, **5**.

*Acanthocotyle branchialis* sp. n. in ray. WILLEM, Bruxelles, Bul. Acad. roy. 1906, (522, 599-607) pl. i. figg. 1-10.

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für *Distomum alacre* Looss, *A. characis* nom. n. für *D. characis* Stoss., *A. mormyri* nom. n. für *D. mormyri* Stoss., *A. umbrinae* nom. n. für *D. umbrinae* Stoss. StOSSICH, T.c. (211-227).—*A. dubium* sp. n., Golf von Triest, StOSSICH, T.c. (211-227).

*Anaporrhutum largum* sp. n. from Rhinoptera javarica Ceylon. LÜNE, London, R. Soc. Rep. Pearl Oyster, **5**, (104-6), pl. ii, fig. 17.

*Aporchis* gen. n. für *Echinostomum croaticum* Stoss., StOSSICH, Triest, Boll. Soc. Adriat. Sci. Nat. **22** (211-227).

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*Bucephalus haimeanus* sporocysts infected by Haplosporidia CAULLERY et CHAPPELLIER, Paris, C.-R. soc. biol., **60**, (325-328).

*Cercaria armata*, aus *Limnaeus stagnalis*, *echinata* aus *Paludina vivipara* anatomy and development of redia-stage. ROSSBACH, Zs. wiss. Zool. **84** (361-445) Taf. xvi-xix.—*C. helicis*. Histogenese. ROEWER, Diss. Jena. 1906.—*C. lutea* sporocysts infected by Haplosporidia. CAULLERY et CHAPPELLIER, Paris, C.-R. soc. biol. **60**, (325-328).

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*Cyclocoelum arcuatum*, *mutabile*, Beschreibung und Abbildung, StOSSICH, Triest, Boll. Soc. Adriat. Sci. Nat., **21**, (1-40, 9 Taf.) [*Trematoda*].—*C. adolphi* Sibirien, *brasilianum*, Brazil, *caele*, *ovopunctatum*, Italien, Deutschland, *problematicum*, Aegypten, *C. robustum* spp. n. StOSSICH, T.c. (1-40).

*Diplodiscus marenzelleri* sp. n., In *Myletes*, aus Süd-Amerika, (508), DADAY, Math. Termt. Ért., 24.

*Diphtherostomum* gen. n. *brusinae* and *luteum*, STROSSICH, Triest, Boll. Soc. Adriat. Sci. Nat. 21 (193-201). [*Trematoda*.]

Distomi dei Pesci-di Roma. I. OTTI, Roma Boll. Soc. zool. Ital. 6 (227-8).

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*Epibdella (Benedenia) macrocolpa* sp. n. (97, pl. i figg. 1-3.) *Rhinoptera javanica*. Ceylon LÜNE London, R. Soc. Rep. Pearl Oyster 5.

*Gastris* gen. n. *consors* sp. n. (103) pl. ii figg. 13-16 from *Tetrodon stellatus* Ceylon. LÜNE. London, R. Soc. Rep. Pearl Oyster 5.

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*Lepocreadium* gen. n. for *Distomum pegorechis, album* STROSSICH. Triest, Boll. Soc. Adriat. 21 (193-201).

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*Lyperosomum squamatum* sp. n. from *Dissura episcopus* LINSTOW. Spolia Zeylan. 3, (174) pl. i, fig. 18.

*Microrchis* gen. n. Verwandt mit *Diplodiscus* und *Pseudocladorchis, megacotyle* (Dies.), *ferrum equinum* (Dies.), Beschreibung, (515), DADAY, Math. Termt. Ért., 24.

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### (c) Cestoda.

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*Anthobothrium crispum* (57, pl. iii figg. 45, 46) *rugosum* (78, pl. v fig. 92) spp. n. in Ceylon fishes. SHIPLEY and HORNEILL. T.c. — *A. auriculatum*. Anatomy. JOHNSTONE, Liverpool Proc. Trans. Biol. Soc. 20 (314-316), pl. xvi figg. 1, 2.

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*Bertia rigida* sp. n. Neu-Guinea, aus *Phalangista* sp., JANICKI, Nova Guinea, 5, Livr. 1, (181-200).

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*Carpobothrium* gen. n. *chiloseyilli* sp. n. (54) pl. iii figg. 38, 39, from *Chiloseyillum indicum*, Ceylon. SHIPLEY and HORNEILL London R. Soc. Rep. Pearl Oyster 5.

*Cephalobothrium* gen. n. *actobatidis* sp. n. from *Aetobatis narinari*, Ceylon. SHIPLEY and HORNEILL T.c. (44-45) pl. i figg. 1-4.

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*Choanotaenia arquata* sp. n. dans *Numenius arquatus* CLERC, Centralbl. Bakt. Abt. 1 42 Orig. (720).

*Cittotaenia bursaria* sp. n. from *Lepus nigricollis*, Ceylon. LINSTOW Spolia Zeylan. 3 (184) pl. ii figg. 39-40.—*C. zschokkei* sp. n. Neu-Guinea, aus *Macropus* sp., JANICKI, Nova Guinea, 5, Livr. 1, (181-200).

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*Culcitella* gen. n., *rapacicola* (83) *crassa* (85) spp. n., from birds of prey. FUHRMANN, Centralbl. Bakt. 41 Orig.

*Cyclostera fuhrmanni* sp. n. dans *Botaurus stellaris*. CLERCQ, Centralbl. Bakt. Abt. 1 42 Orig. (726).

*Cysticerus cellulosae* beim Reh. BORCHMANN, Berliner tierärztl. Wochenschr., 1906, (637-638); am lebenden Schweine. KUKULJEVIĆ, Berliner tierärztl. Wochenschr. 1906, (626-630).

*Davainca compacta* sp. n., dans *Oriolus galbula*, CLERCQ, Centralbl. Bakt., Abt. 7 42 Orig. (725).—*D. polycalcaria* sp. n. from *Corvus macrorhynchos*, Ceylon. LINSTOW, Spolia Zeylan. 3 (180) pl. ii figg. 28-29.—*D. lateralis* sp. n. aus *Galeopithecus volans*, BOURQUIN, Centralbl. Bakt., Abt. 1, 41 Orig. (222).—*D. (Chapmania) longicirrhosa* sp. n. FUHRMANN, Centralbl. Bakt. 41 Orig. (81).—*D. parva* (? = *Taenia voluta* v. Linstow) (540); *trapezoides* (568), *gracilis* (570), spp. n. aus Säugetiere. JANICKI Zs. wiss. Zool. 81.—*D. species* parasitic in poultry. (Japanese). YOSHIDA, Dobuts. Z., Tokyo, 18, (173-185, 203-206) pl.

*Diagonobothrium* gen. n. *asymmetrum* sp. n. from *Myliobatis maculata*, Ceylon, SHIPLEY and HORNELL London R. Soc. Rep. Pearl Oyster 5 (58) pl. iii, fig. 47.

*Dilepis recapta* sp. n., Oural. CLERCQ, Centralbl. Bakt. Abt. 1 42 Orig. (715).—*D. brachyarthra* sp. n. oiseaux. CHOLODKOWSKY, Arch. parasit 10 (337).—*D. oligorchida* sp. n. from *Busarellus nigricollis* FUHRMANN, Centralbl. Bakt. 41 Orig. (215).—*Diorchis oclusa* sp. n. from *Phoenicopterus roseus* Ceylon LINSTOW, Spolia Zeylan. 3, (179) pl. ii, figg. 26-27.

*Diplochetos vulvulus* sp. n. from *Sarcophorus malabaricus*, Ceylon. LINSTOW. T.c. (181, pl. ii) figg. 30-31.

*Dipylidium avicola* sp. n. from Gyps Kolbi. FUHRMANN, Centralbl. Bakt. 41 Orig. (219).

*Drepanidotaenia caprimulgorum* sp. n., FUHRMANN, Centralbl. Bakt. Jena Abt. 1, 41 Orig. (441).—*D. undulata* from *Turdus musicus*. Anatomy and development. ROSSETER London J. Quek. Microsc. Cl. 9 (269-274) pl. xix.

*Echinocotyle tenuis* sp. n., CLERCQ, Centralbl. Bakt. Abt. 1 42 Orig. (536).

*Echeneibothrium javanicum* (61, pl. iv. figg. 51-56), *simplex* (80, pl. vi. figg. 95-97), *trifidum* (80, pl. vi, figg. 98-99), *trygonis* (81, pl. vi. fig. 100) *uvalga* (81, pl. vi. fig. 101) spp. n. Ceylon fishes. SHIPLEY and HORNELL, London R. Soc. Rep. Pearl Oyster 5.—*E. variabile* varieties, JOHNSTONE Liverpool Proc. Trans. Biol. Soc. 20, (309-313).

*Echinobothrium rhinoptera* sp. n. (62) pl. iv. figg. 57-59 from *Rhinoptera javanica*, Ceylon. SHIPLEY and HORNELL, London R. Soc. Rep. Pearl Oyster 5.

*Euiobothrium* gen. n. *gracile* sp. n. (63-65) pl. iv. figg. 60-62 from *Rhinoptera javanica*, Ceylon. SHIPLEY and HORNELL, T.c.

*Horuellobothrium* gen. n. *cobraformis* sp. n. from *Actobatis narinari*, Ceylon. SHIPLEY and HORNELL T.c. (45) pl. i figg. 5-10.

*Hymenolepis rugosus* (433) dans *Columba interruptus* (435) dans *Muscicapa atricapilla*, *intermedius* (436) dans *Cuculus dentatus* (532), *ambiguus* (533) dans *Otis* spp. n., CLERCQ, Centralbl. Bakt. Abt. 1 42.—*H. longicirrosa* (751), *longivaginata* (752), *simplex* (753), *brevis* (753), *orthacantha* (754) spp. n. aus Vogel. FUHRMANN, Centralbl. Bakt., Jena, Abt. 1, 42, Orig., 1906.—*H. septaria* (177) pl. i fig. 21, *clausa* (177, pl. ii figg. 22-23) *spinosa* (178) figg. 24-25 spp. n. Ceylon, LINSTOW Spolia Zeylan. 3.—*H. tetracis* (338) *Otis tetrax*, *spinulosa* (342), *diaphana* (343), *Sorex vulgaris*, spp. n. CHOLODKOWSKY Arch. parasit. 10.—*H. lobata* (352), *armata* (353), *styloides* (354), *capillaroides* (355), *flagellata* (356), *papillata* (357), *pellucida* (440), *uncinata* (441), *Hymenolepis teresoides* (443), *bisaccata* (444), *brevianulata* (445), *brasiliense* (446), *rectacantha* (446), *panicovata* (447), *serrata* (448), *elongata* (450), *arvaleae* (451), spp. n. in birds. FUHRMANN, Centralbl. Bakt., Jena, Abt. 1, 41, Originale.—*H. steudeneri* (537), *chrysochlorides* (545), *capensis* (547), *criceti* (556), *asymmetrica* (562), *procera* (565), *muris variegati* (567), *crassa* (571), *contracta* (574) spp. n., Aus Säugetiere. JANICKI, Zs. wiss. Zool. 81, (537-574).—*H. nana*: RONCHIETTI, Torino, Giorn. Acc. med., 69, (93-95).—KOWALEWSKI, Kraków, Rozpr. Akad. 45 B, (222-238).



*Icthyotaenia cryptobothrium* sp. n. from *Chrysopleca ornata* Ceylon, LINSTOW. *Spolia* Zeylan. **3**, (185) pl. iii, figg. 41-42.

*Idiogenes grandiporus* sp. n. *Otis tetraz.* CHOLODKOWSKY, Arch. parasit. **10** (339).—*I. tapika* sp. n. Oural. CLERC, Centralbl. Bakt. Abt. I **42** Orig. (722).—*I.* sp. n. aus. *Otis tetraz* KOWALEWSKI, Zool. Anz., **29**, (683-686).

*Kystocephalus* gen. n. *translucens* sp. n. from *Actobatis narinari*, Ceylon. SHIPLEY and HORNELL London R. Soc. Rep. Pearl Oyster, **5** (46, pl. 1 figs. 11-12).

*Latevotaenia* gen. n., *natteri* sp. n. (87) from *Cathartes pupa*, FUHRMANN, Centralbl. Bakt. **41** Orig.

*Tigula simplicissima*: nella *Tinca vulgaris*. BARBAGALLO, Cagliari, Boll. Soc. Sci. nat., **1906**, (162-163); var. *lilicacensis* from *Orestias* S. America. NEVEU LEMAIRE Les lacs des Hauts Plateaux de l'Amérique du Sud. Paris Svo, 1906, (138).—*T.* chez les Poissons d'eau douce dans le département de la Gironde. QUEYRON, Bordeaux, Actes soc. linn., **60**, Proc.-verb. (cv.-cviii).

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*Moniezia* development of germ cells from somatic cells. CHILD, Anat. Anz., **29**, (592-597).—*M. beauforti* sp. n. Neu Guinea, aus *Cyclopsittacus diopthalmus*, JANICKI, Nova Guinea, **5**, Livr. I, (181-200).

*Monopylidium soricinum* sp. n. *Sorex vulgaris* CHOLODKOWSKY, Arch. parasit. **10**, (341).

*Myzocephalus* gen. n. *narinari* sp. n. (46) pl. i figs. 13-16 from *Actobatis narinari*, Ceylon. SHIPLEY and HORNELL, London R. Soc. Rep. Pearl Oyster **5**.

*Myzophyllobothrium* gen. n. *rubrum* sp. n. *Actobatis narinari*, Ceylon. SHIPLEY and HORNELL. T.c. (47-48, pls. i-ii, figg. 17-21).

*Oligorchis* gen. n., *strangulatus* sp. n. from *Elanoides furcatus*. FUHRMANN Centralbl. Bakt. **41** Orig. (217).

*Oochoeristica bivittata* (515) *vageneri* (533) spp. n., Aus Säugetiere, JANICKI, Zs. wiss. Zool. **81**.

*Ophryocotyle zeylanica* sp. n. from *Lophoceros gingalensis*, Ceylon. LINSTOW. *Spolia* Zeylan. **3**, (182) pl. ii. figg. 32-34.

*Paruterina* gen. n., *angustata* sp. n. from *Scops brasiliensis*. FUHRMANN, Centralbl. Bakt. **41** Orig. (213).

*Phyllobothrium minutum* (52) pl. iii figs. 32, 33, *pamnicium* (53) pl. iii figs. 34-35, *blakei* (70), pl. v figs. 72, 73, spp. n. in Ceylon fishes. SHIPLEY and HORNELL London R. Soc. Rep. Pearl Oyster **5**.

*Polygonchobothrium polypteri* anatomy. KLAPROTZ, Centralbl. Bakt., Abt. I, **41**, Orig. (527-536).

*Prosthebothrium trygonis* sp. n. (74) pl. v. figg. 80, 82, from *Trygon*, Ceylon. SHIPLEY and HORNELL, London R. Soc. Rep. Pearl Oyster **5**.

*Rhabdometra* gen. n. *tonica* sp. n. *Tetrao tetrix*. CHOLODKOWSKY, Arch. parasit. **10** (335).

*Rhinebothrium ceylonicum* sp. n. (71) pl. v. figg. 74-75 from *Trygon kuhli*, Ceylon. SHIPLEY and HORNELL, London R. Soc. Rep. Pearl Oyster, **5**.

*Rhoptobothrium myliobatis* sp. n. from *Myliobatis maculata*, Ceylon. SHIPLEY and HORNELL London R. Soc. Rep. Pearl Oyster **5** (50) pl. iii fig. 48.

*Schizotaenia* gen. n., *hagmanni* sp. n., aus *Hydrochoerus capybara* JANICKI, Zs. wiss. Zool. **81** (582).

*Synaptobothrium* v. Linst. = *Lecithochirium* Lühe. *copulans* Anatomie. ODINER, Zool. Anz., **30**, (59-66).

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*Tetrarhynchus aetobatidis* (49) pl. ii figs. 22-24, *gangeticus* (50) pl. ii fig. 28, *perideracus* (51) pl. ii figs. 29-31, *carcharidis* (53) pl. iii figs. 36, 37, *rhynchobalidis* (68) pl. iv figs. 69-71, *leucomelanus* (74) pl. v figs. 83-84, *macroporus* (76) pl. v fig. 87, *equidentatus* (83) pl. vi figs. 106-107, *herdmani* (84) pl. vi figs. 108-109, *macrocephalus* (85) pl. vi figs. 110-112, *platycephalus* (86) pl. vi figs. 113-114, *rubromaculatus* (86) pl. vi fig. 115 in Ceylon fishes, spp. n.; SHIPLEY and HORNELL London R. Soc. Rep. Pearl Oyster **5**.—*T. unionifactor* (65) pl. iv figg. 63-64. Adult form described from Rhinoptera javanica; Ceylon SHIPLEY and HORNELL, T.C.

*Thysanobothrium* gen. n. *urnakense* sp. n. (77) pl. v figg. 88-91, from *Trygon urnak*, Ceylon. SHIPLEY and HORNELL, T.C.

*Tiarobothrium* gen. n. *javanicum* sp. n. (67) pl. iv figg. 65-68 from *Rhinoptera javanica*, Ceylon SHIPLEY and HORNELL, T.C.

*Trichocephaloides birostrata* sp. n. dans *Tringa minuta* CLERC, Centralbl. Bakt. Abt. 1 **42** Orig. (713).

*Tylocephalum* Linton = (*Tetragonocephalum* Shipl. and Horn. 1905), SHIPLEY and HORNELL, London R. Soc. Rep. Pearl Oyster **5** (48). *aetobatidis* (49) pl. ii figg. 22-24, *dierama* (59) pl. iii figg. 49-50, *kuhli* (72) pl. v figg. 76-77, in Ceylon fishes.

*Tylocephalum margaritiferae* sp. n. Gambier Is. pearl production SEURAT, Paris C.-R. Acad. sci. **142** (801-803); Bull. Mus. Monaco. No. 70, 1906, (14).

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*Amphiporus hastatus*. St. Andrews, structure. MOLINOSI, Ann. Mag. Nat. Hist. **17**, 1906 (78-81).

*Carinella annulata* spermatozoa. RETZIUS, Retzius Biol. Untersuchungen **13** (40) Taf. xiii figg. 19-30.

*Cerebratulus marginatus* localisation of developmental factors in the egg. ZELENY, J. Exp. Zool., **1**, (293-329); spermatozoa RETZIUS, Retzius Biol. Untersuchungen, **13** (39) Taf. xiii, figg. 8-11; *C. angulatus* = *marginatus*. bifid examples from Aberdeen and Naples. MOLINOSI Ann. Mag. Nat. Hist. **17** 1906 (74-78), pl. ii. fig. 3, pl. iii.—*C. velatus* sp. n. Tonkin, JOUBIN, Paris Bul. soc. zool. **30** (144-147).

*Lineus bilineatus* resistance au jeûne et changements de coloration. GIARD, Feuille jeunes natural, Paris, **36**, (12).—*L. ruber* phototropism. MINKIEWICZ Paris, C.-R. Acad. Sci. **143**, (785).

*Nectonemertes pelagica* sp. n., Monterey Bay, California, CRAVENS and HEATH, Zool. Jahrb., Abt. f. Anat., **23**, (337-356) pl. xxi, xxii.

*Oxypolella alba* spermatozoa. RETZIUS, Retzius Biol. Untersuchungen. **13** (39) Taf. xiii figg. 12-18.

*Pelagonemertes richardi* sp. n. Atlantic. JOUBIN, Paris C.-R. Acad. sci. **142**, (1350).

*Planktonemertes grimaldii, alberti zonata rhomboidalis* spp. n. Atlantic. JOUBIN Paris, C.-R. Acad. Sci. **142**, (1350).

*Nectonemertes chavesi, grimaldii, lobata* spp. n. Atlantic. JOUBIN T.c. (1350).

*Rhynchobothrius ruficollis* excretions-system PINTNER, Zool. Anz., **30**, (576-578).

*Taeniosoma cingulatum* Hawaiian Is. Peculiar type of nephridia. CoE, Biol. Bull., **11**, (47-52).—*T. univittatum* (978 pl. i figg. 1-3) *cingulatum* (981 pl. i figg. 4-6), spp. n., Hawaiian Is., CoE, Washington, Bull. U. S. Fish Com. **23**.

### (3) MESOZOA.

*Orthonectides* et *Dicyemides* Cycles évolutifs des; MESNIL et CAULLERY, **141**, 1905, (774-776).

*Haplozoon* gen. n., *armatum* sp. n. Parasit von *Travisia forbesi*. DOGIEL, Zool. Anz., **30**, (895-899).

## NEMATHELMINTHES.

### SUBJECT INDEX.

COMPREHENSIVE AND GENERAL.  
1403

#### Biography.

Stossich, Michele und seine Arbeiten; Galli-Valerio.

#### Medicine and Nematelminthes.

Effects of parasites on their hosts; Shipley and Fearnside's.

Appendicitis caused by *Ascaris lumbricoides*; Anley.

*Rhabditis strongyloides* als Ursache Hautausschläges bei Hunde; Kühnemann.

(N-9720 o)

*Eustrongylus gigas* im menschlichen Harnapparat mit einseitiger Chylurie; Stuertzer.

Eine durch *Strongylus rubidus* bedingte Massenerkrankung bei Zuchtsauen; Oppermann.

Une épidémie de trichinose; (Polish) Chelchowski.

Fall von Trichinose mit lebenden Trichinen; Babes.

*Filaria loa* as human parasite in North America; Wård.

Nouveau cas de *Filaria loa* mâle; Billet.

Symptoms induced in host by *Filaria*; Billet.

Anguillula-Erkrankungen beim Menschen; Schlüter.

Abmagerung eines Rindes infolge Besetzung mit Nematoden; Schiel.

Nematode parasites of man and domestic animals; Tempère.

Entwicklungsformen als Augenparasiten, mit besonderer Berücksichtigung der periodischen Augenentzündung des Pferdes; Bächstätt.

Nematoda of earth-worm, possible factor in disease; Fraser.

#### *Ankylostomiasis.*

Calmette et Breton; Kiewiet de Jonge; Tenholt, **1, 2**; in deutschen Bergwerken Löbker u. Bruns; in Sachsen Karg; Hickson, Nature, **73**, (344).

Infektion mit *Ankylostomum* durch die Haut; Looss; Tenholt; Luke, **2**; Schöffner.

Ueber den Infectionsmodus und die vermeintliche Giftwirkung der *Ankylostomum* Würmer; Liefmann.

#### Agriculture and Nematelminthes.

Free-living nematodes causing plant diseases in Ireland; Carpenter.

Auftreten von *Tylenchus devastatrix* in Lupinen; Mayer Gmelin.

Free-living nematodes from soil round roots of sugar cane; Cobb, **2**.

## STRUCTURE, 1407

Ricerche anatomische sull' *Echinorhynchus capitatus*; **Porta**.

Hautschicht der Nematoden; **Retzius**, 3.

Haut-Nerven-Muskelsystems von *Meremis albicans*; **Rauther**.

Histologie von *Ascaris*; **Goldschmidt**.

Histologie der *Heterakis*; **Roth**.

Coelem in Nematoda; **Stewart**.

Comparative Morphology of the Excretory glands and Gonenteric canal in Nematoda; **Stewart**.

Abnormen ♀ Geschlechtsapparat von *Ascaris lumbricoides*; **Balss**.

Abnormalitäten des Genitalapparats bei Ascariden; **Harms**.

Struttura delle cellule epiteliali che tappezzano il tubo ovarico e spermatico degli Ascaridi; **Sala**, 1, 2.

## PHYSIOLOGY, 1411

Antibody in *Ascaris* and resistance to digestion of intestinal worms; **Hamill**.

Die Blutgerinnung hemmende Substanz in *Ankylostomum caninum*; **Loeb** u. **Smith**, and **Loeb**.

Guinea worm larvae, Action of acid while in *Cylops*; **Leiper**.

Incapsulamento o incistidamento delle larva di Nematodi allo stato libero; **Perroncito**, 2.

## DEVELOPMENT, 1415

Sviluppo degli Oxyuridi; **Perroncito**.

Life history of the twisted wireworm (*Haemonchus contortus*); **Ransom**.

Der Rhachis im Ovarium und Hoden; **Mayer**, Alfred.

A reducing division in *Ascaris*; **Griggs**.

Meiotic phenomena in eggs of hermaphrodite form of *Angiostomum nigrovenosum*; **McDowall**.

Ei und Samenreife bei *Ascaris canis*; **Marcus**.

Beweglichkeit der *Ascaris*-Spermien; **Marcus**.

Développement artificiel de l'*Ascaris vitulorum*; **Jammes** et **Martin**, 1 & 2.

Entwicklungsmechanik; *Ascaris megaloccephala*; **Zur Strassen**.

Nematodenentwicklung als Mosaikarbeit; **Martini**, 1.

## ETHOLOGY, 1419

## General.

Resistance of *Ascaris* to digestion due to an Antibody; **Hamill**.

Biology of *Trichina*; infected faeces, feeding experiments; **Höyberg**, 1, 2.

Infection of Monkeys with guinea-worm; **Leiper**. Nature 74 (562).

Fixation sur la muqueuse du tube digestif; **Weinberg**, 2.

Kasuistik der Gordiidae; **Boll**.

Zur Biologie von *Cephalobus elongatus* und *Rhubditis brevispina*; **Marcinowski**.

Encapsulement des Nématodes à l'état libre; **Perroncito**, 6.

Flore intestinale des Helminthes; **Weinberg** et **Soeves**.

*Ascaris texana*. Parasitic in human intestine; **Smith** and **Goeth**.

Elminti parassiti dell' intestino del Tacchino e del Colombo; **Barbagalla**.

Life history of (*Haemonchus contortus*) of ruminants; **Ransom**.

Nematode parasites of the Gharial; **Linstow**, 8.

Parasiten des Elches; **Lütke**, 1.

*Oxyuris vermicularis* in der Darmwand; **Wagner**.

Kystes vermineux du gros intestin chez le Chimpanzé et les singes inférieurs; **Weinberg**, 1.

Gesophagostomes des Primates; **Raillet** et **Henry**, 60.

Filaire du sang chez l'*Uromastix*; **Cathoire**.

Nematode parasites of Ants; **Janet**.

*Echinorhynchus* in fishes of Finland; **Forssell**.

Demetrios Pepagomenos über die Würmer in den Augen der Jagdfalken; Huber.

SYSTEMATIC. 1431

GEOGRAPHY. 1427

Europe.

Vierwaldstädter See, bathybiische Nematoden; Daday, 1.

Forth Area, Free living nematodes; Murray, 3.

Estland, Süßwasser - nematoden; Schneider, 3.

Finnischen Meerbusen, frei Nematoden; Schneider, 2.

Finland, free living marine nematodes 9 spp. n.; Schneider, Guido, 1.

Finland, distribution of *Echinorhynchus* in Fishes; Forssell.

Bologie, Süßwasser - Nematoden - Fauna; Plotnikov, 1.

Cette, Nématodes libres, marins; Rouville.

Asia.

Mongolia, Freshwater Nematoda from; Daday, 4.

Ceylon, Parasites in, *Nematoda* 17 spp. n., *Acanthocephala* 1 sp. n.; Linstow, 7.

Korea, *Gordiidae*, 2 spp. n.; Von Linstow.

American hookworm (*Necator americanus*) in Guam and China; Stiles, 1.

America.

North America, List of occurrences of *Filaria loa*.; Ward.

Helminthologie bresilienne; Magalhaes.

Pacific.

Hawaii, free living nematodes 19 spp. n.; Cobb, 2.

Antarctic.

Antarctic free living nematodes; Richters.

(N-972.) o)

Nematoda.

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b 13-2

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*Dorylaimus iethyris* (166), *elaboratus* (167), *pacificus* (169), *striaticaudatus* (170), *hawaiiensis* (172), *magnicollis* (173) *pusillus* (174), *bulbiferus* (175), spp. n., in soil round roots of sugar cane, Hawaii COBB. Bull. No. 6, Divn. Path. and Phys. H.S.P.A. Experiment Station. 1906.—*D. bathybins*, *zschokkei* bathybische, Vierwaldstätter See. DADAY. Zool. Anz., 30, (413-415).

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## DEVELOPMENT. 1611

Formation of colonies of *Megalotrocha alboflavicans*; **Surface**.

## Acanthocephala.

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## ETHOLOGY. 1619

Myxosporidian parasite of *Copeus Warren*, 1.

Rotifères parasites; **Beauchamp**, 7.

Indes Néerl. Chaetognatha of the Siboga-Expedition; **Fowler**.

## VARIATION. 1623

*Asplanchna priodonta*. Variation; **Langhans**.

## GEOGRAPHY. 1627

## 1. Terrestrial.

## Europe.

Plankton of some Irish lakes; **West**.

Forth Area bdelloid rotifera; **Murray**, 5.

Rotifères des environs de Paris; **Beauchamp**, 5, 6.

Rotifera der Seen der Karstes; **Car**.

## Asia.

Rotifera from Mongolia 4 spp. n.; **Daday**, 4.

Sikkim Himalaya. Bdelloid Rotifera from moss, 4 spp. n.; **Murray**, 1.

## Africa.

South Africa. Distribution of species of Rotifera; **Rousselet**.

Natal. Rotifera 1 spp. n.; **Kirkman**.

## Java, Siam, Cochinchine, Iles Sandwich.

Rotateurs. **Weber**.

## Antarctic.

Antarctic Rotifera; **Richters**.

CHAETOGNATHA,  
ROTIFERA and  
GASTROTRICHA.

## SUBJECT INDEX.

N.B.—For full reference go to Titles.

COMPREHENSIVE AND  
GENERAL. 1603

*Rotatoria* Jahresbericht über für 1899; **Collin**, 1.

Répartition bibliographique des Rotifères durant les dix-huit dernières années; **Beauchamp**, 1.

Rotifères; la récolte et la fixation en masse; **Beauchamp**, 3.

## STRUCTURE. 1607

Anatomy of *Conochiloides natans*; **Hlava**.

L'appareil rétro-cérébral de Rotifères; **Beauchamp**, 2.

Organe rétro-cérébral de certains Rotifères; **Marais de Beauchamp**, 4.

## 2. Marine.

Chaetognathen des Nordmeeres ;  
Broch.

Ind. Néerl. Chaetognatha ; Fowler.

## SYSTEMATIC.

## Chaetognatha.

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## Rotifera.

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*Albertia intrusor*. Scottish lochs. MURRAY, T.c. (178) pl. v, f. 24.

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*Asplanchna priodonta* var. n. *henrietta* LANGHANS, Arch. Hydrobiol., 1, (439-468) 1 Taf.

*Bdelloida* anatomy. MURRAY Edinburgh Trans. R. Soc. 45, (167).

*Brachionus furculatus* (397, pl. xiv figg. 1-3, 5) *furculatus* var. *inermis* var. n. (398, pl. xiv fig. 4) ROUSSELET London, J. R. Microsc. Soc. 1906.—*B. pala* var. *dorcas*. Bulawayo ROUSSELET. London J. R. Microsc. Soc. 1906, (401) pl. xv f. 3).

*Callidina angusticollis* var. *attenuata* var. n. (640) pl. xix fig. 9, *perforata* (640) pl. xix fig. 11, *formosa* (641) pl. xviii fig. 3, spp. n. from Sikkim Himalaya. MURRAY London J. R. Microsc. Soc., 1906.—*C. microcephala* sp. n. Forth area. MURRAY. P. Phys. Soc. Edinb. 16, (223) pl. vii f. 2.—*C. vesi-*

*cularis* sp. n. MURRAY, London, J. Quek. Microsc. Cl. 9, 1906, (259-262) pl. xviii.—*C. longiceps* sp. n. (175, pl. iii fig. 11), *habita* var. *bullata* var. n. (177, pl. iii fig. 10), *hexodonta* (174, pl. iii fig. 13), *pusilla* (175, pl. iii fig. 12), *aspera* (176, pl. iv fig. 16), *erenata* (176, pl. i fig. 4) Scottish lochs, *natans* sp. n. (186) pl. ii f. 8 pond E. Kilbride. MURRAY, Edinburgh, Trans. R. Soc. 45.

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*Conochiloides natans*. Anatomy. HLAVA Zs. wiss. Zool. 84, (282-326) Taf. xvii-xviii.

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*Megalotrocha alboflavicans* formation of colonies. SURFACE Biol. Bull. 11 (182-192).

*Microdinadac* systematic position, *Microdina paradoxa* Scottish lochs (170) pl. iv. fig. 17, MURRAY, Edinburgh, Trans. R. Soc. 45.

*Notommata pumila* sp. n. Scottish lochs. ROUSSELET, Edinburgh Trans. R. Soc. 45, (183), pl. vi. f. 25.

*Philodina indica* (638, pl. xviii fig. 1.) *squamosa* (639, pl. xviii fig. 2.) spp. n. from Sikkim Himalaya. MURRAY, London J. R. Microsc. Soc. 1906.—*P. flaviceps*, (172, pl. i. fig. i.) *hamata* (173, pl. ii. fig. 7) spp. n. *brevipes* (171, pl. i. fig. 2) *autenticornis* (172, pl. i. fig. 3, pl. ii. fig. 9) *laticeps* (172). Scottish lochs. MURRAY, Edinburgh Trans. R. Soc. 45.

*Proales daphnicola*. Scottish lochs. MURRAY, T.c. (179) pl. vi f. 26.

*Pseudoecistes rotifer*, Scottish lochs. MURRAY, T.c. (166) pl. v. f. 18.

*Rotifer triseatus* (177), pl. v. f. 20, *socialis* (177) pl. iv. f. 15. Scottish lochs. MURRAY, T.c.

*Stephanops tenellus*, Scottish lochs. (181) pl. v f. 19. MURRAY, T.c.

*Tetramastix opoliensis*. Matoppo Hills, ROUSSELET. London J. R. Microsc. Soc. 1906, (402), pl. xv f. 2.

### Gastrotricha.

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### ANNELIDA, etc., etc.

#### SUBJECT INDEX.

#### COMPREHENSIVE AND GENERAL. 1803

A new method of collecting earth-worms for laboratory use; Hargitt, Science, 23, (470).

#### STRUCTURE. 1807

Anatomy of *Ichthyotomus sanguinarius*; Eisig.

Morphologie von *Polygordius*; Hempelmann.

Morphologie et anatomie comparée des Sipunculides; Hérubel 1, 3, and 7.

*Acanthobdella peledina*; Livanow.

Struttura di larve di Sipunculidi; Senna.

Anatomy and histology of *Rhabdopleura normanii*; Schepotieff, 1.

Anatomy of *Cephalodiscus gilchristi*; Ridewood.

Hautsinnesorgane bei Rhynchobdelliden; Mayer, Wilhelm.

Histology of *Branchellion*; Pérez.

(N-9720 o)

Productions tégumentaires des Sipunculides; Hérubel, 8.

Epidermal organs in *Phascolosoma gouldii*; Nickerson.

Organes segmentaires des Polychètes; Fage.

(Organe nuchal et organe externe anexe des néphridies chez le Chétopère; Gravier, 9, 10.)

Homologie von Cirrus und Elytron bei den Aphroditiden; Duncker.

Nervous system and nephridia of *Dinophilus*; Nelson, J. A., Science, 24, (298).

Vorderdarm des *Polygordius* und des *Saccocirrus*; Salensky.

Solenocytes in nephridia of *Dinophilus*; Shearer, (1).

Morphologie der Segmentalorgane des Regenwurms; Szilts.

Structure of nephridia of *Acolosoma* and *Mesenchytraeus*; Vejnovsky, 1.

Il cloragogo tipico degli Oligocheti; Rosa, 5.

Nefridii con sbocco intestinale comune dell' *Allolobophora antipae*; Rosa, 4.

Beitrag zur Hamocöltheorie; Vejnovsky, 2.

Gefäßsystems der *Piscicola*; Salensky.

Vaisseaux sanguins du *Sipunculus nudus*; Enriques.

Le liquide coelomique de *Sipunculus nudus*; Ladreyt.

Ghiandole ermafroditiche negli Oligocheti; Cognetti de Martiis, 8.

Encheitride ad ampolla spermatocaleunica; Issel, 1.

Sexorgans in *Acolosoma*; Nelson, 1.

Geschlechtsverhältnisse und die Geschlechtsorgane von *Lumbriculus variegatus*; Mrasek, 2.

#### PHYSIOLOGY. 1811

Physiologie et biostatique des Sipunculides; Hérubel, 1.

Sex determination, *Dinophilus*; Conklin.

Geschlechtsbestimmende Einflüsse des *Dinophilus apatris*; Malsen.

Physiologie der Segmentalorgane des Regenwurms; **Szűts.**

Blutgerinnung mit Berücksichtigung der Hirudinen-wirkung; **Schittenheim u. Bordong.**

*Icthyotomus*: autotomie, ein auf das Blutwirkende anticoagulirend Sekret: **Eisig.**

Vaisseaux sanguins du *Sipunculus mdus*; **Enriques.**

Magnesian carbonate content of serpulid shells; **Nichols, H. W.**

Lebensdauer der Lumbriciden; **Korschelt.**

Attitudes et mouvements des Annelides; **Bohn.**

Locomotion of the Annelids; **Eisig.**

Reactions of earthworms to salts; **Parker and Metcalf.**

Experiments on behavior of tubicolous annelids; **Hargitt.**

Modifiability of behavior in *Hydroides dianthus*; **Yerkes.**

Factors determining movement in the earthworm; **Jennings.**

(Hermaphroditism in *Sabella*; **Gregory.**)

Regeneration *vide* Development.

## DEVELOPMENT. 1815

Of *Mitraria*; **Cialona.**

Développement dans les reproductions sexuelles et asexuelles des Salmacines et des Filogranes; **Malaquin, 2.**

Actinotrochen der norwegischen Fjorde; **Schepotieff, 2.**

Sviluppo del *Protodrilus* e del *Saccocirrus*; **Pierantoni, 6.**

Sviluppo embrionale e larvale del *Saccocirrus papilloceus*; **Pierantoni, 5.**

Development of *Phascolosoma*; **Gerould.**

Gestazione esterna della *Pionosyllis pulligera*; **Pierantoni, 1.**

Oogenesis and spermatogenesis of *Branchiobdella*; **Smallwood.**

(Maturation *Allolobophora foetida*; **Foot and Strobell.**)

Reifung der Geschlechtszellen von *Ophryotrocha puerilis*; **Schreiner.**

The cytogeny of *Podarke obscura*; **Treadwell.**

Eibildung des *Dinophilus apatris*; **Malsen.**

Spermatogenése beim *Lumbricus terrestris*; **Depdolla.**

Spermatogenese du *Lumbricus agricola*; **Bugnion et Popoff.**

*Saccocirrus*. Eibildung, Eireifung und Befruchtung; **Hempelmann, 2.**

Fécondation chez la Serpule; **Soulier.**

Parthenogenetic development of *Amphitrite*; **Scott.**

Artificial Parthenogenesis in *Thalassena*; **Lefevre.**

Cell communications between blastomeres in *Euponatus* and *Polygordius*; **Shearer, 2.**

Elementary phenomena of embryonic development in *Chaetopterus*; **Lillie.**

Zweiter Beitrag zur Hämocöltheorie; **Vejdovsky.**

Development of larval nephridia in *Phoronis*; **Shearer, 3.**

Development of nephridia in *Dinophilus*; **Shearer, 1.**

Prétendu cas de bourgeonnement chez *Anisocirrus*; **Gravier, 6.**

Collateral budding in *Trypanosyllis misakiensis*; **Izuka, 1, 2.**

Scissiparité génitale des Chétoptères; **Jourdain.**

La forme hétéronéréidienne de *Nereis fucata*; **Giard.**

(*Heteronereis* stage of *Nereis kobienensis*; **Treadwell, 3.**)

Regeneration in *Ampbiglena*; **Driesch. Spirographis spallanzanii**; **Ivanow.**

Regeneration in *Spirographis spallanzani*; **Orlandi.**

Die Regeneration der Segmente bei den Polychäten; **Ivanow.**

Regeneration in *Potamilla*; **Watson.**

Regeneration of double tentacles in *Nereis dumercillii*; **Byrnes.**

Regeneration in *Allolobophora*; **Morgan, 2.**

## ETHOLOGY. 1819

## HABITS.

Similarity between tubes of worms and ammonites of Senonian; **Boule and Therenen**, Paris, Ann. Paléont. 2 (53).

*Taenurus* probable burrow of polychaetous annelid; **Sarle**, 2.

*Arthropycus* and *Daedalus* of burrow origin; **Sarle**, 1.

Relations of boring Polychaets and oysters; **Guerin**.

Oekologie des *Tubifex* und *Lumbriculus*; **Wagner**.

Habits of tube-building worms; **Watson**, Nature 74 (562).

Schlammkulturen und eigentümliche Schlammgebilde durch *Lumbriculus*; **Klunzinger**.

## PARASITISM.

Ueber lebende Hirudineen im Bindehautsack des menschlichen Auges; **Kuwahara**.

Sangsues parasites des Palmipèdes; **Méguin**.

Zwei Fälle von Blutegehn in der Trachea; **Tsakyrogious**.

*Ichthyotomus sanguinarius*, eine auf Aalen schmarotzende Annelide; Parasitism in the Polychaeta; **Eisig**.

(*Myxostoma*, parasite of starfish; **Wheeler**.)

Mode de transmission des Trypanosomes par les Hirudinées; **Brumpt**, 1, 2, 3.

*Myxocystis* parasite de *Pheretima*; **Hesse**.

Sporozoaire parasite des *Scotoplos armiger*; **Brasil**, 2.

Grégarines parasitic in *Lumbricus herculeus*; **Brasil**, 1.

Polychaeta, protozoan parasites; **St. Joseph**.

*Travisia* parasitised by *Haplozoon*; **Dogiel**.

Copépode ectoparasite de *Nereis Dumerilii*; **Malaquin**, 1.

## DISTRIBUTION. 1827

## 1. Terrestrial.

## Europe.

Lumbriciden - Fauna Ostpreussen; **Collin**, 2.

Naididen Kurischen Nehrung; **Thienemann, J.**, 1.

Lumbricidi dell' Europe orientale; **Cognetti de Martiis** 3.

Montenegro Hirudinea; **Blanchard**.

Bologje Susswasser - Oligochéten - Fauna; **Plotnikov** 1.

Ligurian Lumbricidae; **Cognetti de Martiis**, 10.

I. Elba Enchitreidi; **Issel**, 2.

## Asia.

India, *Chaetogaster* sp. n.; **Annandale**.

## North America.

Cedar Point, Ohio, *Naididae*, 7 spp. n.; **Walton**.

Great lakes region. Hirudinea and Oligochaeta; **Moore**, 3.

## Africa.

Tanganyika, Oligochaeta, 4 spp. n.; **Beddard**.

Lombrichi di Madagascar e dell' isola Riunione; 2 spp. n., **Cognetti de Martiis**, 6.

Megascolecidi africani dal Ruwenzori; **Cognetti de Martiis**, 5.

Oligocheti della Regione Neotropica; **Cognetti de Martiis**, 9.

## Australasia and Antarctic.

Notes on New Zealand Earthworms; **Benham**, 1.

Earthworms from Little Barrier Island, New Zealand; **Benham**, 2.

Antarctic Oligochaets, 2 spp. n.; **Michaelsen**.

Antarctic oligochaets; **Richters**.

**Atlantic.**

Canary Islands Oligochaeta Drilofauna; **Cognetti de Martiis, 1.**

**2. Marine.**

Distribution des Sipunculides; **Herubel, 5.**

Polychètes de France (Océan et côtes de Provence); **Saint-Joseph, de.**

Priapulides des côtes occidentales de la Scandinavie; **Hézubel, 6.**

Arctic Priapulids and Echiurids; **Théel.**

Norwegian fjords, Actinotrocha; **Schepotieff, 2.**

Sargasses, Annélides de la mer des; Prince Albert de Monaco, C.-R. Acad. Sci., **143 (622).**

Geographical distribution of *Rhabdopleura*; **Schepotieff, 1.**

West Indian Islands; **Augener**; Polychaeta dredged by the "Blake," 20 spp. n. 3 var. n.; St. Vincent *Myzostoma*, 1 sp. n.; **Reichensperger.**

**Indo-Pacific.**

Mer Rouge affinités de la faune annélienne; **Gravier, 2.**

Mer Rouge les Annélides polychètes (Sabellides); **Gravier, 1.**

Faune annélienne de la mer Rouge et ses affinités; **Gravier, 1.**

La mer Rouge Annélides Polychètes; **Gravier, 5.**

Indian Ocean. *Owenia fusiformis* et sa distribution géographique; **Gravier, 4.**

Polychaeta of the Maldives and Laccadives; **Gardiner**, Fauna Maldives and Laccadives, 2, supp. ii, 1906, (1048).

Hawaiian islands. Albatross collections Polychaeta 26 spp. n.; **Treadwell.**

Japan. Myzostomes of "Albatross" expedition, 8 spp. n., 1 var. n.; **McClendon.**

(North Pacific. New species *Ampharetidae* and *Terebellidae*; **Moore, 4.**)

Alaska. 2 spp. n.; **Moore, 2.**

Monterey bay, California; (*Actinotrocha*); **Spaulding.**

North Pacific. New species of *Polychaeta*; **Moore, 1.**

**Antarctic.**

Sipunculides de l'Expédition Charcot; **Hérubel, 2.**

Antarctique. L'Expédition française; **Gravier, 3.**

**3. Geological.**

Silurian of Ludlow. Worm fauna; **Elles and Slater.**

Vermes of the Salem limestone; **Beede.**

List of Vermes from Devonian of Western New York; **Slocum.**

*Serpulites* from Carboniferous of Ronken Glen, Glasgow; **Macnair.**

*Serpula* in Neocomian of Schaumburg-Lippe; **Harbert.**

*Serpula* in Tertiary sands of Cserhát; **Noszky.**

*Serpula* in Tertiary of Budapest Ráko; **Vadász.**

Polychaeta from Miocene of Turin; **Bellini.**

Fossil Polychaeta from Post-pliocene of Salustro; **Scalia.**

†Patagonia. Annelida from sedimentary deposits; **Ameghino**, Buenos Aires, An. Mus., Ser. 3a, **8**, 1906, (57).

Annelid (? Polychaet) from Pleistocene terraces and strandlines of Norway; **Rekstad.**

**SYSTEMATIC.****(1) Archiannelida.**

*Dinophilus* sp. Oogenesis and sex determination **CONKLIN Science 24 (294)**; *D. taeniatus*, Structure of nephridia presence of solenocytes. **SHEARER, Q. J. Microsc. Sci., London, 49, 1906, (517-545) pl. xxix-xxx. D. apatris** Geschlechtsbestimmende Einflüsse, Eibildung. **MALSEN, Arch. mikr. Anat., 69, (63-99), 1 Taf.**

*Polygordius* Cell communications between blastomeres. SHEARER London Proc. R. Soc. ser B, 77 (498-505), pl. xviii fig. 8.—*P. lateus* (531) T. XXV-XXIX *triestinus* sp. n. Triest, morphologie (605) T. XXIX figg. 57-58 HEMPELMANN, Zs. wiss. Zool. 84.—*P. neapolitanus* structure of foregut. SALENSKY Biol. Centralbl. 26 (199-204).

*Protodrilus flavocapitatus* Naples. Development. PIERANTONI Mitt. zool. Stat. Neapel 17 (515).

*Saccocirrus* development. PIERANTONI T.c. (519); Eibildung, Eireifung u Befruchtung. HEMPELMANN, Zool. Anz., 30, (775-784). — *Saccocirrus papillocerus* sviluppo embrionale e larvale. PIERANTONI, Mitt. zool. Stat. Neapel, (46-72), Taf. iii-iv; structure of foregut. SALENSKY Biol. Centralbl. 26 (199-204).

## (2) Polychaeta.

Polychaeta of the Red Sea. GRAVIER Nouv. Arch. Muséum, 8 (123-272) pl. i-vii. [Full descriptions of new species already notified in Bull. Mus. Paris, 1905, are given here]; affinités, Bul. Muséum, Paris, 12, (149-154); GRAVIER (Sabellides) de la mer Rouge, T.c. (33-34, 110-115).

Polychètes recueillies par l'Expédition antarctique française (Syllidiens, Hésoniens, Phyllocociens, Néréidiens, Euni-ciens), GRAVIER T.c. (283-290, 386-391).

Polychètes des côtes de France. SAINT-JOSEPH, de. Ann. sci. nat., zool., 3, (145-260) pl. i-v.

Westindische polychaeten. AUGENER. Cambridge, Mass., Bull. Mus. Comp. Zool. Harvard Coll., 43, (91-196) 8 pls.

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*Mitraria* sviluppo CIALONA, Roma, Ric. Lab. anat. norm., 10, (257-261), 10 fig.

## NEREIDIFORMIA.

*Aphroditiden*. Homologie von Cirrus und Elytron DUNCKER, Zs. wiss. Zool., 81, (191-343), T. xi.

*Arabella iridescens* (1171), *A. attenuata* (1172), spp. n., Hawaiian Is., TREADWELL, Washington, Bull. U. S. Fish Com., 23.

*Autolytus charcoti* sp. n. GRAVIER, Bul. Mus. Paris 12, (283).

*Castalia hesionoides* sp. n. West Indies. AUGENER, Cambridge, Mass., Bull. Mus. Comp. Zool. Harvard Coll., 43, (155) pl. vi figg. 106-109.—*C. oculata* sp. n., Hawaiian Is., TREADWELL, Washington, Bull. U. S. Fish. Com. 23 (1148).

*Ceratonereis punctata* sp. n. Cannes, description. ST. JOSEPH Ann. sci. nat. 3, (219-221) pls. iv-v, figg. 90-95.

*Chloecia flava*. Colombo. WILLEY. Spolia. Zeylan, 3, (222-224).

*Diopatra spiribranchii* sp. n. West Indies. AUGENER. Cambridge, Mass., Bull. Mus. Comp. Zool. Harvard, 43 (145) pl. v. figg. 88-96.

*Eteone reyi* sp. n. Antarctique. GRAVIER, Bul. Mus., Paris, 12 (389).

*Eulalia quadriculata* (220, pl. x figg. 4-6), *longicornuta* (222, pl. x figg. 7-8) spp. n. from North Pacific. MOORE, Philadelphia, Proc. Acad. 68.

*Eunice collini* sp. n. West Indies. AUGENER, Cambridge, Bull. Mus. Harvard, 43 (133) pl. iv figg. 66-73.—*E. hawaiiensis* (1166), *interrupta* (1167), *bilobata* (1168), *nicidioformis* (1169) spp. nn., Hawaiian Is., TREADWELL, Washington, Bull. U. S. Fish Com., 23.

*Eupanthalis oahuensis* sp. n., Hawaiian Is., TREADWELL, Washington T.c. (1155).

*Exogone turqueti* sp. n. Antarctique. GRAVIER, Bul. Mus., Paris, 12 (285).

(*Glycera edwardsi* sp. n. Mer Rouge. GRAVIER, Nouv. arch. Muséum 8.)

(*Glycinde bonhourei*, Mer Rouge *maskallensis*, spp. n. GRAVIER T.c. 8.)

*Goniada brumea* sp. n., Hawaiian Is., TREADWELL, Washington, Bull. U. S. Fish Com., 23, (1174).—*G. emerita*. St. Jean de Luz, description. ST. JOSEPH Ann. Sci. nat. 3, (162-164) pl. ii figg. 34-36.—*G. var. quinquelabiata* var. n. West Indies. AUGENER, Cambridge, Bull. Mus. Harvard 43 (158).

*Harmothoe syntactae* sp. n. St. Jean de Luz. ST. JOSEPH Ann. Sci. nat. 3, (147) pl. i figg. 1-6).—*H. tuberculata* sp. n., Hawaiian Is., TREADWELL, Washington Bull. U. S. Fish Com., 23, (1154).

*Hermodice pennata* sp. n., Hawaiian Is., TREADWELL, T.c. (1165).

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*Lagisca floccosa* var. *unidentata* var. n. AUGENER, T.c. (125).

*Lepidonotus citrifrons* sp. n. West Indies. AUGENER, T.c. (113) pl. ii figg. 31-38 iii figg. 39-40.

*Lumbriconereis grandis* (1170), *minuta* (1171), spp. n., Hawaiian Is., TREADWELL, Washington Bull. U. S. Fish Com. 23.

*Nemidia antillicola* sp. n. West Indies. AUGENER, Cambridge Bull. Mus. Harvard 43 (126) pl. iii figg. 53-59.

(*Nephthys palati* sp. n. Mer Rouge. GRAVIER, Nouv. arch. Muséum 8.)

*Nereis bicrucciata* sp. n. West Indies. AUGENER, Cambridge Bull. Mus. Harvard 43 (151) pl. v. figg. 102-104, vi fig. 105.—*N. dumerilii* regeneration. BYRNES, Arch. Entw-Mechl., 21, (126-129).—*N. fucata* forme hétéronéréidienne. Feuille jeunes natural., Paris, 36, (11-12).—(*N. kubiensis* heteronereis stage. TREADWELL, Biol. Bull. 9 (226-231).); heteronereid phase. TREADWELL, Washington Bull. U. S. Fish. Com. 23, (1161).—*N. pelagica*, female heteronereid. McINTOSH, Ann. Mag. Nat. Hist. 17 (72-73).—*N. rubicunda* Cannes, St. JOSEPH, Ann. sci. nat. 3 (216) pl. iv, figg. 83-89).

*Onuphis rubescens* sp. n. West Indies. AUGENER, Cambridge, Bull. Mus. Harvard 43 (139) pl. iv, figg. 76-83.

*Ophryotrocha puerilis* Reifung der Geschlechtszellen. SCHREINER, Anat. Anz., 29, (465-479).

*Orseis mathai* sp. n. Antarctique. GRAVIER, Bul. Mus. Paris, 12 (386).

*Phyllococe nana* sp. n. Cannes. St. JOSEPH, Ann. sci. nat. 3, (223) pl. v, figg. 96-98.

*Pionosyllis comosa* sp. n. Antarctique. GRAVIER, Bul. Mus. Paris, 12 (288).—*P. magnifica* sp. n. MOORE, Philadelphia Proc. Acad. 58 (223) pl. x, figg. 9-11.—*P. pulligera*: gestazione externa. PIERANTONI, Napoli, Annuario Mus. zool. Univ., 2 (1-2) 1 tav.

*Polynoe alba* (1149), *lucida* (1150), *spicula* (1151), *mutilata*. (1152), spp. n., Hawaiian Is., TREADWELL, Washington, Bull. U. S. Fish. Com. 23.

*Polynoella pachylepis* sp. n. West Indies. AUGENER, Cambridge, Bull. Mus. Harvard 43 (120) pl. iii, figg. 43-52.

*Pontogenia maggiae* sp. n. Montserrat. AUGENER, T.c. (103) pl. i, figg. 8-15.—*P. chrysocoma*. Cannes, description. St. JOSEPH, Ann. sci. nat. 3 (189-193), pl. iii, figg. 58-68.

*Psammolyce arenosa*. St. Jean de Luz, description, DE SAINT JOSEPH, T.c. (150-159) pl. i-ii, figg. 7-31).—*P. floccifera* sp. n. West Indies. AUGENER, Cambridge Bull. Mus. Harvard 43 (109) pl. ii, fig. 24-30.

*Scoloplos armiger* sporozoan parasite. BRASIL. Arch. zool., 4, notes et Revue. (xvii-xxii).

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*Stauronereis annulatus* sp. n. N. Pacific. MOORE, Philadelphia Proc. Acad. 58 (225) pl. x, figg. 12-13, figg. 18-22.

*Sthenelais gracilior* sp. n. Off Barbados. AUGENER, Cambridge Bull. Mus. Harvard 43 (107) pl. i, fig. 18, ii, figg. 19-23.

*Syllis quaternaris* sp. n. Alaska, MOORE, Philadelphia Proc. Acad. 58 (352).

*Trypanosyllis misakiensis* sp. n. IZUKA, Annot. Zool. Jap., 5, (283-287); collateral budding. Dobuts. Z., Tokyo, 18, (1-5).

*Vanadis minuta* (1158) *fusca*, *punctata* (1159) spp. n., Hawaiian Is., TREADWELL, Washington Bull. U. S. Fish Com. (23).

#### SPIONIFORMIA.

*Chétoptériens*. GRAVIER, Organe nuchal Paris Bull. franç. avanc. sci., 1904, (260-261), Paris, C.-R. ass. franç. avanc. sci., 33, (784-785).—Organe externe annexe des néphridies. GRAVIER, Paris, C.-R. ass. franç. avanc. sci., 33, (785-787), et Bull. ass. franç. avanc. sci., 1904, (261).

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*pergamencaeus* embryonic development. LILLE, J. Exp. Zool., **3**, (153-268) 1 pl.—(*C. variopedatus* Renier var. *djiboutiensis* var. n. Mer Rouge. GRAVIER, Nouv. arch. Muséum, 8.)

(*Magelona obockensis* sp. n. GRAVIER, T.c.)

*Nerine cirratulus* regeneration. IVANORO. Zs. wiss. Zool. **85**, (1-47) Taf. i-iii.—(*N. lefevrei* sp. n. GRAVIER, Nouv. arch. Muséum, 8.)

*Owenia fusiformis* Madagascar distribution géographique. GRAVIER, Bul. Muséum, Paris, **12**, (294-296).

(*Telesavus bonhourei* sp. n. Mer Rouge. GRAVIER, Nouv. arch. Muséum, 8).

#### TEREBELLIFORMIA.

(*Amphicleis alaskensis, glabra* sp. n. N. Pacific. MOORE, Philadelphia Proc. Acad. **57**, (846-851).—*A. scaphobranchiata* sp. n. N. Pacific. MOORE, Philadelphia, Pa., Proc. Acad. Nat. Sci., **58**, (255, pl. xii figg. 54-61).

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*Aponobranchius* gen. n. *perrieri* sp. n. Mer Rouge. GRAVIER, T.c. (232) pl. v. figg. 239-242.

*Amphitrite* sp. parthenogenetic development. SCOTT, J. Exp. Zool., **3**, (49-98) pl. i-iv).

(*Armandia melanura* sp. n. Mer Rouge. GRAVIER, Nouv. arch. Muséum **8**).

(*Artacama conifera* sp. n. N. Pacific. MOORE, Philadelphia Proc. Acad. **57**, (853).)

(*Audouinia saxatilis* sp. n. Mer Rouge. GRAVIER, Nouv. arch. Muséum (42).)

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*Nicomache carinata* sp. n. MOORE, T.c. (242) pl. xi figg. 36-39, xii, figg. 43-44.

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# VII. BRACHIOPODA AND BRYOZOA

ARRANGEMENT COMMENCED BY

A. D. IMMS,

COMPLETED BY

S. PACE AND R. M. PACE

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## (a) BRACHIOPODA

### CONTENTS

	PAGE
I. TITLES .. .. .	2
II. SUBJECT INDEX :—	
General = 2003 .. .. .	9
Structure = 2007 .. .. .	9
Physiology = 2011 .. .. .	9
Development = 2015.. .. .	9
Ethology = 2019 .. .. .	9
Variation and <i>Æ</i> tiology = 2023 .. .. .	9
Distribution = 2027 .. .. .	9
( <i>a</i> ) Recent .. .. .	9
( <i>β</i> ) Fossil .. .. .	10
III. SYSTEMATIC INDEX = 2031 .. .. .	13

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## II.—SUBJECT INDEX.

N.B.—For full Reference go to Titles.

### GENERAL. 2003

#### Bibliography.

Publications during 1905; Mayer; Sykes & Smith.

N. American palaeontological publications, 1901-5; Weeks.

Bibliography, 1900-2; Meissner.

#### Museums.

Catalogue of type-specimens in the New York State Museum; Clarke, 2, (43-133).

Catalogue of Natal Government Museum collection; Warren.

D'Orbigny's "Prodr. Paléont. Strat. Univ." types reviewed and figured; Boule & Thevenin.

### STRUCTURE. 2007

Shell, percentage of magnesium carbonate; Nichols.

Shell of Diphyoid Terebratulids; Buckman, 1.

Shell, suggested explanation of lobation in Diphyoids; Bather in Buckman, 1.

### PHYSIOLOGY. 2011

Senescence; Shimer, 2.

### DEVELOPMENT. 2015

Ontogeny of Devonian spp. from Lake Canandaigua, N. York; Raymond, 1.

### ETHOLOGY. 2019

Association of *Sabellaria alcocki* with *Kingena alcocki*; Gravier.

### VARIATION AND AETIOLOGY. 2023

Phylogeny; Scupin.

Devonian spp. from Lake Canandaigua, N. York; Raymond, 1.

Diphyoid Terebratulacea, homocormophy; Buckman, 1.

### DISTRIBUTION. 2027

(a) RECENT.

#### General.

Collections of the "Valdivia" and "Gauss" expeditions; *Chlidonophora*, *Liothyrina*, *Macandrevia*, *Magellania*, *Terebratella*, spp. n.; Blochmann.

#### Europe.

Ireland, fauna of W. Coast; Sykes.

Mediterranean, French spp.; Granger.

#### N. America.

Canada, fauna of Anticosti I.; Schmitt.

#### Australasia.

Queensland, fauna of Masthead Reef; Hedley, 2.

New South Wales, *Campages* gen. et sp. n., *Hemithyris* sp. n.; Hedley, 1.

New South Wales, occurrence of *Liothyrina uva*, Brod. at Twofold Bay; Ehlert.

N. Hebrides, occurrence of *Thecidea maxilla*, Hedley; Hedley, 1.

**Atlantic.**

Occurrence of *Liothyrina uva*, Brod.  
off Buenos Ayres; **Øhlert**.

**Indian Ocean.**

*Kingena*, sp. n.; **Joubin**.

**Antarctic.**

Heard I., occurrence of *Liothyrina uva*, Brod.; **Øhlert**.

(β) Fossil.

**General.**

England, lists of fossils from Cornwall; **Cornish**.

England, few fossils from Cornwall; **Green & Sherborn**.

England, lists of fossils from Cheshire; **Pocock**.

Austria, fossils from Salzburg; **Fugger, 2**.

Amboyna, late Palaeozoic or early Mesozoic fossils; *Athyris*, *Dielasma*, *Rhynchopora*, *Spiriferina*, *Waldheimia*, spp. n.; **Boehm in Verbeek**.

Madagascar, fossils; **Lemoine**.

Madagascar, fossils; **Thevenin, 1, 2**.

Canada, fossils from Beechey I., Lancaster Id., and Cape Chidley; **Low**.

United States, fossils from Bighorn Mts., Wyoming; **Darton**.

**Cainozoic.**

Japan, Post-Pliocene (or Pliocene) fauna of Tokyo, *Waldheimia*, sp. n.; **Tokunaga**.

**Post-Tertiary.**

Norway, fossils from E. Nedencø; **Danielsen**.

**Tertiary.**

France, Miocene spp. from Gourbesville, Manche; **Dollfus**.

Spain, fossils from the Plana de Viel, Catalonia; **Almera, 1, 2**.

Italy, fauna of the Piedmont basin; **Sacco**.

San Marino, fossils; **Nelli**.

Galicia, Sarmatian fauna of Tarnobrzeg; **Friedberg**.

Carinthia, Eocene fossils; **Redlich**.

Patagonia, fauna; **Ameghino**.

**Mesozoic.**

Diphyoid group of Terebratulæ; **Buckman, 1**.

England, Liassic and Cretaceous fossils from the neighbourhood of Sidmouth and Lyme Regis; **Woodward & Ussher**.

Italy, fossils from Lake Garda, Lombardy; **Prinz**.

Switzerland, fossils from the Oberengadin; **Zoeppritz**.

Hungary, palaeontology of the Gerece-Gebirge; **Staff**.

Transylvania, lists of fossils; **Koch**.

Montenegro, few fossils; **Martelli, 1**.

S. America, fossils from the Peruvian Andes; **Burckhardt**.

**Cretaceous.**

Germany, fauna of Schaumburg-Lippe; **Harbort**.

Germany, fossils from Münster Wegner.

Germany, fossils from near Brunswick; **Wollemann**.

England, few fossils from Norfolk; **Brydone**.

England, Upper Cretaceous fossils from the London Basin; **Treacher & White**.

England, fossils from the Phosphatic Chalk of Berkshire; **White & Treacher**.

France, Lower Campanian fauna of S.E. district; **Repelin**.

Switzerland, Gault fossils from the Engelberg valley; **Jacob & Tobler**.

Austria, fossils from Golling; **Fugger, 1**.

Hungary, fauna of the Peterwardcin Mts.; **Pethő**.



Silesia, fauna of the Grodischter Schichten; *Rhynchonella*, sp. n.; **Archer**.

Galicia, fossils from the 'Spasser Schiefer'; **Wisniowski**.

Bohemia, fossils from the Iser district; **Zahálka**.

Carinthia, fossils; **Redlich**.

Africa, fauna of Tripoli; *Crania* sp. n.; **Krumbeck**.

Patagonia, Upper Cretaceous fauna; **Ameghino**.

### Jurassic.

Terebratulacea of the *Virgatites virgatus* and *Oxynoticeras catenulatus* beds; *Zeilleria*, spp. n.; **Lehmann**.

Germany, fossils from the Bayerische Wald; **Wanderer**.

Bavaria, fossils from the Oberpfalz; **Reuter**.

Bavaria, Liassic fossils; **Renz**.

England, Upper Liassic fossils from Stroud, Gloucestershire; **Upton**.

Franco, Toarcian fossils from Macon; **Lissajous, 1**.

France, Bajocian and Bathonian fossils from Mâcon; **Lissajous, 2**.

Italy, Lower Lias, Spezia, occurrence of *Pygope aspasia*; **Fucini**.

Italy, Lower Liassic fossils from Perugia; **Merciai**.

Italy, Liassic fauna of Sospirolo; *Rhynchonella*, *Spiriferina*, *Terebratula*, *Waldheimia*, spp. n.; other spp. figd.; **Piaz**.

Moravia, Portlandian fossils from boulders of the "Stramberger Kalkstein" at Rychaltitz; **Remeš, 1, 2**.

Roumania, fauna of Hârsova; **Macovei**.

E. Morocco, fauna; **Gentil & Lemoine**

### Triassic.

Montenegro, fauna of the Upper Muschelkalk; *Rhynchonella*, sp. n.; **Martelli, 2**.

### Palæozoic.

Catalogue of type-specimens in the New York State Museum; **Clarke, 2**, (13-133).

Fossils associated with *Reticularia laevis*, **Kindle, 1**.

Comparison of Russian, Indian and American Permian and Carboniferous faunas; **Schuchert**.

Sweden, few fossils from Falköping; **Munthe, 1**.

Sweden, fossils from Tidaholm; **Munthe, 2**.

Russia, fossils from Podolia, some new names without description; **Siemiradzki, 1**.

Russia, fauna of Podolia; **Siemiradzky, 2**.

Russia, fauna of Podolia; *Orthis*, *Strophomena*, *Waldheimia*, spp. n.; **Siemiradzky, 3**.

Italy, fauna of the Col Mezzodi, Carnian Alps; *Notothyris*, *Rhynchonella*, *Terebratula*, spp. n.; **Gortani**.

China, fossils from Shantung; **Lorenz**.

S. Africa, fossils; *Reusscleria*, *Trigeria*, spp. n.; **Schwarz, 2**.

Canada, fossils from James Bay region, Ontario; **Wilson**.

United States, upper Silurian and lower Devonian faunas, Orange County, N. York; *Coelospira*, sp. n.; **Shimer, 1**.

United States, fossils from Eastern New York; **Hartnagel**.

United States, lists of spp. from the Schoharie Valley, N. York; **Grabau**.

S. America, Silurian and Devonian fossils from the lower Amazon region; **Schuchert, 2**.

Australia, fossils from Fossil Head, Northern Territory, S. Austr., *Ortholetes*, sp. n.; **Etheridge**.

### Permian.

Italy, fauna of the Bellerophonkalk of Cadore; *Ombonia*, gen. n.; **Caneva**.

Cashmere, occurrence of *Productus purdoni* Dav.; **Koken**.

**Carboniferous.**

Belgium, fossils from Baudour; **Cornet, 2.**

Belgium, fossils from Mons; **Cornet, 1.**

Belgium, fossils from Petit-Modave; **Destinez, 2.**

British Is., lists of fossils from North Shropshire, Denbighshire and Flintshire; **Hind & Stobbs.**

England, fossils from Craven district; **Wilmore.**

England, fauna of the Cheadle coal-field; **Ward.**

England, Lower Carboniferous fossils from Cannock-Chase; **Cockin.**

England, Avonian fauna of the Avon Gorge; notes on Carboniferous genera; **Vaughan, 2.**

England, Avonian fauna of the Mendip area; **Sibley, 2.**

England, few fossils from Ingleton, Yorks; **Vaughan in Johns.**

England, fossils from Pateley Bridge; **Vaughan, 3.**

England, fauna of Burrington Combe, Somerset; **Sibley, 1.**

Wales, fossils from South-west Gower; **Vaughan, 1.**

Scotland, fossils from near Glasgow; **Macnair.**

Ireland, fossils from Rush, co. Dublin; **Matley & Vaughan in Matley.**

Fauna of the Carnian Alps; *Meekella*, *Orthothetes*, spp. n.; **Vinassa de Regni & Gortani.**

Hungary, fauna; **Frech.**

China, Upper Carboniferous fauna of southern Tian-Shan; *Enteleletes*, spp. n.; **Keidel.**

United States, fauna of the Kinderhook group; *Productella*, *Spirifer*, spp. n.; **Weller, 1.**

United States, fauna of the Glen Park Limestone, St. Louis, Mo.; **Weller, 2.**

**Devonian.**

Fauna of the Eastern Alps; **Scupin.**

Belgium, Fammenian fauna of Condroz; **Destinez, 1.**

England, fossils from St. Minver, Cornwall; **Fox.**

Occurrence of *Rhynchonella ascendens* near Čelechovic; **Smyčka.**

Africa, fossils from the Sahara; *Spirifer*, sp. n.; **Haug.**

S. Africa, fossils; **Schwarz, 1.**

S. Africa, few fossils from the Bokkeveld Beds; *Ptychospira*, *Scaphicalia*, spp. n.; **Reed.**

United States, list of fossils from New York; **Slocum.**

United States, fauna of Percé, New York; many nomina nuda; **Clarke, 3.**

United States, fauna of the Moscow Shales at Lake Canandaigua, N. York; **Raymond, 1.**

United States, Oriskany fauna Becroft Mt., New York; *Brachyprion*, *Chonetes*, *Cryptonella*, *Cyrtina*, *Leptostrophia*, *Meristella*, *Oriskania*, *Orthothetes*, spp. n.; **Clarke, 1.**

United States, fossils from near Altoona, Pa.; **Kindle, 2.**

Falkland Is., fossils; **Newton.**

**Silurian.**

Russia, fauna; *Orthis*, *Plectella* (gen. n.) spp. n.; **Lamansky.**

England, fossils from the Ludlow district; **Elles & Slater.**

Bohemia, fossils; **Želizko, 1.**

Bohemia, fossils from near Rosenthal; **Želizko, 2.**

Canada, Upper Silurian fauna, Ekwan River and Sutton Mill Lakes, Keewatin, Ottawa; *Glossia*, *Camarotoechia*; *Reticularia*, *Meristina*, spp. n.; **Whiteaves, 1.**

Canada, fauna of Guelph formation of Ontario; **Whiteaves, 3.**

Canada, fauna of Manitoba; *Camarotoechia*, *Rhynchospira*, spp. n.; **Whiteaves, 2.**

Canada, fauna of Anticosti I.; **Schmitt.**

United States, fauna of Guelph formation, New York; *Monomerella* sp. n.; **Clarke & Ruedemann.**

United States, fossils from the Chazy Limestone of Lake Champlain; **Hudson.**

## Ordovician.

Wales, fossils from Western Caer-marthenshire; **Evans**.

Canada, fossils from Eastern Ontario; **Ami**.

Canada, fossils from the Ottawa Valley; **Ells**.

United States, fauna of the Chazy Limestone; **Raymond**, 2.

United States, fossils from the Chazy formation, Champlain Valley, Vermont; *Lingula* sp. n.; **Seely**.

United States, fauna of St. Albans, Vermont; **Edson**.

United States, fossils from the Arnheim and Waynesville Beds; **Foerste**.

## Cambrian.

China, fauna; **Walcott**, 1.

China, fauna; *Discinopsis*, *Orthis*, *Yorkia*, spp. n.; **Walcott**, 2.

United States, fossils from the Pioche Mountains, Nevada; *Lingulella*, sp. n.; **Pack**.

fig. 4; *dilatata* fig. 5; *cor* (442) fig. 6; *angusta* fig. 7; *qucenstedti* nom. n.; cf. *triquetra* (443) fig. 9; *pileus* (444) fig. 8, **BUCKMAN**, London, Q. J. Geol. Soc., 62.

†*Argiope podolica* Palæozoic, Podolia sp. n., **STEMIRADZKI**, Wien, Beitr. Pal. Geol. OestUng. 19 (247).

†*Athyris ambonensis* Palæo- or Mesozoic, Amboyna sp. n. **BOEIJME** in **VERBEEK**, Jaarb. Mijnw. Ned. Ind., Batavia, 1905 (91-2).—*A. royssi* Davids, type of *Cleiothyridina* (q.v.).

†*Atrypa cuboides*, genotype of *Hypothyridina* (q.v.).—*A. paradoxa*, Devonian, Eastern Alps, sp. n., **SCUPIN**, Berlin, Zs. D. geol. Ges. 58 (274-6).

†*Brachyprion majus* (54-6), *schuchertanum* (56-7), Oriskany formation, New York, spp. n., **CLARKE**, Albany Univ., N.Y., Mem. St. Mus., 3, No. 3.

†*Camarotoechia coalescens* (272-3), *winskensis* (272) Silurian, Manitoba, spp. n., **WHITEAVES**, Ottawa Geol. Surv. Canada Pal. Fossils 3.—*C. kwananensis* Up. Silurian Ottawa sp. n. **WHITEAVES** Rep. Geol. Surv. Can. Ottawa 14 1904 (42 F).

*Campages*, gen. n., type *C. furcifera* sp. n. New South Wales, **HEDLEY**, Sydney Rec. Austr. Mus. 6 (43).

*Chlidonophora chuni* Malediven sp. n. **BLOCHMANN** Zool. Anz. 30 (695).

*Chonetes* subgen. n. *Eodevonaria* (q.v.)—*C. glenparkensis* Kinderhook formation St. Louis sp. n., **WELLER** St. Louis Mo. Trans. Acad. Sci. 16 (441-2).—*C. ludsonica* Oriskany formation New York sp. n. **CLARKE** Albany Univ. Mem. St. Mus. 3 No. 3 (49-50).—*C. subgibbosa* Devonian Eastern Alps sp. n. **SCUPIN** Berlin Zs. D. geol. Ges. 58 (213-4).

†*Cleiothyridina* nom. n. (= *Cleiothyris*, auctt.) genotype *Athyris royssi* Davids., **BUCKMAN** Ann. Mag. Nat. Hist. 18 (324).

†*Cleiothyris*, Phillips 1841 (= *Terebratula concentrica* series), **BUCKMAN** Ann. Mag. Nat. Hist. 18 (320-4).

*Calospira grabau* sp. n. Palæozoic New York, **SHIMER** Albany Bull. St. Mus. 80 1905 (253-4).

†*Composita*, Brown 1845 (= *Seminula*, auctt. nec M'Coy), type *Spirifer ambiguus* Sby., **BUCKMAN** Ann. Mag. Nat. Hist. 18 (324-6).

## III.—SYSTEMATIC INDEX.

2031

Types of d'Orbigny's Prodr. "Paléont. Strat. Univ." figured and reviewed; **BOULE & THEVENIN**.

Notes on the Carboniferous genera; **VAUGHAN**, 2.

Sequence of spp. in the Avonian of the Mendip area; **SIBLY**, 2.

Succession of Carboniferous spp. at Rush, Co. Dublin; **VAUGHAN** in **MATLEY**.

Terebratulacea of the *Virgatites virgatus* and *Oxynticeras catenulatus* beds reviewed; **LEHMANN**, St. Petersburg, Trav. Soc. Nat. Geol., 34, (191-221).

Terebratulida, phylogeny and taxonomy of diphyoid forms; **BUCKMAN**, 1, 2.

†*Antinomia*, developmental stages (437); *A. planulata*, pl. 41 fig. 1; *sina* fig. 2; *diphora* (441) fig. 3; sp. a

†*Crania barthi* Cretaceous, Tripoli sp. n. KRUMBECK Palaeontographica Stuttgart, 53 (92).—*C. prona* Chazy formation sp. n., RAYMOND Pittsburgh, Ann. Carnegie Mus. 3 (574-5).

†*Cryptonella* (?) *fausta*, Oriskany formation New York sp. n., CLARKE Albany Univ. Mem. St. Mus. 3 No. 3 (38-9).

†*Cyelothyris*, McCoy 1844 (= *Terebratula latissima* series), BUCKMAN Ann. Mag. Nat. Hist. 18 (326).

†*Cyrtina varia* Oriskany formation New York sp. n. CLARKE Albany Univ. Mem. St. Mus. 3 No. 3 (49).

†*Dalmanella fritschii* sp. n. Devonian, Eastern Alps SCUPIN Berlin Zs. D. geol. Ges. 58 (223)

†*Delthyris missouriensis, suborbicularis*, Kinderhook formation St. Louis spp. n., WELLER St. Louis Trans. Acad. Sci. 16 (445-7).

†*Dielasma ambonense* Paleozoic or Mesozoic Amboyna sp. n. BOEHME in VERBEEK Jaarb. Mijuw. Ned. Ind. 1905 (92).—*D. barroisi* (265), *cuneata* (263-4), *punitio* (265-6), Devonian, Eastern Alps, spp. n., SCUPIN Berlin Zs. D. geol. Ges. 58.

†*Discinopsis sulcatus* Upper Cambrian China sp. n., WALCOTT Washington U. S. Nation. Mus. Proc. 30 (568-9).

†*Enteleles meyzbacheri* sp. n., Obercarbonischen, südlichen Tian-Schan, KEIDEL, N. Jahrb. Min., Beilagebd. 22 (376-7).

†*Eodevonaria* subgen. n. of *Chonetes* BREGER, Amer. J. Sci., 22 (534-536).

†*Epithyris*, Phillips 1841 (= *Terebratula macillata* series) type, *E. bathonica* nom. n., BUCKMAN, Ann. Mag. Nat. Hist. 18 (320-2).

†*Funella compressa* Kinderhook formation, St. Louis sp. n. WELLER St. Louis Trans. Acad. Sci. 16 (442-3).

†*Glossia variabilis* Upper Silurian Ottawa, sp. n. WHITEAVES Rep. Geol. Surv. Can. 14 (42F-43F).

*Hemiptychina* vide *Terebratula*.

*Hemithyris columnus* sp. n. Cape Byron, HEDLEY Sydney Rec. Austr. Mus. 6 (44) figg.

†*Hypothyris*, Phillips 1841, preoccupied = *Hypothyridina* nom. n.; BUCKMAN, Ann. Mag. Nat. Hist. 18 (320-4).

†*Hypothyridina* nom. n. (= *Hypothyris*, auctt); genotype *Atrypa cuboides* Sby 324, BUCKMAN Ann. Mag. Nat. Hist. 18.

†*Karpinskia* Tsch., resemblance to Rhynchonellidae due to convergence (266-8); *K. tschernyschewi* Devonian, Eastern Alps sp. n. (270-1), SCUPIN Berlin Zs. D. geol. Ges. 58.

*Kingena alcocki* sp. n. off Travancore JOUBIN Bul. Muséum Paris 1906 (529-32).—*K. alcocki*, association with *Sabelaria alcocki*, GRAVIER Bul. Muséum Paris 1906 (540-3).

†*Leptodus* Kayser, 1883 precedes *Lyttonia*; genoholotype *L. riechthofeni* Kayser, BUCKMAN Ann. Mag. Nat. Hist. 18 (326).

†*Leptostrophia oriskania* Oriskany formation New York sp. n. CLARKE Albany Univ. Mem. St. Mus. 3, No. 3 (53-4).

†*Lingula limitaris* Chazy formation Vermont U.S.A. sp. n. SEELY Rep. Vermont, State Geol. 1905-6 (183-4).—*L. mytiloides* Sby., dwarf form figd., WARD, Stafford, Rep. N. Staff. F. Cl. 40 (124).

†*Lingulella genii* Cambrian Nevada sp. n. PACK J. Geol., Chicago 14.

†*Liothyris antarctica* Antarktis (692), *winteri* (693), St. Paul Ins. spp. n. BLOCHMANN Zool. Anz. 30, No. 3 (697).—*L. uca* Brod. OEHLERT Bul. Muséum Paris, 1906 (555-7).

†*Lyttonia*, Waagen 1883, syn. of *Leptodus*; BUCKMAN Ann. Mag. Nat. Hist. 18, (326).

*Macandrevia vanhöffeni* sp. n. Antarktis, BLOCHMANN Zool. Anz. 30 (696).

*Magellania joubini* Antarktis sp. n. BLOCHMANN, T.c. (697).

†*Meekella vinassai* Carboniferous, Carnian Alps sp. n. GORTANI, in VINASSA DI REGNY & GORTANI, Bul. Soc. geol. Ital. 24 (536-7).

†*Meristella lentiformis* (445), (?) *vascularia* (45-6), Oriskany formation New York, spp. n., CLARKE Albany Univ. Mem. St. Mus. 3, No. 3.

†*Meristina* (?) *expansa* Upper Silurian Ottawa sp. n. WHITEAVES Rep. Geol. Surv. Can. Ottawa 14 (45 F-6 F).

†*Monomerella noveboracum* Lower Shelby Dolomite, New York sp. n. CLARKE & RUEDEMAN Albany Univ. Mem. St. Mus. 5 (39-41).

†*Notothyris* (?) *gibba* Permocarbo-  
ferous, Carnian Alps **sp. n.** GORTANI  
Paleontogr. Ital. **12** (48).

†*Nucleospira frechi* Devonian, Eastern  
Alps **sp. n.** SCUPIN Berlin Zs. D. geol.  
Ges. **58** (283-4).—*N. minima* Kinder-  
hook formation St. Louis **sp. n.** WELLER  
St. Louis Trans. Acad. Sci. **16** (447).

†*Ombonia* **gen. n.** of Orthothetinae, Bel-  
lerophonkalk CANEVA N. Jahrb. Min.  
Stuttgart **1906**, 1, Abhandl. (54).

†*Oriskania sinuata* Oriskany forma-  
tion New York **sp. n.** CLARKE Albany  
Univ. Mem. St. Mus. **3** No. 3, (38).

†*Orthis incurvata* (13), *bocki* (17-8),  
*parvula* (18), *bröggeri* (18-20, **spp. n.**,  
Silurian, Russia, LAMANSKY St. Peters-  
burg Mém. Com. géolog. n. s. **20**.—  
*O. (Platystrophia) podolica* Paleozoic,  
Podolia **sp. n.** SIEMIRADZKY Wien Beitr.  
Pal. geol. Oest. Ung. **19** (247).—*O.*  
(*Plectorthis*) *agreste*, *kichenensis*, Middle  
Cambrian, China **spp. n.**, WALCOTT  
Washington U. S. Nation. Mus. Proc.  
**30** (570-1).

†*Ortholetes perfidia-badensis* **sp. n.**  
[nom. nud.] Perno - Carboniferous  
Northern Territory, South Australia,  
ETHERIDGE Rept. Explor. Govt.  
(Geologist North Territ. S. Austral. **1905**  
(41-2).

†*Ortholetes becraftensis* Oriskany  
formation New York **sp. n.** CLARKE  
Albany Univ. Mem. St. Mus. **3** No. 3  
(51-2).—*O. (?) expansus* Carboniferous  
Carnian Alps **sp. n.** GORTANI in VINASSA  
di REGNY & GORTANI Boll. Soc. Geol.  
Ital. **24** (531).

†*Platystrophia* vide *Orthis*.

†*Plectambonites uncinata* Pand., type  
of *Plectella* (q.v.).

*Plectella*, **gen. n.**, type *Plectambonites*  
*uncinata* Pand.; *gracilis*, *semiovata*,  
*media*, *eminens*, *extensa*, *obtusa* **spp. n.**,  
Silurian, Russia, LAMANSKY St. Petersburg  
Mém. Com. géolog. n. s. **20** (20-7).

†*Plectorthis* vide *Orthis*.

†*Productella sublaevis* Kinderhook  
formation Illinois **sp. n.** [nom. nud.]  
WELLER J. Geol., Chicago **13** (620).

†*Productus purdoni*, Dav., Permian  
Cashmere; KOKEN Centralbl. Min.  
Stuttgart **1906** (129-31).

†*Ptychospira variegata* Devonian Bok-  
keveld Beds **sp. n.** REED Geol. Mag.  
London **3** (309) pl. xvi. fig. 7.

†*Pugnax* vide *Rhynchonella*.

†*Pygites* **gen. nov.** (de Haan MS.)  
(449); developmental stages (437);  
*diphyoides* (449) pl. xli fig. 19; BUCK-  
MAN, London Q. J. Geol. Soc. **62**.

†*Pygope*; developmental stages (437);  
*janitor* pl. xli fig. 12; *deltoidea* (445)  
fig. 13; *duali* (446) fig. 14; *P. (?)*  
*solidescens* **nom. n.** (447) fig. 15; *P. (?)*  
*euganeensis* (448) fig. 16; BUCKMAN  
London Q. J. Geol. Soc. **62**.

†*Rafinesquina distans* Chazy formation  
**sp. n.** RAYMOND Pittsburgh Ann. Carnegie  
Mus. **3** (575).

†*Renssellaeria hottentot.* (365), *relicta*  
(364), Paleozoic S. Africa **spp. n.**  
SCHWARZ Grahamstown Rec. Albany  
Mus. **1**.

†*Reticularis levis*, range and distri-  
bution, KINDLE, J. Geol., Chicago, **14**  
(188-93).—*R. septentrionalis* Upper  
Silurian, Ottawa **sp. n.**, WHITEAVES Rep.  
Geol. Surv. Can. **14** (44 F).

†*Retzia canalifera* Devonian Eastern  
Alps **sp. n.** SCUPIN Berlin Zs. D. geol.  
Ges. **58** (285).

†*Rhynchonella acutiplacata* (Brown)  
(= *R. angulata* Auct.) synonymy, BUCK-  
MAN P. Cotteswold Club **15** (209-13).—  
*R. silesica*, Cretaceous, Siberia, **sp. n.**  
ASCHER, Wien, Beitr. Pal. Geol. Oest. Ung.,  
**19**, (167).—*R. pseudopalmeta* (29-31),  
*fabianii* (34-6), *de-lottoi* (36-8), *caneva*  
(38-9), Lias, Sospirolo, Italy, **spp. n.**,  
PIAZ Abh. Schweiz. Pal. Ges. **33** pt. 3.—  
*R. fornensis* (37), (*Terebratuloidea*)  
*carnica* (38-9), Permo-carboniferous,  
Carnian Alps **spp. n.**, GORTANI Paleontogr.  
Italica **12**.—*R. plicatilis* **var. n.**, *symmien-*  
*sis*, PETIÖ Palaeontographica **52** (318-  
21).—*R. plurigibba* Muschelkalk Monte-  
negro **sp. n.**, MARTELLI Paleontogr.  
Italica **12** (120-1).—*R. (?) pentagonalis*  
(228-9), *spitzi* (234-5), (*Pugnax*) *post-*  
*modica* (240-3), *pseudopugnax* (243-4),  
(*Uncinulus*) *carnica* (246-8), Devonian  
Eastern Alps, **spp. n.**, SCUPIN Berlin  
Zs. D. geol. Ges. **58**.

†*Rhyncepora ambonensis*, *malayana*,  
Paleo- or Mesozoic Amboyna, **sp. n.**,  
BOHME in VERBEEK Jaarb. Mijuw. Ned.  
Ind., **1905** (92).

†*Rhynchospira loui* Silurian Manitoba sp. n., WHITEAVES Ottawa Geol. Surv. Canada Pal. Fossils 3 (277-8).

†*Scaphiocalia* (?) *africana* Devonian Bokkeveld Beds, sp. n., REED Geol. Mag. London 3 (306-8).

†*Schizambon duplicimuratus* Chazy Limestone Lake Champlain sp. n., HUDSON Albany Univ. Bull. St. Mus. 80 (284).

†*Seminula* M'Coy 1844, genotype *Terebratula pentaedra* Phillips, BUCKMAN Ann. Mag. Nat. Hist. 18 (324-6).—vide *Composita*.

†*Spirifer ambiguus* Sly., the type of *Composita* Brown (q.v.).—*S. flamandi* Devonian, Sahara sp. n. (name only), HAUQ Paris C.-R. Acad. sci. 142 (732-4).—*S. geyeri* (287-9), *pseudoviator* (289-90), *stachei* (290-1), *volaicus* (293-4), *koegeleri* (294-5), *subviro* (297-8), Devonian, Eastern Alps, spp. n., SCUPIN Berlin Zs. D. geol. Ges. 58.—*S. jeffersonensis* Kinderhook formation St. Louis sp. n. WELLER St. Louis Trans. Acad. Sci. 16 (444-5).—*S. maplensis* Kinderhook formation Iowa sp. n., [nom. nud.], WELLER J. Geol. Chicago 13 (628).

†*Spiriferina ambonensis* (90-91), *malayana* (91), *moluccana* (91), Palaeo- or Mesozoic, Amboyna spp. n., BOEIME in VERBEEK Jaarb. Mijnw. Ned. Ind. 1905.—*S. di-stefanoi*, Lias, Sospirolo, Italy sp. n., PIAZ Abh. Schweiz. Pal. Ges. 33 pt. 3 (20-2).

†*Strophomena frechi* Devonian Eastern Alps sp. n. SCUPIN Berlin Zs. D. geol. Ges. 58 (217-8).—*S. podolica* Palaeozoic Podolia sp. n., SIEMIRADZKI Wien, Beitr. Pal. Geol. OestUng. 19 (248).

†*Syntrophia multicosta* Chazy Limestone Lake Champlain sp. n., HUDSON Albany Univ. Bull. St. Mus. 80

(285-6).—*S. orthia* Upper Cambrian China sp. n., WALCOTT Washington Nation. Mus. Proc. 29 (11-2).

*Terebratella enzenspergeri* Kerguelen sp. n., BLOCHMANN Zool. Anz. 30 (697).

†*Terebratula concentrica* vide *Cleiothyris*.—*T. gottschee* Steinm., Beschreibung, PRINZ, Math. Term. Ért. 24 (418-32) Taf.—*T. pentaedra* Phill., genotype of *Seminula* (q.v.).—*T. synophrys* Uhl. var. n. *polyptygeta*, Lias, Sospirolo, Italy, PIAZ, Abh. Schweiz. Pal. Ges., 33, pt. 3, (42-3).—*T. (Nemiptyckina) schellwieni* (43-4), *tridentata* (44-5), Permo-carboniferous Carnian Alps, spp. n., GORTANI Paleontogr Italica 12.

†*Terebratuloidea* vide *Rhynchonella*.

*Thecidea maxilla* Hedl., occurrence in New Hebrides, HEDLEY Sydney Rec. Austr. Mus. 6 (41-54).

†*Trigeria simplex* Palaeozoic S. Africa sp. n., SCHWARZ Grahamstown Rec. Albany Mus. 1 (366).

†*Urcinulus* vide *Rhynchonella*.

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## (b) BRYOZOA OR POLYZOA

ARRANGEMENT COMMENCED BY

A. D. IMMS,

COMPLETED BY

S. PACE AND R. M. PACE

## CONTENTS

	PAGE
I. TITLES .. .. .	18
II. SUBJECT INDEX :—	
General = 2003 .. .. .	22
Structure = 2007 .. .. .	22
Physiology = 2011 .. .. .	22
Development = 2015.. .. .	23
Ethology = 2019 .. .. .	23
Variation and Aetiology = 2023 .. .. .	23
Distribution = 2027 .. .. .	23
( $\alpha$ ) Recent .. .. .	23
( $\beta$ ) Fossil .. .. .	23
III. SYSTEMATIC INDEX = 2031 .. .. .	25

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## II.—SUBJECT INDEX.

*N.B.—For full reference go to Titles.*

### GENERAL. 2003

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Publications during 1905; **Kemp**; **Mayer**.

N. American paleontological publications, 1901-5; **Weeks**.

References to Bryozoa in early authors; **Neviani**, **2**.

#### Museums.

New York State Museum, catalogue of type-specimens of Palæozoic fossils; **Clarke**, **1**.

D'Orbigny's "Prodr. Paléont. Strat. Univ.," types reviewed and figured; **Boule** & **Thevenin**.

James' types re-described; **Bassler**, **1**.

#### Technique.

Fixation and staining, eggs and larvae of *Flustrella hispida*; **Pace**.

### STRUCTURE. 2007

General, *Aleyonidium brucei*; **Calvet**, **1**.

General, *Aleyonidium mytili*; **Silbermann**.

General, *Hislopia*; **Annandale**.

General, *Loxosoma davenporti*; **Nickerson**,

General, larval *Pedicellina*, *Aleyonidium*, etc.; **Seeliger**.

General, *Plumatella javanica*; **Kraepelin**.

General, *Rhabdopleura*; **Schepotieff**.

Zoëcium of *Eteidea*; **Lang**, **1**.

Zoëcium, percentage of Magnesium carbonate; **Nichols**. H. W.

### PHYSIOLOGY. 2011

Rheotropism, *Bugula*; **Hallez**.

## DEVELOPMENT. 2015

General, *Platystrophia hispida*; comparison with other forms; **Pace**.

Budding, degeneration and regeneration in *Aleyonidium* and *Bugula*; **Römer**.

Spermatozoa, *Aleyonella*, *Triticella*; **Retzius**.

Polyspermie, *Membranipora*; **Bonnevie**.

Larvæ; **Seeliger**.

## ETHOLOGY. 2019

Association of *Plumatella polymorpha* with *Astacus fluviatilis*; **Zomnicki**.

*Membranipora membranacea*, influence of brackish water; **Loppens**.

*Plumatella repens*, appearance in a heated aquarium; **Köhler**.

VARIATION AND  
ÆTIOLOGY. 2023

Verwandschaftsbeziehungen der Bryozoen; **Seeliger**.

Variation in *Membranipora membranacea* induced by brackish water; **Loppens**.

Topomorphs of *Eleidæ*; **Lang**, 1.

## DISTRIBUTION. 2027

## (α) RECENT.

## General.

Collections of the second "Fram" expedition; *Eschara*, *Porella*, *Ramphosotomella*, *Schizoporella*, spp. n.; **Nordgaard**, 2.

Europe. d

W. Norway, fauna; *Bugula*, *Smithia*, spp. n.; **Nordgaard**, 1.

Germany, fauna of the Rhine district; **Lauterborn**.

Germany, *Pectinatella magnifica* (Leidy) bei Berlin; **Weitner**.

Germany, species from the Moritzburger Grossteich near Dresden; **Schorler**, **Thallwitz** & **Schiller**.

Holland, varieties of *Membranipora membranacea* in brackish water; **Loppens**.

British Is., distribution of "*Cyphonautes*" larva during 1904; **Gough**.

Ireland, occurrence of *Hypophorella expansa*; **Nichols**, A. R.

North Sea, distribution of "*Cyphonautes*" larva during 1903; **Apstein**.

Asia. e

India, freshwater fauna, *Histolpia*; **Annandale**.

Java, *Plumatella javanica* sp. n.; **Kraepelin**.

## N. America.

Canada, fauna of Anticosti I.; **Schmitt**.

United States, *Loxosoma*, sp. n., New England coast; **Nickersen**.

Australasia. i

Fauna Chatham I. and D'Urville I.; *Lepralia*, *Smithia*, spp. n.; **Waters**.

Arctic. k

Fauna of Davis Strait and Greenland; **Norman**.

Fauna of Bear I. and West Spitzbergen; *Cellepora*, sp. n.; **Kluge**.

Kolguev I., *Aleyonidium*, sp. n.; **Calvet**, 1.

Atlantic. l

Bryozoaires de la région sub-antarctique del' Océan Atlantique; **Calvet**, 2.

## (β) FOSSIL.

## General.

England, lists of fossils from Cheshire; **Pocock**.

Madagascar, fossils; **Lemoine**.

Canada, fossils from Beechy I.; Lancaster Sd.; and Cape Chidley; **Low**.

United States, fossils from Bighorn Mountains, Wyoming; **Darton**.

### Cainozoic.

Italy, fauna of the Piedmont basin; **Sacco**.

### Post-Tertiary.

Sweden, occurrence of *Cristatella mucedo*; **Witte**.

Crete, few species from cave-deposit; **Bullen**.

United States, fauna of Maryland; **Ulrich**.

United States, fossils from Sankaty Head, Nantucket; **Wilson**.

### Tertiary.

France, fossils from the Faluns of Saint-Denis, Ile D'Oléron; **Degrange-Touzin**.

Italy, Pliocene fossils; **Toldo**.

S. Tunis, fauna *Cribricella* (gen. n.) *Membranipora*, *Phylactella*, *Poricella* (gen. n.) spp. n.; **Canu**.

Patagonia, fauna; **Ameghino**.

### Mesozoic.

#### Cretaceous.

Key to spp. of *Entalophora*; **Lang**, 2.

Germany, fauna of Schaumburg-Lippe; **Harbort**.

England, fossils from the Phosphatic Chalk of Berkshire; **White & Treacher**.

England, fauna of the Trimmingham Chalk; *Cribrilina*, *Eschava*, *Membranipora*, *Mucronella*, *Semicschava*, spp. n.; **Brydone**, 2.

England, occurrence of *Siphoniotyphis tenuis*, Hag. in the Trimmingham Chalk; few fossils from between Cromer and Weybourne; **Brydone**, 1.

England, *Semimultelea* sp. n. Surrey; **Lang**, 1.

England, Upper Cretaceous fossils from the London Basin; **Treacher & White**.

Bohemia, fossils from the Iser district; **Zahálka**.

Pondoland, Cretaceous fauna; *Elea*, sp. n.; **Lang** in **Woods**.

Patagonia, Upper Cretaceous fauna; **Ameghino**.

### Jurassic.

Germany, fossils from the Bayerische Wald; **Wanderer**.

France, Toarcian fossils from Macon; **Lissajous**.

Italy, Lower Lias fossils from Perugia; **Merciai**.

Moravia, fossils from boulders of the "Stramberger Kalkstein," Rychaltitz; **Remesl**, 1, 2.

### Palæozoic.

Catalogue of type-specimens in the New York State Museum; **Clarke**, 1.

Russia, fauna of Podolia; **Siemi-radzky**, 1, 2.

Russia, fossils from Podolia, some new names without descriptions; **Siemi-radzki**.

United States, Upper Silurian and Lower Devonian faunas, Orange County, N. York; **Shimer**.

United States, lists of fossils from the Schoharie Valley, N. York; **Grabau**.

United States, James' types of Ordovician and Silurian fossils from Cincinnati, Ohio, re-described; **Bassler**, 1.

S. America, fossils from the lower Amazon region; **Schuchert**.

### Carboniferous.

Belgium, fossils from Petit-Modave; **Destinez**, 2.

England, fauna of Burrington Combe, Somerset; **Sibley**.

England, Avonian fauna of the Avon Gorge; **Vaughan, 2.**

Wales, few fossils from S.W. Gower; **Vaughan, 1.**

Scotland, fossils from near Glasgow; **Macnair.**

Carnian Alps, fauna; **Vinassa de Regni & Gortani.**

Carnian Alps, fauna of the Fusulinenkalk; *Rhombopora*, *Septopora*, spp. n.; many others figd.; **Johnsen.**

### Devonian.

Belgium, Fammenian fauna of Condroz; **Destinez, 1.**

England, fossils from St. Minver, Cornwall; **Fox.**

United States, fauna of Percé, N. York; **Clarke, 2.**

United States, fossils from N. York; **Slocum.**

United States, fauna of the Moscow Shales of Lake Canandaigua, N. York; **Raymond.**

### Silurian.

Sweden, fauna of Gotland; *Cœnites*, *Fenestella*, *Polypora*, *Semicosciniium*, *Sphragiopora*, *Stomatopora*, *Thamniiscus*, spp. n.; **Hennig.**

Russia, fauna; **Lamansky.**

United States, fossils from the Chazy Limestone, Lake Champlain; **Hudson.**

United States, fossils from the Chazy formations of Champlain Valley, Vermont; *Monticulipora*, *Prasopora*, spp. n.; **Seely.**

United States, fauna of the Rochester Shale; *Callopora*, *Ceramopora*, *Ceramoporella*, *Cœloclema*, *Diploclema*, *Diplotrypa*, *Eridotrypa*, *Fistulipora*, *Lœoclema*, *Lœoclemella*, *Loculipora*, *Mitoclema*, *Monotrypa*, *Nicholsonella*, *Orbignyella*, *Phænopora*, *Rhombotrypa*, *Stigmatella*, *Tæniodictya*, spp. n.; **Bassler, 2.**

Canada, Upper Silurian fauna of the Ekwan River and Sutton Mill Lakes, Keewatin, Ottawa; *Phænopora*, *Fenestella*, spp. n.; **Whiteaves, 1.**

Canada, fauna of Manitoba; **Whiteaves, 2.**

Canada, fauna of Anticosti I.; **Schmitt.**

### Ordovician.

Wales, fossils from Western Carmarthenshire; **Evans.**

Canada, fossils from E. Ontario; **Aml.**

## III.—SYSTEMATIC INDEX.

2031

"*Cyphonautes*" larva, distribution in North Sea during 1903, **ARSTEIN.**—Distribution in Irish Sea during 1904, **GOUGH.**

†Types of d'Orbigny's "Prodr. Paléont. Strat. Univ.," figured and reviewed; **BOULE & THEVENIN.**

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*Eleidaæ*, zoœcium (61-2); tables for determination of species (62-3); validity of genera (65-6); topomorphs (66-8), **LANG** Geol. Mag. London **3.**

*Alcyonella fungosa*, spermatozoa, **RETZIUS.**

*Alcyonidium brucei* Kolguev I., Arctic Ocean sp. n., **CALVET** Paris Bul. soc. zool. **28** (33-6).—*A. mytili*, anatomy, etc., **SILBERMANN**, Arch. Natg., Berlin **72** (265-310).—*A. mytili*, development and structure of larva, **SEELIGER.**—*A. mytili*, budding, degeneration and regeneration, **RÖMER.**

*Barentsia variabilis* (58-9), *capitata* (59) spp. n., sub-antarctic S. Atlantic **CALVET** Paris Bul. soc. zool. **29.**

*Bugula avicularia*, budding, degeneration and regeneration, **RÖMER.**—*B. avicularia*, rhétropisme, **HALLEZ** Paris C.-R. Acad. sci. **141** (842-3).—*B. elongata* sp. n. Norwegen, **NORDGAARD**, Bergen Meeresf. Berg. **1** (80).

†*Callopora clausa* Rochester Shale **sp. n.**, BASSLER Washington, U.S. Dept. Int. Bull. Geol. Surv. No. 292 (42).

*Cellepora nordgaardii* Arctic Ocean **sp. n.**, KLUGE Wiss. Meeresunters. Kiel 8 Abt. Helgol. (47-8).—*C. plicata* vide *Ramphostomella*.

†*Ceramopora niagarensis* Rochester Shale **sp. n.**, BASSLER Washington U.S. Dept. Int. Bull. Geol. Surv. No. 292 (19-20).

†*Ceramoporella irregularis* Rochester Shale, Lockport, N.Y. **sp. n.** BASSLER T.c. (21).

*Chaperia spinosissima* sub-antarctic S. Atlantic **sp. n.**, CALVET Paris Bul. soc. zool. 29 (51-2).

†*Coeloclema cavernosa* Silurian Lockport, N.Y. and Osgood, Ind. **sp. n.**, BASSLER Washington U.S. Dept. Int. Bull. Geol. Surv. No. 292 (21).

†*Coenites repens* Wahlenb., varieties (27-44); *C. variabilis* (44-56) **sp. n.** Silurian Gotland, HENNIG Ark. Zool. Stockholm 3 No. 10.

†*Cribricella* **gen. n.**, type *Eschara coscinopora*, Rss.; *C. crassicollis* **sp. n.** Tertiary, Tunis, CANU Explor. sci. Tunisie.

†*Cribrilina sherborni* (296-7) fig. 7; *dibleyi* (297) fig. 8; *jukes-brounei* (297-8) fig. 8; *gregoryi* (300) fig. 13; cretaceous Norfolk **spp. n.**, BRYDONE Geol. Mag. London 3.

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†*Elea meridiana* cretaceous S. Africa, **sp. n.** LANG, Cape Town, Ann. S. Afric. Mus. 4 (283).

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†*Eridotrypa nodulosa* (30), *similis* (31), *spinosa* (29-30), Rochester Shale **spp. n.**, BASSLER Washington U.S. Dept. Int. Bull. Geol. Surv. No. 292.

*Eschara suturata* **sp. n.** Arktisch. NORDGAARD, Rept. 2nd "Fram" Expdn. No. 8.

†*Eschara coscinopora*, type of *Cribricella* (q.v.).—*E. rowei*, cretaceous Norfolk **sp. n.**, BRYDONE, Geol. Mag. London 3 (296).

†*Fenestella mobergi* Silurian Gotland **sp. n.**, HENNIG Ark. Zool. Stockholm 3 No. 10 (4-7).—*F. subarctica* Upper Silurian Ottawa **sp. n.**, WHITEAVES Rep. Geol. Surv. Can. 14 (39 F-40 F).

†*Fistulipora crustula* (24), *lockportensis* (23) Rochester Shale **spp. n.**, BASSLER Washington U. S. Dept. Int. Bull. Geol. Surv. No. 292.

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*Hislopia* a true Ctenostome; anatomy *H. lacustris* ANNANDALE Calcutta, J. As. Soc. Beng. 2 (63).

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*Lepralia elivosa* Chatham I. **sp. n.**, WATERS Ann. Mag. Nat. Hist. 17 (17-9).—*L. gemelliporoides* sub-antarctic S. Atlantic **sp. n.**, CALVET Paris, Bul. soc. zool. 29 (55).

†*Lioclema explanatum* (33), *circinctum* (34), *multiporum* (34), *ramulosum* (35), *globulare* (35), *peculiare* (35-6) Rochester Shale **spp. n.**, BASSLER Washington U. S. Dept. Int. Bull. Geol. Surv. No. 292.

†*Lioclemella maccombi* Rochester Shale **sp. n.** BASSLER Washington U. S. Dept. Int. Bull. Geol. Surv. No. 292 (36).

†*Loculipora ulrichi* **sp. n.**, *ambigua* **var. n. precursor** Rochester Shale, BASSLER T.c. (53).

*Loxosoma davenporti* **sp. n.** New England Coast, NICKERSON J. Morph. 17 (351-80).

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†*Membranipora griffithi* (293), *triminghamensis* (294), *britannica* (294-95), **sp. n.**, cretaceous Norfolk, BRYDENE Geol. Mag., London 3.—*M. varians* (14-5), *excavata* (15), *quadrata* (16), *flicki* (16-7), *bioculata* (17), *rotundicella* (18) **spp. n.** Tertiary, Tunis, CANU, Explor. sci. Tunisie.

*Membraniporella magellanica*, sub-antarctic S. Atlantic **sp. n.**, CALVET Paris Bul. soc. zool. 29 (53-4).

†*Mitoclema sarlei* Silurian Rochester N.Y. **sp. n.** BASSLER Washington U. S. Dept. Int. Bull. Geol. Surv. No. 292 (18).

†*Monotrypa osgoodensis* (46), *benjamini* (46-7), *pediculata* (47) Rochester Shale, **spp. n.** BASSLER T.c.

†*Monticulipora insularis* Chazy formation Vermont **sp. n.**, SEELY Rep. Vermont State Geol. 1905-6, (185).

†*Mucronella batheri*, cretaceous Norfolk **sp. n.**; BRYDENE Geol. Mag. London 3 (298-9) fig. 10.

†*Nicholsonella ringuebergi* Rochester Shale Lockport N.Y. **sp. n.**, BASSLER Washington U. S. Dept. Int. Bull. U. S. Geol. Surv. No. 292 (39).

*Norodonia Jullien* = *Histopia* Carter, ANNANDALE, Calcutta, J. As. Soc. Beng., 2 (63).

†*Orbigynella magnopora* Silurian Grimsby Ont. **sp. n.** BASSLER Washington U. S. Dept. Int. Bull. Geol. Surv. No. 292 (27).

*Pectinatella magnifica*, Leidy, occurrence at Berlin, WELTNER.

*Pedicellina echinata*, development and structure of larva, SEELIGER.

†*Phanopora fimbriata* var. **n. canadensis** Rochester Shale, BASSLER Washington U. S. Dept. Int. Bull. Geol. Surv. No. 292 (55).—*P. keewatinensis* Upper Silurian Ottawa **sp. n.**, WHITEAVES Rep. Geol. Surv. Can. 14 (40 F-1 F).

*Phylactella ventricosa* (17), (?) *orbiculata* (26-7) **spp. n.** Tertiary, Tunis CANU Explor. sci. Tunisie.

*Plumatella javanica* **sp. n.** Java, KRAEPELIN Hamburg Jahrb. wiss. Anat. 23 Suppl. 2 (143-6).—*P. polymorpha* var. *fungosa* growing on *Astacus fluviatilis*, ŁOMNICKI, Kosmos Lwów 31, (249-56).—*P. repens*, spontaneous appearance of a colony in a heated aquarium, KÖHLER.

†*Polyppora pentagonalis* Silurian Gotland **sp. n.**, HENNIG Ark. Zool. Stockholm 3 No. 10 (12-4).

*Porella alba, umbonata*, **spp. n.** Arktisch, NORDGAARD, Rept. 2nd "Fram" Expdn., No. 8.—*P. rouzaudi* sub-antarctic S. Atlantic **sp. n.** CALVET Paris Bul. soc. zool. 29 (57).

†*Poricella*, **gen. n.** type *macconnica* **sp. n.** Lower Eocene Tunis, CANU Explor. sci. Tunisie (28).

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*Ramphostomella hincksi* **nom. n.** (*Cellepora plicata*), Arktisch, NORDGAARD, Rept 2nd "Fram" Expdn. No. 8.

*Retepora magellensis* var. **n. arviculifera** sub-antarctic, S. Atlantic, CALVET Paris, Bul. soc. zool. 29 (58).

*Rhabdopleura normani*, anatomy SCHEPOTIEFF, Zool. Jahrb. Anat. 23 (463-534) 9 Taf.

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*Schizoporella bidenkapi, bispinosa, condylata, magniporata*, **spp. n.** Arktisch, NORDGAARD Rept. 2nd "Fram" Expdn. No. 8.—*S. ornata* (56), *pellucidula*, (56-7), sub-antarctic, S. Atlantic, **spp. n.** CALVET Paris Bul. soc. zool. 29.

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†*Semimultea*, British forms (63-5), *dixonii* **sp. n.** cretaceous Surrey (64) LANG Geol. Mag. London 3.

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†*Stigmatella globata* Rochester Shale N. York sp. n., BASSLER Washington U. S. Dept. Int. Bull. Geol. Surv. No. 292 (28).

†*Stomatopora minor* Silurian Gotland sp. n., HENNIG Ark. Zool. Stockholm 3 No. 10 (24-5).

†*Taniodictya schucherti* Rochester Shale Grimsby Ont. sp. n. BASSLER Washington U. S. Dept. Int. Bull. Geol. Surv. No. 292 (59).

*Thalamoporella michaelsoni*, sub-antarctic S. Atlantic sp. n., CALVET Paris, Bul. soc. zool. 29 (54-5).

†*Thamniscus törnqvisti* Silurian Gotland sp. n., HENNIG Ark. Zool. Stockholm 3 No. 10 (15-7).

*Triticella koreni*, spermatozoa, REIZIUS.

# VIII. MOLLUSCA

ARRANGEMENT COMMENCED BY

E. R. SYKES

COMPLETED BY

S. PACE AND R. M. PACE

## CONTENTS

	PAGE
I. TITLES .. .. .	2
II. SUBJECT INDEX:—	
General = 2203 .. .. .	35
Structure = 2207 .. .. .	36
Physiology = 2211 .. .. .	38
Development = 2215 .. .. .	38
Ethology = 2219 .. .. .	39
Variation and Ætiology = 2223 .. .. .	40
Distribution = 2227:—	
(a.) Recent .. .. .	40
Marine .. .. .	41
Non-Marine .. .. .	44
(b.) Fossil .. .. .	48
III. SYSTEMATIC INDEX = 2231:—	
General .. .. .	54
Amphineura .. .. .	54
Gastropoda .. .. .	55
Prosobranchiata .. .. .	55
Heteropoda .. .. .	74
Opisthobranchiata .. .. .	75
Pteropoda .. .. .	77
Pulmonata .. .. .	77
Scaphopoda .. .. .	85
Lamellibranchiata .. .. .	86
Cephalopoda. . . . .	98
(N-9720 r)	b 16

## I.—TITLES.

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Hwass, C. H.; Gosch.

Locard, Arnould; Germain, 9.

Mabille, Jules; Lamy, 6.

Madoulé, H. A.; Dautzenberg, 4.

Marrat, F. P.; Dautzenberg, 3.

Martens, E. von; Fischer, 1.

Nelson, William; R.

Rimmer, R.;

Rossmäessler, E. A.; Kobelt, 6.

Schlumberger, Ch.; Fischer, 2.

Zittel, Karl A. von; Dollfus, 3.

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Bronn's Klassen u. Ordnungen des Tier-Reichs continued; Simroth, 1.

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Dates of publication of Hartmann's "Erd- und Süßwasser-Gastropoden"; Woodward, 2.

Dates of publication of Sowerby's "Mineral Conchology" and "Recent and Fossil Shells"; Sykes, 3.

## Societies.

Dürkheim, history of "Pollichia" Society; Lauterborn, 2.

## II. SUBJECT INDEX.

### GENERAL. 2203

#### Biography.

Blanford, W. T.;

Hutton, F. W.;

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**Museums and Collections.**

Newcastle-on-Tyne, Hancock Museum, "Alder and Hancock" collection of Nudibranchiata; **Eliot, 3, 4.**

Caen, Musée d'histoire naturelle, catalogue of the "Defrance" collection; **Bigot.**

Padua, University Museum, Eocene Mollusca; **Fabiani.**

Bombay Nat. Hist. Soc. Museum, list of marine Mollusca; **Comber.**

University of Texas, fossil Cephalopoda described by Hyatt and Cragin; **Fritchett.**

Types of D'Orbigny's "Prodr. Paléont. strat. univ." reviewed and figured; **Boule & Thevenin.**

Lamarck's types of Arcidæ in the collection Defrance reviewed; **Lamy, 5.**

Fremont's supposed Jurassic fossils from Wyoming; **Veatch.**

German Plankton expedition, Pteropoda; **Schiemenz.**

"Travailleur" and "Talisman" expeditions, Cephalopoda; **Fischer & Joubin.**

German Deep-sea expedition, Polyplacophora; **Thiele, 2.**

"Siboga" expedition, Heteropoda; **Tesch, 1.**

**Nomenclature.**

"Genera" and "Species"; **Dacqué, 1.**

Nomenclature of species; **Dacqué, 2.**

Regulation of nomenclature; **Ihering, 2.**

Notes on nomenclature; **Dall, 1, 4, 8.**

Orthography of names of the Naiades; **Lindahl.**

**Technique.**

The application of statistical methods to turbinated shells; **Malard.**

Histology of nerve-ganglia; **Freidenfelt.**

Staining degenerate nerve fibres; **Veneziani.**

Collecting and preserving land and fluviatile molluscs; **Martens.**

Prevention of corrosion in shells; **Byne.**

Prevention of corrosion in shells; **Lucas.**

**STRUCTURE. 2207****General and Comprehensive.**

Review of recent work; **Simroth, 6.**

Asymmetry of Gastropoda; **Wodzińska-Węgrzynowiczowa.**

Docoglossa, *Acmæa testudinalis*; **Willcox.**

Tenioglossa, *Cassidaria rugosa*; **Reynell, 1.**

Heteropoda; **Tesch, 1.**

Tectibranchiata, notes on *Lophocereus*, *Lobiger*, *Haminæa*, *Newnesia*; **Eliot, 6.**

Tectibranchiata, *Tethys*; **Burne.**

Nudibranchiata; **Eliot, 2.**

Nudibranchiata, British; **Eliot, 5.**

Nudibranchiata, species from S. India and Ceylon; **Eliot, 3, 4.**

Nudibranchiata, *Caliphylla*; **Brüel.**

Nudibranchiata, *Doriopsisilla*; **Eliot, 7.**

Nudibranchiata, *Phylliroe bucephala*; **Vessicelli.**

Pteropoda; **Molsenheimer, 1.**

Pulmonata, *Burtoa nilotica*; **Reynell, 2.**

Pulmonata, *Dyakia*; **Godwin-Austen.**

Pulmonata, *Paryphanta atramentaria*; **Murdoch.**

Lamellibranchiata, *Jousseaumia* gen. n.; **Bourne.**

Lamellibranchiata, *Solen*, *Ensis*; **Bloomer.**

Cephalopoda, primitive; **Ruedemann, 1.**

Cephalopoda, *Cheiroteuthis macrosoma*; **Nishikawa, 1.**

Cephalopoda, *Ctenopteryx*; **Ashworth & Hoyle.**

Cephalopoda, *Opisthoteuthis*; **Meyer, 1.**

**Nervous System.**

Gastropoda; **Aeberhardt, 2.**

Central nervous system, *Anodonta* ;  
**Bochenek.**

Histology of visceral ganglion, *Ano-*  
*donta* ; **Freidenfeldt.**

Structure of ganglion cells, *Octopus* ;  
**Gariseff.**

Cytology of ganglion cells ; **Popoff.**

Nerve cells of *Helix* ; **Legendre, 1, 2,**  
**3, 4, 5.**

Innervation of creeping disc of Pul-  
monata ; **Biedermann.**

Innervation of Chomatophores, Cepha-  
lopoda ; **Saint-Hilaire.**

Structure of pedal nerves of *Ariolimax* ;  
**Jenkins & Carlson.**

Degenerate nerve fibres in *Helix* ;  
**Veneziani.**

### Sense Organs.

Eye, Pulmonata ; **Smith, G.**

Eye, Dibranchiata ; **Werner.**

Luminous organs, Sepiolini ; **Meyer,**  
**3.**

### Myology.

Adductor muscles ; **Marceau, 3.**

Adductor muscle, etc., *Placuna* ;  
**Anthony, 1.**

Odontophoral apparatus, *Sycotypus*  
*canaliculatus* ; **Herrick.**

Mantle muscles, Cephalopoda ; **Mar-**  
**ceau, 1.**

Columella muscle, *Lytoceratidæ* ;  
**Prinz, 2.**

### Tegument.

Nematocysts, *Eolidæ* ; **Cuénot.**

### Shell.

Gastropoda, sinistrosity and dex-  
trosity ; **Ancey, 1.**

Operculum, insufficiency as a basis of  
classification ; **Gratacap.**

Cephalopoda, *Volborthella* ; **Karpinsky.**

Siphuncle of *Endoceratidæ* ; **Whit-**  
**eaves, 6.**

Muscular impression, Pelecypoda ;  
**Reis.**

Hinge, etc., of *Astarte* ; **Pethö.**

*Cardium edule* ; **Ostroumoff.**

Shell-structure, *Neritidæ* ; **Pethö.**

Pearls and their formation ; **Seurat,**  
**2, 3.**

### Alimentary System.

Lamellibranchiata feeding mecha-  
nism ; **Wallengren, 2.**

Mouth is duplicated in *Lima* ;  
**Pelseneer, 2.**

"*Rhyncholithes*" ; **Till.**

Radula, Buccinidæ ; **Lebour.**

Radula, Nudibranchiata ; **Ellot, 1.**

Salivary glands, *Helix pomatia* ;  
**Pacaut & Vigier 1, 2, 5, 7, 8.**

Glands of *Nalepa*, *Helix* ; **Pacaut**  
**& Vigier, 4, 6.**

### Circulatory and Respiratory Organs.

Heart ; **Marceau, 5.**

Histology of heart of Lamellibran-  
chiata ; **Łoziński, 1, 2.**

Anatomy and histology of heart, *Area* ;  
**Theiler.**

Arterial system of *Aplysia* ; **Blatin**  
**& Viès.**

Pulmonata ; **Soós, 2.**

Lamellibranchiata, current produc-  
tion ; **Wallengren, 1.**

### Excretory Organs.

Nephrogonocoelom, *Fisaurella*, *Na-*  
*cella*, *Chiton* ; **Haller.**

Pulmonata, **Soós, 2.**

*Octopus*, histology ; **Mayer &**  
**Rathery.**

### Reproductive Organs.

Cephalopoda ; **Chun, 1.**

Cephalopoda, male organs ; **Marchand.**

Cephalopoda, male organs *Opistho-*  
*teuthis* ; **Meyer, 2.**

Pulmonata, seminal apparatus, *Helix* ;  
**Popovici-Bazosanu.**

Dart, *Helix pomatia* ; **Jackson, 1,**

**Organs of Doubtful Homology.**

Fin of Heteropoda; **Tesch, 1.**

Saliva, action on albuminoids, *Helix*; **Pacaut & Vigier, 3.**

Glands of Nalepa, *Helix*; **Pacaut & Vigier, 6.**

**PHYSIOLOGY. 2211****General and Comprehensive.**

Review of recent work; **Simroth, 6.**

Physiology of Mollusca; **Mendel & Bradley.**

Presence of emulsine; **Giaja.**

Nudibranchiata, alimentary and reproductive systems, *Caliphylla*; **Brüel.**

*Octopus*: **Mayer.**

**Respiration.**

Breathing sounds; **Soffel, 2.**

Water circulation, Lamellibranchiata; **Wallengren, 1.**

**Excretion.**

Urinary secretion, *Octopus*; **Gompel & Henri.**

**Nervous System.**

Central Nervous system; **Jordan, 2.**

Pedal nerves of *Ariolimax*; **Jenkins & Carlson.**

Effect of drowning on nerve-cells, *Helix pomatia*; **Legendre, 2.**

**Reproductive System.**

*Helix*; **Meisenheimer, 2.**

Regeneration of dart, *Helix pomatia*; **Jackson, 1.**

Plasmolysis of Spermatozoa; **Koltzoff.**

**Sense-Organs, etc.**

Chromatophores, Cephalopoda; **Saint-Hilaire.**

Luminous organs, Sepiolini; **Mayer, 3.**

**Environmental Effects.**

*Lymnaeus elodes*; **Walter.**

Water motion, Unionidæ; **Sell.**

Eggs of *Philine*; **Schimkewitsch.**

Action of salt solution on the ciliated epithelium, *Mytilus*; **Lillie.**

Influence of temperature on growth; **Rajat.**

Albino production; **Köhler, 2.**

Albino production, *Planorbis*; **Ziegeler, 4.**

**Muscular System.**

General; **Marceau, 4.**

Mantle muscles, Cephalopoda; **Marceau, 1.**

Adductor muscles, Lamellibranchiata; **Marceau, 2, 3.**

**Locomotion.**

Gastropoda; **Jordan, 1.**

Creeping disc, Pulmonata; **Biedermann.**

*Pectunculus*; **Viès, 2.**

Swimming, *Pecten*; **Viès, 1.**

**DEVELOPMENT. 2215****Assimilation.**

Feeding mechanism, Lamellibranchiata; **Wallengren, 2.**

Digestion of glucosides and carbohydrates; **Bierry & Giaja.**

Digestive processes, *Aplysia*; **Ariola.**

Salivary glands, *Helix*; **Pacaut & Vigier, 1, 2.**

**General and Comprehensive.**

Review of recent work; **Simroth, 6.**

Asymmetry, Gastropoda; **Wodziszka-Węgrzynowiczowa.**

Pelagic eggs and embryos of *Abra-liopsis* sp.; **Nishikawa, 2.**

**Ovum and Spermatozoan.**

Cytology of reproductive cells; **Popoff.**

Oogenesis and spermatogenesis, *Enter-oxenos*; **Bonnevie, 1.**

Oögenesis and ovum, of Unionidæ; **Frierson.**



Oogenesis, Cephalopoda; **Loyez** (345).  
Spermatozoa; **Koltzoff**.  
Spermatozoa, Gastropoda; **Retzius**.  
Spawn of *Ampullaria*; **Roth**, 6.

### Fertilisation.

*Philine aperta*; **Schimkewitsch**.  
*Enterokenos*; **Bonnevie**, 2.

Artificial fertilisation of Echinoderm ova with spermatozoa of *Mytilus*; **Kupelwieser**.

### Embryology, Organogeny and Ontogeny.

*Crepidula*; **Dahlgren**.

*Paludina*; **Otto & Tönniges**.

*Fasciolaria*; **Glaser**.

*Planorbis*; **Soffel**, 1.

*Margaritifera panasesæ*; **Allen**.

Nephrogonocoelom, *Fissurella*, *Nacella*, *Chiton*; **Haller**.

Postembryonic development of *Scaphites*; **Smith**, W. D., 1.

Postembryonic development of *Indocerat*; **Noetling**, 1, 2.

Growth of *Rhabdoceras*; **Janensch**.

### Larval Forms.

"Glochidium" larva; **Roth**, 1.

### Regeneration.

Tentacles; **Kammerer** [u. Andere].

Tentacles; **Köhler**, 1.

## ETHOLOGY. 2219

### General and Comprehensive.

Review of recent work; **Simroth**, 6.

Habits of *Praticolella jejuna*; **Johnson**, 1.

Habits of *Lymnaeus clodes*; **Walter**.

Locomotion and mode of life in *Pecten*; **Anthony**, 2.

### Feeding Habits.

Cannibalism; **Gorka**.

"Feeding-tracks," Gastropoda; **Woodward**, 4.

*Bulinulus dormani*; **Sellards**; **Anon**, 4.

### Breeding Habits, &c.

Oviposition in *Ampullaria*; **Roth**, 6.

Sexual relations, oviposition, *Helix pomatia*; **Meisenheimer**, 2.

Attempt to breed from sinistral *Helix*; **Jackson**, 1.

*Anodonta*; **Wichand**.

### Luminosity.

Sepioliini; **Meyer**, 3.

### Habitat.

Cave-fauna; **Jeannel**.

Unionidæ; **Headlee**.

*Mytilus edulis* in deep water; **Knipowitsch**, 3.

### Parasitism and Commensalism.

"*Glochidium parasiticum*"; **Roth**, 1.

*Joussecaumia* gen. n. commensal with Corals; **Bourne**.

### Parasites.

Parasites of pearl oyster; **Hornell**, 2.

Parasites of *Donax trunculus*; *Anurosporidium pelseeneri* (Haplosporidian), gen. and sp. n.; **Caulley & Chappellier**.

Alga, *Colpomenia sinosa* on *Ostrea*; **Fabre-Domergue**.

Protozoa in *Octopus*, *Sepia*; *Eucoccidium jacquemoti* sp. n.; **Moroff**.

Sporozoa in Cephalopoda; **Leger & Duboscq**, 1, 2.

Sporozoa, *Nematopsis* sp. n. in *Mytilus*; **Léger**.

Trematoda; **Pelseener**, 3.

Trematoda in *Cardium*, *Mytilus*; **Nicoll**.

Cestode in *Margaritifera*; **Seurat**, 3.

Pycnogonida, larva of *Nymphon parasiticum* sp. n. on *Tethys*; **Merton**.

**Enemies.**

Swans and ducks eating *Anodonta*; **Rope.**

Swans eat *Anodonta cygnea*; **Blundell.**

Slug killed by crawling on cement; **Woodward, 3.**

**Defensive Processes.**

Nematocysts of Eolidæ; **Cuénot.**

**Economics.**

Oyster beds of Charente-Inférieure; **Guérin, 1, 2.**

Oyster fisheries and culture in Louisiana; **Cary, 1, 2, 3.**

Oyster beds, Macta R. Algeria, killed off annually by floods; **Bounhiol.**

Oyster beds invaded by an Alga (*Colpomenia*); **Fabre-Domergue.**

Pearl and pearl-shell fisheries of the Persian Gulf; **Gaskin & Townsend in Melvill & Standen, 1 (803-6).**

Pearl-fishery at Thana Creek, W. India; **Sale.**

Pearl fishery of Ceylon; **Hornell, 2.**

Pearl-shell fisheries, Paumotu and Gambier Is.; **Seurat, 1, 2, 3.**

Pearl and pearl-shell fisheries of Tuamotu; **Regelsperger.**

*Placuna* pearl fishery; **Hornell, 1.**

Scallops and clams in the Chandeleur Island regions, Louisiana; **Spaulding.**

Mollusca as bait; **Lilleskare, 1, 2.**

Snails destroy caterpillars; **Schoepf.**

*Drymaeus dormani*, destroyer of fungus injurious to citrus groves; **Anon, 4.**

Slugs eating potatoes; **Swanton, 3.**

Destruction of slugs; **Du Buysson.**

Marine shells in Gallo-Roman ruins; **Férot.**

**Variation and Teratology.**

Variation in turbinate shells; **Malard.**

Variation in radula of Buccinidæ; **Lebour.**

Albinism; **Honigsmann, 4.**

Albinism, *Planorbis*; **Roth, 7.**

Albinism, *Planorbis*; **Ziegeler, 4.**

Supposed Albinism, *Planorbis*; **Köhler, 3.**

White form of *Helicigona lapicida*; **Jackson, 2.**

Teratology; **Borissiak, 3.**

Teratology in eggs of *Philine*; **Schimkewitsch.**

Teratology, *Neptunca antiqua*; **Smith, E. A., 4.**

Pathological teratology, *Sphaerium solidulum*; **Sterki, 4.**

Reversal of direction of coiling of Gastropod shell, with lists of known instances; **Ancey, 1.**

Sinistral *Helicigona arbustorum*; **Shaw, 2.**

Sinistral *Hygromia rufescens*; **Shaw, 1.**

Sinistral *Limnæa peregra*; **Taylor, 2.**

Sinistral *Limnæa peregra*; **Trechmann.**

**Phylogeny and Taxonomy.**

Application of De Vries' mutation theory to the Mollusca; **Baker, 1.**

"Genera" and "species"; **Dacqué, 1.**

"Species"; **Dacqué, 2.**

"Subspecies," "mutations," and "forms"; **Cockerell, 5.**

Neritidæ; **Pethö (109-32).**

Races of *Volutilithes petrosus*; **Smith, B.**

*Cerion*; **Plate.**

Lamellibranchiata of the Frombach-tuffe; **Waagen, 1.**

Convergence in Triassic Ammonites; **Diener, 2.**

## VARIATION AND ÆTIOLOGY.

2223

**General.**

Review of recent work; **Simroth, 6.**

Variation and Mutation; **Lang.**

## DISTRIBUTION.

2227

## (a) RECENT.

Summary of recent faunistic work relating to Gastropoda; **Simroth, 7.**

Amboyna, supplement to fauna;  
*Ctilopsis* gen. and sp. n.; **André**.

Prince Edward I., fauna; **Chadwick, 3.**

Mediterranean, Cephalopoda; **Fischer & Joubin.**

Adriatic, *Lanzaia*, gen. n.; **Brusina, 1.**

(a) *Marine.*

**General.**

Chitonida; **Nierstrasz, 2.**

Japanese, Indo-Pacific, and American  
Pyramidellida; **Dall & Bartsch.**

Melongenida; **Hoernes.**

Heteropoda; **Tesch, 2.**

Heteropoda, distribution of known  
species and account of the "Siboga"  
collections; *Atlanta*, *Carinaria*,  
*Cardiopoda*, *Pterotrachea* (*Euryops*  
subgen. n.) spp. n.; **Tesch, 1.**

Indo-Pacific Opisthobranchiata; **Elliott, 6.**

Northern Pteropoda; **Lenz.**

Of the Indo-Pacific region Scaphopod  
fauna; *Cadulus*, *Dentalium*, *Entalina*,  
*Siphonodentalium* spp. n.; **Boissevain.**

**Europe.**

Auriculida, Assimineida, Truncatellida;  
**Monterosato, 1.**

Pleurotomida; *Clathurella*, *Pleurotomella*,  
*Spirotropis* spp. n.; **Sykes, 2.**

Norway, Mollusca used as bait;  
**Lilleskare, 1, 2.**

British Is., notes on Nudibranchiata;  
*Coryphella* sp. n.; **Elliott, 5.**

N. Wales, shells from Mochras I.;  
**Dean.**

Ireland, few shells from Co. Dublin;  
**Colgan, 1.**

Ireland, shells from S.E. Wexford;  
**Colgan, 2.**

Scotland, shells from the Inner  
Hebrides; **Knight.**

France, fauna of Cancale; **Martel.**

France, additions to fauna of St. Malo,  
varr. n.; **Dautzenberg & Durouchoux.**

France, *Petricola pholadiformis*;  
**Germain, 8.**

France, *Petricola* at Dunkerque;  
**Lesdain.**

France, oyster beds of Charente-  
Inférieure; **Guérin, 1, 2.**

**Asia and Malay Archipelago.**

Indo-China, fauna; *Mitra*, *Sistrum*,  
varr. n.; **Dautzenberg & Fischer, 1.**

S. India and Ceylon, Nudibranchiata;  
**Elliott, 3, 4.**

W. India, Thana creek, pearl fishery;  
**Sale.**

Ceylon, list of Mollusca; **Standen & Leicester.**

Ceylon, *Cyclostrema*, *Nassa*, spp. n.;  
**Melville, 2.**

Ceylon, *Jousseaumia* gen. n., spp. n.;  
**Bourne.**

Ceylon, pearl fishery; **Hornell, 2.**

Ceylon, *Placuna* pearl fishery; **Hornell, 1.**

Ceylon (?), *Bullia*, *Marginella*, *Nassa*,  
spp. n.; **Preston, 1.**

Bay of Bengal and Arabian Sea,  
*Amussium*, *Ancilla*, *Arca*, *Bathybembix*,  
*Calliostoma*, *Columbella*, *Corbula*,  
*Crassatellites*, *Crenella*, *Cryptodon*,  
*Dentalium*, *Fusus*, *Gaza*, *Lepidopleurus*,  
*Macoma*, *Malletia*, *Manaria* (gen. n.),  
*Metula*, *Morio*, *Nassa*, *Natica*, *Nucula*,  
*Oocorys*, *Pleurotoma*, *Pontiothauma*,  
*Scaphander*, *Tellina*, *Tritonidea*, *Trophon*,  
*Vesicomys*. *Yoldia*, spp. n.;  
**Smith, E. A., 1.**

Persian Gulf and North Arabian Sea,  
Cyclostrematida, Liotiida, spp.  
**Melville, 1.**

Persian Gulf and Gulf of Oman,  
*Cadulus*, *Cerithiopsis*, *Columbella*,  
*Crossca*, *Cylichna*, *Daphnella*, *Diala*,  
*Drillia*, *Eulima*, *Fossarus*, *Mangilia*,  
*Marginella*, *Mucronalia*, *Mumiola*,  
*Nassa*, *Odostomia*, *Parastrophia*,  
*Scalaria*, *Syrnola*, *Turbonilla*, *Volvula*  
spp. n.; **Melville, 3.**

Persian Gulf, Gulf of Oman and  
Arabian Sea, Pelecypoda; *Amussium*,  
*Arca*, *Barbatia*, *Brachyodontes*, *Cardita*,  
*Cardium*, *Corbula*, *Crenella*, *Kellia*,  
*Limæa*, *Lithodomus*, *Lucina*, *Macoma*,  
*Mesodesma*, *Modiolaria*, *Montacuta*,  
*Nucula*, *Pecten*, *Pectunculus*, *Scintilla*,  
*Spondylus*, *Syndesmya*, *Tellina* spp. n.;  
**Melville & Standen, 1.**

Malay Archipelago, Nias Channel, *Lepidopleurus*, sp. n.; **Thiele**, 3.

### Africa and Madagascar. *f*

Algeria, Gulf of Gabes, addenda to fauna; *Cardium*, *Conus*, *Nassa*, *Ocenebra*, *Ocenebrina*, *Philbertia*, *Rissoa*, *Uromitra* spp. and varr. n.; **Pallary**.

Algeria, natural oyster beds *Macta* R.; **Bounhiol**.

N. Africa, *Lepidopleurus* sp. n.; **Nierstrasz**, 2.

Suez Canal, discussion of fauna; **Tillier & Bavay**; **Faurot**.

Red Sea, Lamellibranchiata from Gulf of Tadjourah; **Anthony**, 3.

Gulf of Aden, Tectibranchiata; **Vaysière**, 4.

British E. Africa, Solenidæ; **Smith & Bloomer**.

Madagascar, fauna of Ambodifoutra; *Conus*, *Cypræa*, varr. n.; **Dautzenberg**, 1.

S. Africa, addenda to fauna; *Ancilla*, *Bullia*, *Calliostoma*, *Cerithiopsis*, *Clamys*, *Clionella*, *Conus*, *Dolium*, *Drillia*, *Euchelus*, *Glyphis*, *Marginella*, *Pinna*, *Rissoina*, *Scala*, *Trifora* spp. n.; **Smith, E. A.**, 2.

S. Africa, notes on Polyplacophora; *Acanthocheites*, *Plaxiphora* spp. n.; **Nierstrasz**, 1.

S. Africa, *Tethys*; spp. n.; **Burne**.

S. Africa; *Cypræa*, *Mangilia*, *Siphonaria*, *Terebra* spp. and varr. n.; **Sowerby**.

Cape of Good Hope, *Ischnochiton* sp. n.; **Thiele**, 2.

W. Africa, few shells; **Bavay**, 5.

### N. America and Mexico. *g*

W. America, Mitridæ; **Williamson**.

W. America, species of *Genota*; **Raymond**, W. J.

Canada, fauna Anticosti I.; **Schmitt**.

United States, fauna of Frenchman's Bay, Maine; **Blaney**, 1, 2.

United States, Polyplacophora of New England; **Balch**.

United States, *Calliostoma* sp. n. Florida; **Dall**, 3.

United States, oysters and oyster culture in Louisiana; **Cary**, 1, 2, 3.

United States, distribution of scallops and clams in the Chandeleur Island regions, Louisiana; **Spaulding**.

United States, *Scala* sp. n. California; **Dall**, 6.

United States, Opisthobranchiata of Monterey Bay, California; **MacFarland**.

United States, *Cerithiidea* var. n., San Diego, California; **Berry**.

### C. and S. America and W. Indies. *h*

Nicaragua, shells of Mosquito Coast; **Fluck**.

Caribbean Sea?, *Pecten* sp. n.; **Bavay**, 2.

Venezuela; *Pecten* sp. n.; **Bavay**, 2.

Argentina; *Pecten* fauna; varr. n.; **Bavay**, 3.

Magellan, *Buccinanops*, *Lamellaria*, *Natica*, *Voluta* spp. n.; **Strebel**.

### Australasia, New Guinea, New Caledonia, etc. *i*

Australia, *Glycymeris* sp. n.; **Pilsbry**, 3.

Queensland, Fauna of Masthead Reef; *Abra*, *Cardium*, *Coudylocardia*, *Cras-satellites*, *Cuna*, *Gafrarium*, *Gravicornium* (gen. n.), *Glycymeris*, *Modiolaria*, *Myodora*, *Philobrya*, *Verticordia* spp. n.; **Hedley**, 2.

Queensland, fauna of Masthead Reef; **Hedley**, 3.

New South Wales, *Bathytoma*, *Bittium*, *Cancellaria*, *Cerithiopsis*, *Emarginula*, *Lamopsis*, *Monilea*, *Murex*, *Pleurotoma*, *Poromya*, *Rissoa* spp. n. off Sydney; **Hedley & Petterd**.

Victoria, catalogue of marine fauna; **Pritchard & Gatliff**.

Victoria, *Cyclostrema*, *Daphnella*, *Scala* spp. n.; **Gatliff**.

Victoria, shells from Wilson's Promontory; **Pritchard**, 2.

New Zealand, fauna of the continental shelf; *Aclis*, *Acteon*, *Cirsonella*, *Cryptospira*, *Cylichna*, *Diala*, *Drillia*, *Eulima*, *Eulimella*, *Fulguraria*, *Margi-nella*, *Minolia*, *Odostomia*, *Omalaxis*, *Philine*, *Pleurotoma*, *Pyramidella*, *Ringi-*

*cula*, *Scala*, *Vulpecula* spp. n.; **Murdoch & Suter**.

New Zealand, fauna of the continental shelf; *Bathyrcaea*, *Dacrydium*, *Verticordia* spp. n.; **Hedley, 4.**

New Zealand, fauna of the continental shelf; *Columbella*, *Daphnella*, *Drillia*, *Mangilia*, *Newtoniella*, *Rissoa*, *Triphora* spp. n.; **Webster, W. H., 1.**

New Zealand; *Trochus*, *Trophon* spp. n.; **Webster, W. H., 2.**

New Zealand; *Amalthea*, *Chiton*, *Columbella*, *Helcioniscus*, *Purpura* spp. and varr. n.; **Suter**.

New Zealand, *Carinaria australis*; **Benham**.

South Australia, notes on fauna; *Acteon*, *Bornia*, *Condylocardia*, *Cyamio-mactra*, *Diala*, *Eulimella*, *Leiostraca*, *Mitromorpha*, *Olostomia*, *Philobrya*, *Rissoa* spp. n.; **Hedley, 1.**

South Australia, notes on fauna; *Cingulina*, *Scala*, *Terebra* spp. n.; **Verco, 1.**

South Australia, fauna; *Helcioniscus*, *Lippistes*, *Nacella*, *Scutellina*, *Seguenzia*, *Siphonaria* spp. n.; **Verco, 2.**

## Arctic.

E. Greenland, Lamellibranchiata; *Limatula*, sp. n.; **Jensen, 2.**

White Sea, *Mytilus edulis*; **Knipowitsch, 3.**

## Atlantic.

Cephalopoda of the "Travailleur" and "Talisman" expeditions; **Fischer & Joubin**.

Pteropoda of the German plankton expedition; **Schiemenz**.

N. Atlantic; *Aphanitoma* sp. n., etc.; **Bavay, 1.**

Bay of Biscay, plankton Cephalopoda; **Hoyle**.

Bay of Biscay, plankton; *Fowlerina* (gen. n.), *Peraclis* spp. n.; **Palseneer, 1.**

S. Azores; *Chiroteuthopsis* sp. n.; **Fischer & Joubin**.

Gibraltar to C. Verd Is.; *Acteopyramis*, *Alvania*, *Anaitis*, *Anura*, *Arco-pagia*, *Bursa*, *Columbella*, *Cuspidaria*, *Cymatium*, *Cypraea*, *Dolium*, *Euthria*,

*Fissurella*, *Marginella*, *Pectunculus*, *Phacoides*, *Pleurotoma*, *Solarisella*, *Syndesmya*, *Triforis*, *Venus* spp. n.; **Dautzenberg & Fischer, 2.**

Cape Verd Is., *Amphorina*, *Doto*, *Geitodoris*, *Phidiana*, *Rostanga*, *Staurodoris*, *Tritonia* spp. and varr. n.; **Eliot, 2.**

S. Atlantic, Pteropoda; *Peraclis* spp. n.; **Meisenheimer, 1.**

## Indian Ocean.

New Amsterdam, *Ischnochiton* sp. n.; **Thiele, 4.**

## Pacific.

Cerithiidae; *Cerithium* spp. n.; **Pilsbry & Vanatta, 2.**

N. Pacific, *Cheiroteuthis macrosoma* Goodrich; **Nishikawa, 1.**

Marcus I., fauna; **Bryan**.

Marianne Is., *Marginella* sp. n.; **Bavay, 4.**

Tuamotu Is., pearl shell fishery; **Regelsperger**.

Tuamotu and Gambier Is., Pelecypoda; *Syndesmya* sp. n.; **Lamy, 4.**

Tuamotu and Gambier Is., pearl shell; **Seurat, 1, 2.**

Tuamotu and Mangareva Is., Cypræide; **Vayssière, 2.**

Galapagos Is; *Chiton* sp. n.; **Nierstrasz, 2.**

## Antarctic.

Notes on Polyplacophora; **Thiele, 3.**

Prosobranchiata; *Cerithium*, *Lacuna*, *Margarita*, *Rissoia*, *Turbonilla* spp. n.; **Lamy, 1.**

*Charcotia*, *Guy-valvoria*, *Lamel-lariopsis* genm. n.; **Vayssière, 3.**

Note on Nudibranchiata; **Vayssière, 1.**

*Notaeolidia* (gen. n.), *Tritonia*, *Tritoniopsis* (gen. n.) spp. n.; **Eliot, 1.**

Lamellibranchiata; *Mactra*, *Monta-guia*, *Philobrya* spp. n.; **Lamy, 2.**

South Orkneys, *Kellyia*, *Yoldia* spp. n., etc.; **Lamy, 3.**

Bouvet I., *Callochiton*, *Notochiton*  
spp. n.; Thiele, 2.

(β) Non-Marine.

**General.**

Distribution of Slugs; Heynemann.

**Europe.**

Land fauna; Rossmässler.

*Helix vermiculata*; Caziot, 6; Caziot  
& Fagot, 1.

*Helix serpentina*; Caziot & Fagot,  
2.

*Helix muralis*; Caziot & Fagot, 3.

Dreissensiidae; Brusina, 2.

S. Europe, *Helix* varr. n.; Kobelt in  
Martini & Chemnitz.

S. Europe, *Levantina* sp. n.; Kobelt,  
4.

S. Europe, *Pomatias*, *Auritus* spp. n.;  
Wagner.

W. Europe, *Vivipara*; Kobelt, 3;  
Roth, 5.

**Russia**

Lithuania, fauna; Lindholm, 2.

Crimea, *Limnaea* sp. n.; Dybowski.

Caucasus, fauna; Simroth, 5.

**Germany.**

Distribution of *Helix* (*Vallonia*)  
*excentria*; Wüst, 2.

*Physa acuta* introduced; Franz.

*Cyclostoma elegans*; Menzel.

W. Germany, distribution of *Amalia*  
*marginata*; le Roi.

*Viviparus verus* near Hamburg;  
Franck.

*Xerophila ericetorum* near Stendal;  
Kupka.

Freshwater shells near Magdeburg;  
Wobick.

Fauna near Bernburg a. S.; Honig-  
mann, 1.

Prussia, land fauna; *Paludina* var. n.;  
Hilbert.

Dresden, few freshwater shells;  
Schorler, Thallwitz & Schiller.

Thuringia, few land shells; Sikes.

Munich, *Physa acuta*; Sigl.

Munich, additions to fauna; Blume, 1.

Württemberg, Vitrellidae; Boettger,  
O., 4; Geyer, 2.

Schwarzwald, fauna; Geyer, 1.

Oberrhein, fauna; Lauterborn, 1.

Oberrhein, two freshwater spp.;  
Lauterborn, 2.

Fauna of Bützow; Steusloff.

**British Is.**

Manual of British land and freshwater  
shells; Adams, 1.

Monograph of British slugs continued;  
Taylor, 1.

Pocket guide to fauna; Swanton, 1.

*Vallonia*; Cooper.

Westmoreland, *Vertigo alpestris*;  
Jackson, 3.

Lancashire, Fauna of Silverdale;  
Standen.

Lancashire, fauna of Morecambe dis-  
trict; Beeston.

Lancashire, notes on land shells;  
Glover.

Lancashire, *Helicella barbara*;  
Jackson, 6.

Lancashire, shells from Grange-over-  
Sands; Jackson, 5.

Yorkshire, *Testacella scutulum*;  
Crowther.

Yorkshire, *Cociliooides acicula*, etc.;  
Piercy.

Suffolk, occurrence of *Jamnia tripli-  
cata* Studer at Brandon; Chaster.

W. Suffolk, fauna; Mayfield.

Lincolnshire, *Helix nemoralis, horten-  
sis*; Warner.

Oxfordshire, addenda to fauna;  
Carpenter & Napier.

Buckinghamshire, *Limax tenellus*;  
Kew.

Surrey, *Testacella haliotidea*, Godal-  
ming; Latter.

Dorset, melanotic *Helicigona arbusto-  
rum*; Swanton, 2.

Isle of Wight, *Helicella virgata* var.;  
Jennings.

- Ireland, *Geomalacus maculosus*; **Delap.**  
 Ireland, *Helix tormensis*; **Scharff, 2.**  
 Ireland, *Succinea oblonga*, Antrim; **Milne, 2.**  
 Ireland, fauna of N.W. Donegal; **Welch, 1.**  
 Ireland, shells from N.W. Donegal; **Stelfox, 1.**  
 Ireland, shells from Roscommon; **Welch, 2.**  
 Ireland, *Helicella zakarensis* in Co. Down; **Stelfox, 2.**  
 Ireland, *Helix virgata*, Co. Down; **Milne, 1.**  
 Ireland, shells from Co. Tyrone; **Milne & Stelfox, 1.**  
 Ireland, *Helix virgata*, Maghera-mourne; **Milne & Stelfox, 2.**  
 Ireland, *Anodonta cygnea*, Co. Clare; **Fogerty.**  
 Orkney Is., landshells; **Godfrey.**  
 St. Kilda, land and freshwater shells; **Waterston & Taylor.**  
 N. Uist, Landshells; **Waterston.**  
 Perth, *Milax gagates*, var.; **Evans.**  
 Berwick, fauna of Galashiels; **Rose-burgh.**
- France and Corsica.** *df*  
*Helix acuta* distribution; **Lesdain, Godon & Labeau.**  
*Helix limbata*, distribution; **Giard, 2.**  
*Cochlicella barbara*; **Godon.**  
*Pupa anglica*; **Margier.**  
*Belgrandia lafayi* sp. n.; **Caziot in Lafay.**  
 Brittany, notes on fauna; **Germain, 6, 7.**  
 Pas-de-Calais, acclimatisation of *Helix acuta*; **Giard, 1.**  
 Pas-de-Calais and Nord, note on introduced *Helix*; **Giard, 3.**  
 S. France, notes on landshells; **Caziot, 2, 3.**  
 S. France, occurrence of Asiatic forms; **Caziot, 1.**  
 Nice, fauna; **Caziot, 4.**  
 Nîmes, freshwater shells; **Bérenguier.**
- Basses Pyrénées, fauna of the Grotte de Canon; **Jeannel.**
- Iberian Peninsula.** *dg*  
 Aragon, few shells; *Pupa* sp. n.; **Navas.**  
 Aragon, *Helix, Testacella* spp. n.; **Fagot.**  
 Aragon, shells from near Zaragoza; **Marcet.**
- Italy and Sardinia.** *dh*  
*Murella* spp. n.; **Kobelt, 5.**  
*Zospeum* sp. n.; **Pollonera, 2.**  
 Genoa, *Acme layoni* sp. n.; **Pollonera, 1.**  
 Elba and Pianosa, fauna; *Clausilia, Ferussacia, Xerophila* spp. n.; **Pollonera, 1.**  
 Sardinia, note on slugs; **Simroth, 2.**
- Switzerland.** *di*  
 Lake Zurich, *Paludina*; **Roth, 2, 3, 4.**  
 Lake Zurich, *Paludina vivipara*; **Boettger, O., 3.**
- Austria-Hungary.** *dk*  
 Tyrol, fauna of St. Jodok a. Brenner; **Blume, 2.**  
 Hungary, *Neritina*; **Soós, 1.**  
 Hungary, Land and freshwater Mollusca from the vicinity of the Balatonsee; **Kormos, 1; Weiss, 1.**  
 Carinthia, Basomatophora; **Gallenstein.**  
 Croatia, *Bulimimus, Neritina, Pomatia, Xerophila* spp. and subspp. n.; **Kormos, 3.**  
 Dalmatia, Herzegovina and Bosnia; *Pupa* sp. n., etc.; **Brancsik.**
- Balkan Peninsula.** *dl*  
 Roumania, fauna; **Montandon.**  
 Montenegro, notes on fauna; **Wohlberedt; Petrbock.**
- Mediterranean Islands.** *dm*  
 Cyprus, *Amalia, Agriolimax* spp. n.; **Simroth, 4.**

Asia and Malay Archipelago. *e*

Asia Minor, *Buliminus*, *Clausilia*, *Helix*, *Pupa* spp. and varr. n.; **Naegele**.

Asia Minor, land and freshwater shells; **Sturany**.

Asia Minor, slugs; *Agriolimax* sp. n.; **Babor**, 2.

Palestine, *Limax cecconii* sp. n.; **Simroth**, 4.

Aral Sea, fauna; **Ostroumoff**.

Arabian Peninsula, fauna; **Ancey**, 2, 3.

India, *Glessula*, list with spp. n.; **Beddome**.

Ceylon, *Glessula*, list with sp. n.; **Beddome**.

Indo-China and Yunnan, fauna; *Ampullaria*, *Buliminus*, *Camæna*, *Clausilia*, *Cyclophorus*, *Diplommatina*, *Ennea*, *Helix*, *Macrochlamys*, *Margarya*, *Melania*, *Opisthostoma*, *Paludina*, *Pupina*, *Rhiostoma*, *Satsuma*, *Unio*, *Xestina* spp. and varr. n.; **Dautzenberg & Fischer**, 1.

Yunnan, *Unio tauriformis* sp. n.; **Fulton**, 3.

Tonkin, *Chloritis mansonensis* sp. n.; **Gude**, 2.

China, land shells; *Buliminus* spp. n.; **Ancey**, 5.

China, *Kaliella* sp. n. Hupe; **Fulton**, 4.

China, *Sitala*, sp. n.; **Pilsbry**, 6.

Japan, notes on land shells; **Ancey**, 5.

Japan, few shells; **Adams**, 2.

Formosa, fauna; *Alycaeus*, *Blanfordia*, *Cyathopoma*, *Cyclotus*, *Diplommatina*, *Ennea*, *Eulota*, *Ganesella*, *Helicarion*, *Japonia*, *Kaliella*, *Macrochlamys*, *Microcystina*, *Nodularia Palaina*, *Pseudopomatias*, *Punctum*, *Sitala*, *Trochomorpha* spp. and varr. n.; **Pilsbry**, 2.

Philippine Is., Pulmonata; **Möllendorf, Kobelt & Winter in Semper**.

Philippine Is., *Curvella* spp. n.; **Da Costa**, 3.

Bangaya, *Chloritis* sp. n.; **Gude**, 1.

Banka I., *Nanina hageni* sp. n.; **Weber**.

Buru I., *Chloritis* var. n.; **Gude**, 1.

Halmahera, *Planispira cingarus* sp. n.; **Fulton**, 4.

Moluccas, *Chloritis* spp. n.; **Gude**, 1.

Sjerah I., *Chloritis* sp. n.; **Gude**, 2.

Sumatra, *Cyclophorus*, *Limnæa*, *Melania*, *Unio*, *Xesta* spp. and varr. n., etc.; **Bullen**, 1.

Sumatra, *Clausilia*, *Planorbis*, *Pterocyclus*, *Segmentina* spp. n.; **Bullen**, 2.

Sumatra, *Chloritis* spp. n.; **Gude**, 2.

Tenimber I., *Helicina* spp. n.; **Ancey**, 7.

Xulla Is., shells from Taliabu, with *Cyclotus*, *Hemiplecta*, *Trochomorpha*, *Xesta* spp. and varr. n.; **Schepman**.

Africa and Madagascar. *f*

N. Africa, *Helix muralis*; **Caziot & Fagot**, 3.

N. Africa, *Helix serpentina*; **Caziot & Fagot**, 2.

N. Africa, *Helix vermiculata*; **Caziot & Fagot**, 1.

Abyssinia, *Clausilia*, *Nanina* spp. n., etc.; **Neuville & Anthony**, 1.

Tanganyika, fauna; **Ancey**, 4.

Lakes Tanganyika and Victoria Nyanza, *Anceya*, *Anecltus*, *Corbicula*, *Sphaerium* spp. n., etc.; **Smith, E. A.**, 3.

Equatorial Africa, fauna, *Limicolaria*, *Unio*, *Vivipara*, etc., varr. n.; **Germain**, 4.

Equatorial Africa, notes on freshwater fauna; **Germain**, 5.

C. Africa, *Ampullaria*, *Corbicula*, *Lanistes*, *Limnæa*, *Physa*, *Trochonanina* spp. n., etc.; **Germain**, 1.

Lakes Rudolph, Stephanie, and Marguerite, fauna; *Unio* spp. n.; **Anthony & Neuville**, 2.

Lakes Rudolph, Stephanie, and Marguerite, fauna; **Neuville & Anthony**, 3.

British Central Africa, *Cleopatra* sp. n.; **Ancey**, 8.

Mashonaland, *Achatina* sp. n. **Da Costa**, 2.

Madagascar, *Cleopatra*, *Pisidium* spp. n.; **Ancey**, 8.

Congo, *Ætheria* (*Clessinella* subgen. n.) *sturanyi* sp. n.; **Waagen**, 2.



Uganda, *Limicola*, *Martensia* spp. n., etc.; **Preston, 3.**

Lake Chad, Fauna; *Pliodon* spp. n.; **Germain, 2.**

Lake Chad, Lamellibranchiata; **Germain, 3.**

### N. America and Mexico. *g*

Unionidæ, check-list; **Davis, 1.**

British Columbia, notes on shells; **Whiteaves, 9; Vanatta.**

Canada, distribution of *Helix hortensis*; **Johnson, 2, 3.**

Canada, Anticosti I., fauna; **Schmitt.**

Canada, shells from N.W. Ontario; **Whiteaves, 8.**

Newfoundland, *Helix hortensis*; **Cockerell, 3.**

United States, *Ammicola*, *Somatogyrrus* spp. n.; **Walker, 2.**

United States, *Somatogyrrus* spp. n.; **Walker, 1.**

United States, *Valvata*, varr. n.; **Johnson.**

United States, *Lepyrium* subsp. n.; **Pilsbry, 12.**

United States, distribution of *Helix hortensis*; **Johnson, 2, 3.**

United States, *Diplodon*, *Nephronaias* spp. n.; **Bartsch, 1.**

United States, *Pisidium* spp. and varr. n.; **Sterki, 1, 3, 5, 7.**

New England, Unionidæ; **Davis, 2.**

United States, fauna of S.W. States; *Ammicola*, *Bifidaria*, *Bulinulus*, *Cochliopa*, *Goniobasis*, *Helicodiscus*, *Lymnaea*, *Paludestrina*, *Pisidium*, *Planorbis*, *Polygyra*, *Pyramidula*, *Radiodiscus* (gen. n.), *Strobilops*, *Valvata*, *Vitrea* spp. and varr. n.; **Pilsbry & Ferriss.**

United States, Alabama, *Amphigyra* (gen. n.), *Neoplanorbis* (gen. n.) spp. n.; **Pilsbry, 11.**

United States, California, *Cochliopa rowelli*; **Rowell.**

United States, Colorado, *Sphaerium* sp. n.; **Sterki, 6.**

United States, Connecticut, *Paludestrina salsa*, at Branford; **Winkley.**

United States, Florida, species of *Drymaeus*; **Simpson.**

United States, Florida, collecting in the Everglades; **Reynolds.**

United States, Nebraska, list of shells; **Walker, 4.**

United States, New Mexico, shells of Grant, Valencia Co.; **Pilsbry, 5.**

United States, New York, shells of Richfield Springs; **Smith, M.**

United States, Ohio, fauna; **Sterki, 9, 10.**

United States, Oklahoma, fauna; **Ferriss.**

United States, Idaho, *Lymnaea* sp. n.; **Baker, 4.**

United States, Illinois, fauna; **Baker, 2.**

United States, Illinois, *Planorbis nautilus*; **Baker, 6.**

United States, Illinois, *Sphaerium stamineum* var. n.; **Baker, 7.**

United States, Indiana, notes on Unionidæ; **Headlee.**

United States, Indiana, *Lymnaea* sp. n.; **Baker, 5.**

United States, Kansas, Unionidæ; **Scammon.**

United States, Michigan, Molluscs of Poreupine Mountains; **Walker & Ruthven.**

United States, Michigan, fauna; **Walker, 5, 6.**

United States, Michigan, shells from Alpena; *Lymnaea* sp. n.; **Baker, 3.**

United States, Mississippi and Alabama, shells from; **Hinkley.**

United States, Wisconsin; fauna; **Chadwick, 1, 2.**

### C. & S. America & W. Indies. *h*

America, Urocoptidæ spp. n.; **Bartsch, 2.**

Panama, *Drymaeus* sp. n.; **Da Costa, 1.**

(?) Cuba, *Pleurodonte manifesta* sp. n.; **Fulton, 4.**

S. America, fauna of Lakes Titicaca and Poopo; **Bavay** in **Neveu-Lemaire** and others (142-7).

Colombia, *Drymaeus* spp. n.; **Da Costa, 1.**

Brazil, *Drymæus* sp. n.; **Da Costa**,  
1.

Peru, *Drymæus*, *Goniostomus*, *Neocyclotus* spp. n.; **Da Costa**, 3.

Brazil, *Macrodonates* spp. n. **Thiele**,  
5.

Peru, *Amphicyclotus*, *Neocyclotus*,  
spp. n.; **Da Costa**, 1.

**Australasia, New Guinea, New  
Caledonia, etc.** i

N. W. Australia, *Limnea* sp. n.;  
**Preston**, 2.

New Guinea, *Chloritis* spp. n.; **Gude**,  
1, 2.

New Ireland, *Chloritis* spp. n.; **Gude**,  
1, 2.

New Mecklenburg, *Chloritis* sp. n.;  
**Gude**, 1.

Torres Straits, *Chloritis* sp. n.; **Gude**,  
1.

Queensland, *Pupina*, *Pupinella* spp.  
& var. n.; **Fulton**, 2.

Queensland, *Chloritis* spp. n.; **Gude**,  
2.

New South Wales, *Chloritis* spp. n.;  
**Gude**, 1.

New Zealand, *Phrixgnathus* sp. n.;  
**Webster**, W. H., 2.

New Hebrides, *Omphalotropis*, with  
var. n.; **Ancey**, 6.

### Pacific.

Marianne Is., *Diplommatina*, *Limnea*,  
*Melania*, *Realia* spp. n.; **Bavay**, 4.

Hawaiian Is., species of *Endodonta*  
and *Opeas*; **Pilsbry & Vanatta**, 1.

Hawaiian Is., *Sphyradium* spp. n.;  
**Pilsbry & Cooke**.

Hawaiian Is., Achatinellidæ of Molo-  
kai; *Achatinellastrum*, *Laminella*  
spp. n.; **Borchherding**.

Hawaiian Is., *Amastra*, *Newcombia*,  
*Partulina* spp. n.; **Baldwin**.

### Antarctic.

Kerguelen, occurrence of *Patula*  
*Hookeri*; **Richters** in **Drygalski**.  
*Deutsche Südpolar-Exped.*, 10, Zool.,  
Berlin (G. Reimer) 1906, (298).

### (b) FOSSIL.

#### General.

Types of D'Orbigny's "Prodr. Pa-  
léont. strat. univ." reviewed and figured;  
**Boule & Thévenin**.

Summary of geological range of  
Mollusca; **Plant**.

England, fossils of Macclesfield, &c.;  
**Pocock**.

England, fossils of Sidmouth and Lyme  
Regis; **Woodward & Ussher**.

France, fauna of environs of Nîmes;  
**Roman**.

Italy, Triassic and Permian fossils  
from Calvaro; **Mariani**.

N. Alps, Inoceramidæ of the Flysch;  
**Petrascheck**, 2.

Madagascar, fauna; **Boule, Thévenin &  
Lambert**.

Madagascar, fossils; **Thévenin**, 1, 2.

United States, fauna of Indiana;  
**Greene**.

United States, paleontology of Scho-  
harie Valley, New York; **Grabau**.

United States, fossils from the Big-  
horn Basin, Wyoming; **Fisher**.

Patagonia, Cretaceous and Tertiary  
fossils; *Cucullæa*, *Diplodon*, *Helcionis-  
cus*, *Modiola*, *Rostellaria*, *Strophocheilus*  
spp. n.; **Ihering**, 1.

Antarctic, Ammonites from Graham  
I.; **Kilian**.

#### Cainozoic.

France, dept. l'Aude, few fossils;  
**Doncieux**.

California, spp. n.; **Rivers**.

California, Pectinidæ; **Arnold**.

New Zealand, fossils from the  
Clarendon Phosphate-deposits, Otago;  
**Andrew**.

#### Post-Tertiary.

Sweden, fauna of Gotland; **Halle**.

Norway, fossils from Skrellene;  
**Øyen**, 2.

S. Norway, fauna of raised beaches;  
**Øyen**, 1.

Denmark, Glacial fauna of Stenstrup;  
**Madsen**.

Iceland, *Purpura lapillus* in raised beaches; **Bárðarson**.

Russia, fauna of Gera; **Weiss**, 2.

Germany, fossils from the Loess of Regensburg; **Clessin**, 1.

Germany, Pleistocene shells from Regensburg; **Clessin**, 4.

Germany, Loess fossils from the Danube district; **Clessin**, 5.

British Is.; pocket guide to non-marine fauna; **Swanton**, 1.

England, Post-glacial deposit at Hornsea; **Sheppard**, 2.

England, Holocene fauna of Staines and Wargrave; **Kennard & Woodward**, 1.

England, *Vertigo parcedentata*, Holocene; **Kennard & Woodward**, 2.

Ireland, Mollusca from caves; **Scharff**, 1.

Ireland, kitchen midden in Co. Down; **Welch**, 3.

N. France, fauna of Saint-Acheul; *Bythiospecum* sp. n., *Helix* var. n.; **Babor**, 1.

France, Alpes Maritimes, fauna; *Helix*, *Hyalina*, *Testacella* spp. n.; **Maury & Caziot**, 2.

France, Alpes Maritimes, *Caziotia* gen. and sp. n.; **Pollonera**, 1.

France, Alpes Maritimes, shells from St. Jean; **Maury & Caziot**, 1.

France, fauna of Nice; **Caziot**, 4.

Italy, fauna of Salustro; **Scalia**, 1.

Italy, fossils from Catania; **Scalia**, 2.

Switzerland, fossils from the Thurtal; **Wegelein**.

Alluvial fossils from Pürkglut; **Clessin**, 2.

Hungary, Diluvial *Neritina* of the Balatonsee district; **Kormos**, 2.

Java, fauna; *Ancillaria*, *Atys*, *Columbella*, *Conus*, *Fusus*, *Hindsia*, *Latirus*, *Lypia*, *Marginella*, *Melania*, *Melongena*, *Metula*, *Mitra*, *Nassa*, *Neritina*, *Oliva*, *Phos*, *Pleurotoma*, *Potamides*, *Pyramidella*, *Strombus*, *Terebra*, *Tritonidea*, *Trochus*, *Turbonilla*, *Turricula*, *Voluta* spp. n.; **Martin**.

Amboina, fossils; **Boettger**, O., 2.

(N-9720 r)

Japan, fauna; *Arca*, *Astarte*, *Cardita*, *Cardium*, *Cerithium*, *Cylichna*, *Dentalium*, *Eulima*, *Lasaea*, *Lima*, *Lutraria*, *Mysia*, *Odostomia*, *Ostrea*, *Pecten*, *Pleurotoma*, *Rissoa*, *Tellina*, *Trochus*, *Turbonilla* spp. n.; **Tokunaga**.

Japan, Diluvial shells; **K**.

S. Africa, raised beach fauna near Klein Brak River; **Rogers**.

N. America, Loess, *Helicina occulta*; **Shimek**.

Canada, marine and fresh-water fauna Anticosti I.; **Schmitt**.

United States, Colorado, fauna of Florissant; *Lymnaea*, *Omphalina*, *Sphaerium* spp. n.; **Cockerell** 1.

United States, Maryland, fauna; **Clark**.

United States, New Mexico, *Oreohelix yavapai*; **Cockerell**, 2.

United States, deposit of *Venus* shells in New York city; **Wilson**, 2.

United States, fauna of Sankaty Head, Nantucket; **Wilson**, 1.

Arctic, marine deposits; **Knipowitsch**, 2.

E. Greenland, Lamellibranchiata; **Jensen**, 1.

Kolguev I., marine shells; **Knipowitsch**, 1.

Bermuda, fauna, with spp. n.; **Verrill**.

### Tertiary.

Cerithiidae, notes on; **Boussac**.

Europe, Upper Tertiary fauna of Mediterranean region; **Hoernes**, 1.

Fauna of Mandrikowka; *Arca*, *Nucula*, *Pecten*, *Pectunculus*, spp. n.; **Sokolow**.

Fauna of the Maeotische Stufe; *Avimacra*, *Cardium*, *Dosinia*, *Macra*, *Mohrensternia*, *Nassa*, *Pyrgula*, *Trochus*, spp. n.; **Andrussow**.

Russia, Miocene fossils from Novocherkassk; *Pholas*, *Tapes*, *Turritella* spp. n.; **Bogatchew**.

Germany, list of shells from Kassel; **Hornstein**.

Germany, few Miocene fossils from near Domitz; **Metzmacher**.

Germany, Miocene fauna of Lüneburg; *Astarte* sp. n.; **Wollemann**, 3.

Germany, Middle Oligocene fossils from Kreuznach; **Delkeskamp**.

Netherlands, Upper Oligocene fossils from Tégclen; **Dubois**.

England, shells from Woolwich and Reading Beds, New Cross, London; **Robarts**.

France, lists of fossils from the Paris Basin with critical notes; *Planorbis*, *Limnea*, sp. n.; **Dollfus**, 2 (23-4).

France, Sparnacian of Paris Basin; **Combes**.

France, few Paris Basin shells; **Leriche**, 2.

France, Paris Basin Cephalopoda; **Alessandri**.

S. E. France, Lower Campanian fauna; *Actaeonella*, *Amauropsis*, *Anomia*, *Aporrhais*, *Arca*, *Arcopagia*, *Astarte*, *Astrarium*, *Cardium*, *Cerithium*, *Corbicula*, *Corbula*, *Cucullaea*, *Cyrena*, *Cytherea*, *Dejanira*, *Dentalium*, *Fimbria*, *Fusus*, *Isocardia*, *Leda*, *Lima*, *Lucina*, *Mactra*, *Modiola*, *Neaera*, *Neritina*, *Ostrea*, *Solen*, *Tapes*, *Thracia*, *Tritonium*, *Trochus*, *Turritella*, *Voluta* spp. n.; **Repelin**.

France, fauna near Biarritz; *Cyprædia*, *Cytherea*, *Diastoma*, *Entritonium*, *Gibbula*, *Marginella*, *Metula*, *Mitra*, *Nassa*, *Pleurotoma*, *Streptocheilus*, *Sycum*, *Syrnola* spp. n.; **Oppenheim**, 2.

France shells from Lower Charente; **Degrange-Touzin**.

France, Middle Miocene Pelecypoda from the Loire Basin; **Dollfus & Dautzenberg**.

France, Redonian fauna of Gourbesville; **Dollfus**, 1.

Spain, Oligocene fossils of Cataluna; **Vidal & Deperet**.

Italy, Middle Miocene fauna near Turin; **Bellini**.

Italy, fauna of Piedmont; **Sacco**.

Italy, Eocene fossils from Monte Postale; *Vicetia* gen. n.; **Fabiani**.

Italy, Rognacian fauna of Castigno; **Miquel**.

Italy, fossils from the Trasimeno basin; **Ristori**.

San Marino, fauna; **Trabucco**.

San Marino, Miocene fossils from Monte Titano; **Nelli**.

Sardinia; Pectinidae, *Acquiptecten*, *Chlamys*, *Flexiptecten*, *Gigantoptecten*, *Inaequiptecten* (gen. n.) spp. n.; **Ugolini**.

Hungary, Miocene fauna of Kostež; *Cancellaria*, *Chenopus*, *Clathurella*, *Columnbella*, *Coralliophila*, *Daphnella*, *Drillia*, *Fusus*, *Haedropleura*, *Leptococonchus*, *Mangilia*, *Miæraclis* (gen. n.), *Mitra*, *Murex*, *Nassa*, *Natica*, *Parvifusus*, *Peratotoma*, *Pliciscala*, *Pollia*, *Pseudotoma*, *Rhaphitoma*, *Scala*, *Surcula*, *Terebra* spp. and var. n.; **Boetger**, O. 1.

Hungary, Aquitanian, *Melongena* var. n.; **Hoernes**, 2.

Hungary, Miocene fauna of Budapest; *Aspergillum* sp. n.; **Vadasz**.

Galicia, Miocene fossils from Lemberg; **Lomnicki**.

Galicia, Miocene shells from Rzeszow; **Friedberg**, 2.

W. Galicia, Sarmatian fossils; *Pupa* sp. n.; **Friedberg**, 1.

Croatia, Pontian fauna; **Gorganovic-Kramberger**.

Istria and N. Dalmatia, lists of Middle Eocene fossils; **Schubert**.

C. Asia and China, land and fresh-water shells; *Limnacus*, *Planorbis*, *Valvata* spp. n.; **Schlosser**.

Japan, fossils from near Tokyo, with numerous figures; **Tokunaga**.

Philippine Is.; *Arca*, *Drillia*, *Macoma*, *Nerita*, *Pteropsis*, *Semele*, *Strombus*, *Tapes*, *Vicarya* spp. n., etc.; **Smith**, W. D., 2.

Egypt, fauna; *Ancilla*, *Arca*, *Bulla*, *Cancellaria*, *Cardium*, *Cassis*, *Cerithium*, *Collonia*, *Conus*, *Corbula*; *Cypraca*, *Cytherea*, *Dentalium*, *Discohelix*, *Ficala*, *Fissurella*, *Fistularia*, *Fusus*, *Gastrochaena*, *Goneoptyxis*, *Heligmotoma*, *Hippomyx*, *Latrunculus*, *Leptothyra*, *Liolia*, *Marginella*, *Mesalia*, *Mitra*, *Natica*, *Neaera*, *Nerita*, *Oliva*, *Pereiraea*, *Pholadomya*, *Plesiotriton*, *Pleurotoma*, *Psammobia*, *Rostellaria*, *Scalaria*, *Sigaretus*, *Solariella*, *Solarium*, *Sphenia*, *Tellina*, *Terebellum*, *Terredo*, *Thersites*, *Thracia*, *Trochus*, *Tugonia*, *Turritella*, *Voluta*, *Volutilites*, *Xenophora* spp. n.; **Oppenheim**, 1.

United States, Colorado; *Planorbis* sp. n.; **Cockerell**, 4.

United States, Oregon, fauna of the John Day and Marsall beds, spp. n.; **Stearns**.

United States, Texas, few Miocene shells; **Dumble**.

Mexico, fauna; *Cominella*, *Conus*, *Dalium* (sic), *Dentalium*, *Limopsis*, *Marginella*, *Oliva*, *Pecten*, *Phos*, *Pleurotoma*, *Sigaretus*, *Solarium*, *Trophon*, *Turritella*, *Venus*, *Vermetus* spp. n.; **Böse**, 1.

Panama; *Dreissensia*, *Melania* spp. n., etc.; **Joukowsky**, 1.

Panama, few fossils; **Joukowsky**, 2.

S. Australia, Eocene fossils; *Niso*, sp. n.; **Pritchard**, 1.

### Mesozoic.

Russia, Gouv. Simbirsk, Jurassic and Neocomian fossils; **Towarow**.

Germany, fossils from near Freiburg; **Seidlitz**.

England, Belemnites of the Speeton Clays; **Danford**, 1.

England, Ammonites of the Speeton Clays; **Danford**, 2, 3.

Portugal, *Gervillia*, *Tylostoma*, spp. n., etc.; **Choffat**.

Italy, fossils from Trevi; **Parona**, 2.

Galicia, fossils; *Arcea*, *Circe* spp. n.; **Wisniowski**.

Transylvania, fossils; **Koch**.

Montenegro, Cephalopoda; **Martelli**, 2.

Singapore, *Astarte*, *Cucullaea*, *Gervillia*, *Goniomya* spp. n., etc.; **Newton**, 2.

### Cretaceous.

Radiolitidae; **Toucas**.

W. Caucasus, fauna of the "Dibrar-System"; *Actinocamax* mut. n.; **Bogdanovic**.

Germany, Gastropoda and Lamelli-branchiata of the Grodischten Schichten; **Ascher**, 1, 2.

Germany, fauna of Schaumburg-Lippe; *Acteon*, *Avicula*, *Cinilia*, *Leda*, *Lima*, *Nucula*, *Pinna*, *Pleurotomaria*, *Ptychogyra* (gen. n.), *Ptychomya*, *Siliqua*, *Solecurtus*, *Tellina*, *Thetis*, *Trochus* spp. n., **Harbort**.

(n-9720 r)

Hanover, Ems strata of Luneburg; *Mortinoceras*; **Wollemann**, 4.

Hanover, few shells from Misburg; **Wollemann**, 2.

Brunswick, Turonian fossils; **Wolle-  
mann**, 1.

Brunswick, Lower Senonian Cephalopoda; *Crioceras*, *Nautilus*, *Schluteria* spp. n.; **Müller & Wolle-  
mann**.

Silesia, Neocomian "*Rhyncholithes*," spp. n.; **Till**.

England, monograph of Pelecypoda, *Anthonya*, *Astarte*, *Cardita*, *Crassatellites*, *Opis* spp. n.; **Woods**, 1.

England, Neocomian Belemnites from Speeton Clays; **Sheppard**, 1.

England, occurrence of *Actinocamax grossourei* in the Yorkshire Chalk; **Crick**, 2.

England, Yorkshire, Belemnites of Chalk; **Sherborn**.

England, Lincolnshire, Upper Chalk fossils; **Burnet**.

England, *Exogyra sinuata* in the Lower Greensand, Oxford; **Dawkins**.

France, *Nerita* sp. n., Campanian, Gensac; **Pethö**.

Italy, Upper Cretaceous fossils of the Appennines; **Parona**, 1.

Italy, Rognacian fauna of Castigno, *Bulimus*, *Limca*, *Physa* spp. n.; **Caziot**, 5.

N. Alps, Inoceramidae of the Gosau beds; **Petrasccheck**, 2.

E. Bohemia, fossils from the *Actinocamax plenus* zone, with notes; *Lima*, *Pecten* spp. n.; **Petrasccheck**, 1.

Lists of fossils from the neighbourhood of Budigsdorf; **Wilschowitz**.

Austria, Neocomian fossils from Kaltenleutgaben; *Schloenbachia* sp. n.; **Richarz**.

Galicia, Lower Senonian fossils from Bonerka, Krakow; *Inoceramus* spp. n.; **Smolenski**.

Hungary, Upper Senonian fauna, Peterwardermer Gebirge; **Pethö**.

Balkans, *Itieria*, *Lucina*, *Nerinaea* spp. n., etc.; **Oppenheim**, 3.

Borneo, fauna of the Silat formation; **Icke & Martin**.

Morocco, list of fossils; **Kilian & Gentile**.

Algeria, Gault and Cenomanian fossils; **Blayac**.

Algeria, fauna of Oran; **Ficheur & Doumergue**.

Tripoli, fauna; *Alectryonia*, *Corbis*, *Crassatella*, *Cypraea*, *Exogyra*, *Fusus*, *Strombus*, *Trigonia*, *Turritella* spp. n.; **Krumbeck**.

Madagascar, Cephalopoda; *Phylloceras* sp. n.; **Boule, Lemoine & Thévenin**.

S. Africa, fauna of Pondoland; *Astarte*, *Baculites*, *Barbatia*, *Cardium*, *Crassatellites*, *Eriptycha*, *Liopistha*, *Meretrix*, *Modiola*, *Nerita*, *Pecten*, *Pirifusus*, *Pugnellus*, *Pyropsis*, *Rostellites* spp. n.; **Woods**, 2.

United States, fauna of the Cliffwood Clays of New Jersey, *Isocardia* sp. n.; **Weller**, 1.

Mexico, Senonian, fauna of Cárdenas; *Aceonella*, *Binadiolites*, *Cerithium*, *Coralliochama*, *Lima*, *Natica*, *Ostrea*, *Plesioptygmatis* (subgen. n.), *Turritella* spp. n.; **Böse**, 2.

Argentina, Upper Cretaceous fauna of Roca, Rio Negro; **Burckhardt**.

Antarctic, Ammonoidea; **Kilian**.

## Jurassic.

Ammonoidea of Upper Lias; *Collina*, *Coloceras*, *Hammatoceras*, *Harpoceras*, *Hildoceras*, *Lytoceras* spp. n.; **Parisch & Viale**.

Notes on Toarcian *Coeloceras*; **Joly**.

S. Europe, Nautilidae; spp. n.; **Prinz**, 3.

C. Europe, gen. n. (un-named) of triassic Ammonoidea; **Stolley**.

Russia, Arcidae; *Arca*, *Cucullaea*, *Dicranodonta*, *Macrodon* spp. n.; **Borissjak**, 1.

Russia, Mytilidae; *Lithodomus*, *Modiola* spp. n.; **Borissjak**, 2.

W. Caucasus, fossils from Gepze; **Bogdanovic**.

Germany, fossils from the Bayrische Wald; **Wanderer**.

Germany, Ammonoidea from Enin-gen; **Gussmann**.

British Is., Liassic *Dentalium*, review with spp. n.; **Richardson**, 1.

British Is., Lias, *Schlotheimia* spp. n.; **Buckman**.

England, Upper Lias fossils from Stroud; **Upton**.

England, Lias fossils from Worcester; **Richardson**, 2.

France, addenda to Pelecypod fauna; *Anatina*, *Cardium*, *Ceratomya*, *Cuspidaria*, *Machomya*, *Unicardium* spp. n.; **Cossmann**.

France, Toarcian fossils from Macon; **Lissajous**.

France, Rauracian and Sequanian Pelecypoda of Youne; **Péron**.

France, few Toarcian fossils from near Lyons; **Roux & Collet**.

Italy, Lower Lias fossils from near Spezia; **Fucini**, 1.

Italy, Lower Lias fossils from near Perugia; **Mercial**.

Switzerland, lists of Lower Oxfordian fossils from the Bernese Jura; **Aeberhardt**, 1.

Moravia, Portlandian fossils from boulders of the "Stramberger Kalkstein," Rychaltitz; **Remeš**, 1, 2.

Moravia, *Amaltheus margaritatus* from Freistadt; **Oppenheimer**.

Hungary, lower Jurassic Nautilidae spp. n.; **Prinz**, 1.

Hungary, *Dumortieria* spp. from Piszke; **Prinz**, 4.

Hungary, *Frechiella* sp. n. Lias; **Prinz**, 3.

S. Carpathians, fauna; *Lytoceras*, *Perisphinctes* spp. n.; **Simionescu**.

Greece, *Halobia*, *Daonella*; **Renz**, 3.

Greece, few fossils; **Renz**, 2.

W. Greece, fauna of the Dogger; **Renz**, 1.

Asia, *Halobia*, *Daonella*; **Renz**, 3.

Buru I., Cephalopoda; **Kossmat**.

Madagascar, fossils; **Lemoine**.

United States, fauna of the Black Hills, N.Y.; *Ammonites*, *Astarte*, *Belemnites*, *Modiola*, *Modiolarca*, *Neritoma*, *Pholadomya*, *Pinna*, *Pleuromya*, *Quenstedtia*, *Septifera*, *Tancredia*, *Trigonia* spp. n.; **Whitfield & Hovey**.

United States, Wyoming, the supposed Jurassic fossils collected by Frémont; **Veatch**.

Argentina, Liassic fauna of Piedra Pintada, (Neuquen); **Burckhardt** in **Roth, Kurtz & Burckhardt**.

Arctic, Franz Josef Land, Cephalopoda; **Whitfield**.

### Triassic.

Ammonoidea; **Diener, 2**.

The Ceratitidæ of the Muschelkalk; **Diener, 3**.

Germany, fauna; *Arniotites*, *Balatonites*, *Beneckeia*, *Pleuromutilus* spp. n.; **Fritsch**.

Lamellibranchiata of the Frombach-tuffe; **Waagen, 1**.

Montenegro, Cephalopoda; *Aerochordiciras*, *Ceratites*, *Monophyllites*, *Pinacoceras*, *Ptychites* spp. n.; **Martelli, 1**.

Greece, Ammonites from the Muschelkalk of Epidaurus; **Frech, 1**.

Greece, few fossils; **Frech & Renz**.

Baluchistan, Upper Triassic fauna; *Rhacophyllites* sp. n.; **Diener, 6**.

India, Middle and Upper Triassic faunas of Spiti; **Diener, 4**.

India, Cephalopoda from the *Halorites* Limestone; *Halorites*, *Martolites*, *Sirenites* spp. n.; **Diener, 5**.

Himalaya, Upper Triassic Cephalopoda; **Diener, 1**.

### Palaeozoic.

*Volborthella*; **Karpinsky**.

Russia, fauna of Podolia; *Anarcestes*, *Climoceras*, *Edmondia*, *Grammysia*, *Leptodomus*, *Modiolopsis*, *Murchisonia*, *Platyceras* spp. n.; **Siemiradzki, 1**.

Russia, fauna of Podolia; **Siemiradzki, 2**.

British Is., *Lophospira*, *Omospira*, *Turritoma* spp. n.; **Donald**.

England, fossils from Haverfordwest; *Bellerophon*, *Eotomaria* spp. n.; **Reed, 2**.

Italy, Permo-Carboniferous fauna of Forni Avoltri; *Aviculopecten*, *Loxonema*, *Macrocheilus*, *Straparollus* spp. n.; **Gortani, 1**.

Bohemia, *Conularia*; **Želízko, 2**.

S. Africa, fossils from Grahamstown; *Nuculites*, *Orthoceras*, *Palaeoneilo*, spp. n.; **Schwartz**.

Canada, faunas of Manitoba; *Cyrtoceras*, *Ilionia*, *Pterinea*, *Spyroceras* spp. n.; **Whiteaves, 2**.

Canada, fossils from Ottawa; **Whiteaves, 4**.

Canada, *Nanno* spp. n. Cambrosilurian; **Whiteaves, 6**.

United States, Upper Silurian and Lower Devonian faunas of Trilobite Mt., N.Y., *Nuculites* sp. n. *Conularia* var. n.; **Shimer**.

South Australia, few fossils from Northern Territory; **Etheridge**.

### Permian.

Fauna of the Bellerophon formation of Carnia; *Avicula*, *Bellerophon*, *Cassianella*, *Gervillia*, *Hoernesia*, *Liebea*, *Murchisonia*, *Myophoria*, *Pecten*, *Pseudomonotis*, spp. n.; **Gortani, 2**.

### Carboniferous.

Value of Mollusca in stratigraphy; **Stobbs**.

England, fossils from the Cheadle coalfield, Stafford; **Ward**.

England, fossils from the Midlands; **Hind**.

England, *Anthracomya* at Radstock; **Watson**.

Scotland, fossils from the Rouken Glen, Glasgow; **Macnair**.

Belgium, fossils from Hainaut; **Cornet, 2**.

Belgium, list of fossils from neighbourhood of Mons; **Cornet, 1**.

Carnian Alps, fauna; *Astarte*, *Aviculopecten*, *Bellerophon*, *Conocardium*, *Murchisonia*, *Myophoriopsis* spp. n.; **Vinassa de Regny & Gortani**.

Bohemia, Lamellibranchiata; *Anthracosia*, *Palaeonodonta* spp. n.; **Schmidt, A**.

Hungary, marine fauna; with *Bellerophon*, *Euphemus* spp. n.; **Frech, 2**.

N. America, fauna of the Glen Park Limestone; *Bellerophon*, *Cypricardina*,

*Macrodon*, *Modiola*, *Modiomorpha*,  
*Naticopsis*, *Nucula*, *Orthonychia*,  
*Platyceras*, *Ptychomphalus* spp. n.;  
Weller, 2.

New South Wales, Pectinidae; *Aviculopecten*, *Dellopecten* spp. n.; Ethe-  
ridge & Dun.

### Devonian.

Germany, fauna between Letmathe  
and Iserlohn; *Aviculopecten*, *Cypri-*  
*cardella*, *Dihelice* (gen. n.), *Grammysia*,  
*Leptodesma*, *Modiomorpha*, *Myalina*,  
*Platyceras*, *Sphenotus* spp. n.; Schmidt,  
E.

England, notes on Cephalopoda from  
N. Cornwall; Crick, 1.

Sahara, fossils; Haug.

S. Africa, fauna; *Buchiola*, *Sanguino-*  
*lites* spp. n.; Reed, 1.

United States, Iowa, Gastropoda from  
the Lower and Middle beds of the  
Hackberry group; *Haloepa*, *Naticopsis*,  
*Platystoma*, *Pleurotomaria* spp. n.;  
Webster, C. L.

United States, fossils from New York;  
Slocum.

S. America, list of fossils from the  
lower Amazon; Schuchert.

### Silurian.

Fauna of oldest Russian strata;  
Lamansky.

Bohemia, fossils from near Rosenthal;  
Želízko, 1.

Canada, fauna of Anticosti I.;  
Schmitt.

Canada; *Actinoceras*, *Ambonychia*,  
*Ctenodonta*, *Gyronema*, *Megalomphala*,  
*Mytilarca*, *Orthoceras*, *Orthonychia*,  
*Phragmoceras*, *Platyceras*, *Salpingo-*  
*stoma*, *Strophostylus* spp. n., etc.;  
Whiteaves, 1.

Canada, fauna of the Guelph forma-  
tion of Ontario; Whiteaves, 5.

### Ordovician.

N. America, fauna of the Chazy  
formation; spp. n.; Raymond, P. E., 1.

United States, Cephalopoda of the  
Beekmantown and Chazy formations of  
the Champlain basin with spp. n.;  
Ruedemann, 2.

### Cambrian.

China, *Cyrtoceras*, *Hyolithes*, *Ortho-*  
*theca*, *Platyceras*, *Scenella*, *Stenotheca*,  
*Straparollina* spp. n.; Walcott, 1.

China, *Platyceras*, *Scenella*, *Steno-*  
*theca*; Walcott, 2.

## III. SYSTEMATIC 2231 INDEX.

### GENERAL.

Types of D'Orbigny's "Prod. Paléont.  
strat. univ." reviewed and figured,  
BOULE & THEVENIN, Paris, Ann. Paléont.,  
1.

Manual of British land and fresh-  
water shells, ADAMS, 1.

Pocket Guide to British non-marine  
recent and Post-pliocene fauna; SWANTON,  
1.

Pleistocene Mollusca of Maryland;  
CLARK.

### AMPHINEURA.

Aplacophora gen. n. v. *Archacomenia*.

Polyplacophora gen. n. v. *Tonicina*.

Polyplacophora of the German deep-  
sea expedition, THIELE, 2.

Chitonidae, distribution and recent  
literature, NIERSTRASZ, Helder, Tijdschr.  
Ned. Dierk. Ver. (Ser. 2) 10 (141-72).

*Acanthochites variegatus* sp. n. Natal,  
NIERSTRASZ, Zool. Jahrb., Syst. 23 (487-  
520).—*A. fascicularis* Linne varr. n.  
*lutescens*, *cinnabrina*, *fusca*, *A. discrepans*  
Brown var. n. *violaceo-limbata*, DAUTZEN-  
BERG & DUROUCHOUX, Feuilles jeunes  
natural. Paris 36.

*Archacomenia* gen. n., *A. prisca*,  
sp. n. Agulhasbank, THIELE, Wiss. Erg.  
D. Tiefsee-Exp., 9 (315-24).

*Callochiton (Isoplax) bouveti* sp. n.  
Bouvet-Insel, THIELE, Wiss. Ergebn. D.  
Tiefsee-Exp., 9 (330).

*Chiton*, anatomy, HALLER.—*C. huttoni*  
sp. n. near Dunedin, N.Z., SUTER,  
Wellington, Trans. N. Zeal. Inst. 38  
(320).—*C. (Radsia) chierchiai* sp. n.  
Galapagos, NIERSTRASZ, Helder, Tijdschr.  
Ned. Dierk. Ver. (Ser. 2) 10 (141-172).

*Chondroleura* v. *Ischmochiton*.



*Ischnochiton rissoi* Payr. Naples, NIERSTRASZ, Helder, Tijdschr. Ned. Dierk. Ver. (Ser. 2) **10** (141-172).—*I. (Chondropleura) affinis*, Neu Amsterdam, *simplicissimus* Cap. der guten Hoffnung, THIELE, Wiss. Ergebn. D. Tiefsee-Exp. **9** (334-5).—*Ischnochiton laevis* Montagu, *marginatus* Pennant **var. n.** DAUTZENBERG & DUROUCHOUX Feuilles jeunes natural., Paris **36**.

*Isoplaax* v. *Callochiton*.

*Lepidopleurus africanus* sp. n. Oran, Mediterranean, NIERSTRASZ, Helder, Tijdschr. Ned. Dierk. Ver. (Ser. 2) **10** (141-172).—*L. andamanicus* sp. n. Bay of Bengal, SMITH, Ann. Mag. Nat. Hist., London **18** (251).—*L. niasicus* sp. n. Nias-Kanal, THIELE, Wiss. Ergebn. D. Tiefsee-Exp. **9** (327).

*Notochiton mirandus* sp. n. Bouvet-Insul, THIELE, Wiss. Ergebn. D. Tiefsee-Exp. **9** (332).

*Plaxiphora parva* sp. n. Mozambique, NIERSTRASZ, Zool. Jahrb., Syst. **23** (487-520).

*Radsia* v. *Chiton*.

*Tonicella ruber* var. n. *index* BALCH, Nautilus **20** (62).

*Tonicina* gen. n. for *Chiton zschaui*, THIELE, Bul. Muséum, Paris **12** (549).

#### GASTROPODA.

Review of recent morphological and biological works; SIMROTH, **6**.

Review of recent faunistic works; SIMROTH, **7**.

Statistical study of variation in shell, MALARD, Bul. Muséum, Paris **12** (321-329).

Spermatozoa, RETZIUS, Biolog. Untersuch. N.F. **13** (1-36).

#### (a) *Prosobranchiata*.

Trochidae gen. n. v. *Margaritopsis*.

Liotiidae, review of Persian Gulf and North Arabian Sea forms, MELVILL, London, Proc. Malac. Soc. **7** (27-28).

Cyclostrematidae, review of Persian Gulf and North Arabian Sea forms, MELVILL, London, Proc. Malac. Soc. **7** (20-8).

Neritidae, structure of shell, classification and phylogeny, PETNÖ, Paleontographica **52** (109-32).

Realiidae, synopsis, KOBELT, Wiesbaden, Jahrb. Ver. Natk. **59** (47-144).

Aciculidae gen. n. v. *Caziotia*.

Rissoiidae gen. n. v. *Lanzaia*.

Assimineidae gen. n. v. *Assiminella*.—Notes on European, MONTEROSATO, **1**.

Truncatellidae, notes on European, MONTEROSATO, **1**.

Melaniidae gen. n. v. *Paludinopsis*.

Cerithiidae, notes on Tertiary forms BOUSSAC, Paris, Bull. Soc. geol. **5** (669).

Marseniidae gen. n. v. *Lamellariopsis*.

Cypraeidae gen. n. v. *Vicetia*.—Notes on species from Tuamotu and Mangareva, VAYSSIÈRE, Bul. Muséum, Paris **1906** (115-9).

Scalariidae gen. n. v. *Dihelice*.

Pyramidellidae, notes on Japanese, Indo-pacific and American spp., DALL & BARTSCH.

Aclidae gen. n. v. *Micraclis*.

Mitridae of W. America, WILLIAMSON, Washington, D.C., Proc. Biol. Soc. **19** (193-7).

Buccinidae, variation in radula, LEBOUR, Leeds, J. Conch., **11**, (282).

Fusidae gen. n. v. *Manaria*.

Melongenidae, distribution, HOERNES, **2**.

Volutidae gen. n. v. *Adelomelon*, *Harpulina*, *Volutospina*.

Pleurotomidae of "Porcupine" Expedition, SYKES.

*Aclis semireticulata* sp. n. N. Zealand, MURDOCH & SUTER, Wellington, Trans. N. Zeal. Inst. **38** (294).

†*Aclis proascaris* Sacco, Miocän, Ungarn, BOETTGER, Verh. u. Mitth. d. siebenb. Ver. f. Naturw. **54** (98).

*Acmaca testudinalis*, anatomy, WILLCOX, Amer. Nat. **40** (171-187).

*Acme layoni* sp. n. Genoa, POLLONERA, Torino, Boll. Musei Zool. Anat. **20** No. 517 (2).

†*Acrilla* v. *Scalaria*.

*Acropylehia*, note, ANGEY, J. Conchyl. liol. **53** (325).

†*Acrostoma* v. *Melania*.

*Actaeopyramis* v. *Pyramidella*.—*A. minutissima* sp. n. Cape Verd Is., DAUTZENBERG & FISCHER, Monaco, Res. Camp. sci. **32** (55-6).

*Adelomelon* nom. n. = *Scaphella* auct. not of Swainson, type *Voluta ancilla* Solander, DALL, Nautilus **19** (143).

†*Admete nassiformis* (Segu.) var. *dreyeri* Hö. Au., *nystis* (M. Hö.) Miocän, Ungarn., BOETTGER, Verh. siebenb. Ver. Naturw. **54** (51-52).

*Alaba sulcata* Watson proves to be apex of *Strombus campbelli* Gray, HEDLEY, Sydney N.S.W. Proc. Linn. Soc. **30** (523).

*Aleithoe* v. *Fulguraria*.

*Alectryon* v. *Nassa*.

*Alvania subcalathus* [Monterosato MS.] sp. n. Santa Luzia, C. Verd Is., DAUTZENBERG & FISCHER, Monaco, Res. Camp. sci. **32** (47-8).

*Alycaeus varius* sp. n. Formosa, PILSBRY, Philadelphia, Pa., Proc. Acad. Nat. Sci. **57** (729).

*Amalthea* subgen. n. v. *Malluvium*.—*A. hexagona* sp. n. Chatham Is., SUTER, Wellington, Trans. N. Zeal. Inst. **38** (326).

*Amaura* v. *Odostomia*.

†*Amauropsis* v. *Natica*.—*A. subbulbiformis* sp. n. Lower Campanian, S.E. France, REPELIN, Marseille, Ann. Mus. **10** (39).

*Amnicola comalensis* sp. n. S.W. States' PILSBRY & FERRISS, Philadelphia, Pa., Proc. Acad. Nat. Sci. **58**.—*A. pilsbryi* sp. n. United States, WALKER, Nautilus **19** (114-7).

*Amphicyclotus chanchapoyasensis* sp. n. Peru, DA COSTA, London, Proc. Malac. Soc. **7** (9).

*Ampullaria*, BOETTGER, Frankfurt a. M., Nachrbl. D. malakozool. Ges. **38** (219-20).—*A. chariensis* sp. n. Central Africa, GERMAIN, Bul. Muséum, Paris **11** (487).—*A. polita* Deshayes, *turbinis* Lea varr. n., DAUTZENBERG & FISCHER, J. Conchyl. liol. **53** (426-8).—*A. gigas* oviposition, ROTH, Natur u. Haus **14** (97-9).

†*Ampullina* v. *Natica*.—*A. amphora* Heilprin, Tertiary, Panama, figd., JOUKOWSKY, Genève, Mém. Soc. Phys. **35** (174).

*Anachis* v. *Columbella*.

*Ancilla alcocki* sp. n. Bay of Bengal, SMITH, Ann. Mag. Nat. Hist. London **18** (172).—*A. ordinaria* sp. n. South Africa, SMITH, Ann. Natal Govt. Mus. **1** (27).

†*Ancilla (Sparella) aegyptiaca* sp. n. Lutetian, Egypt, OPPENHEIM, Palaeontographica **30** (330-1).

†*Ancillaria rembangensis* (298), *javana* (299) spp. n. Java, MARTIN, Lieden, Samml. geol. Reichsmus. (2) 1.

†*Anomphalus rotuliformis* sp. n. CUMINGS, Indiana, Rep. Dept. Geol. Nat. Res. **30**.

*Anura* Bell, includes *Hindsia grimaldii*; *A. clathrata* sp. n. off N.W. Africa, DAUTZENBERG & FISCHER, Monaco, Res. camp. sci. **32** (25-6).

*Aphanitoma locardi* sp. n. W. Atlantic, BAVAY, Bul. Mus., Paris **12** (548).

†*Aporrhais* v. *Chenopus*.—*A. boulei*, *aviformis*, *elegans* spp. n. lower Campanian, S.E. France, REPELIN, Marseille, Ann. Mus. **10** (23-5).—*A. crepidatus* (163-4), (*Arrhoges*) *machaerophorus* (164-5), (*Malaptera*) *minuta* (165) spp. n. Cretaceous, Hungary, PETHŐ, Palaeontographica **52**.—*A. sp.*, WOODS, Cape Town, Ann. S. Afric. Mus. **4** (318).

*Archinacella?* *propria* sp. n. Crown Pt., Valcour and Chazy Limestones, New York, RAYMOND, Pittsburgh, Pa., Ann. Carnegie Mus. **3** (575).

†*Arrhoges* v. *Aporrhais*.

*Assiminea tasmanica* Ten. Woods, radula, geographical distribution, HEDLEY, Sydney N.S.W. Proc. Linn. Soc. **30** (527-8).

*Assiminea* ? gen. n. for *Assiminea littorina*, MONTEROSATO, Naturalista sicil., Palermo **18** (129).

†*Asthenotoma labellum* (Bon.)-Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. **54** (88).

†*Astrarium densiporcatum* (101-2), *undatocoronatum* (102-3), *hoffmanni* (103-4) spp. n. Cretaceous, Hungary, PETHŐ, Palaeontographica **52**.—*A. magnum* (42), *provinciale* (42-3), *fimbriatum* (43) spp. n.

Lower Campanian, S.E. France, REPELIN, Marseille, Ann. Mus. 10.

†*Atoma hypothetica* Bell., *poppelacki* (M. Hö.) Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. 54 (61-2).

*Atropidina* subgen. n. of *Valvata* (q.v.), LINDHOLM, Frankfurt a. M., Nachr.-Bl. D. malakozool. Ges. 38 (190).

*Auritus erika* Montenegro, *georgi* Albanien spp. n., *sturani* subspp. n. *zauinkanus*, *scalariniiformis*, (*Ilolecopoma*) *roscoli* subspp. n. *scutariensis*, *kiriensis*, (*Titanopoma*) *auritus* subspp. n. *alatus*, WAGNER, Frankfurt a. M. Nachr.-Bl. D. malakozool. Ges. 38 (132-8).

*Babella* subgen. n. of *Turbonilla* (q.v.), DALL & BARTSCH, Washington, D.C., Smithsonian Inst., U. S. Nation. Mus. Proc. 30.

†*Basilissa* v. *Trochus*.

*Batlybembix nevilli* sp. n. Bay of Bengal, SMITH, Ann. Mag. Nat. Hist., London 18 (245).

*Bathytoma* v. *Pleurotoma*.—*B. agnata* sp. n. off Sydney 300 fath, HEDLEY & PETERD, Sydney N.S.W., Rec. Austr. Mus. 6 (200).

†*Bathytoma cataphracta* (Brocc.) Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. 54 (65).

†*Bellerophon*, notes on, SIMROTH, Leipzig, Sitzber. Natf. Ges. 1905 (3-8).—*B. anthracophilus* sp. n. Carboniferous, Hungary, FRECH, Földt. Közl. 36 (125).—*B. carnicus* (119), *tommasi* (120), *italicus*, *canevai* (122) spp. n. Permian, Carnia, GORTANI, Riv. Ital. Pal. 12.—*B. crypticus* (363), (?) *multerugatus* (365), *secundus* (366) spp. n. Primary, Haverfordwest, REED, London, Geol. Mag. 3.—*B. de-angelisi* sp. n. Carboniferous, Carnian Alps, GORTANI, Boll. Soc. geol. Ital. 24 (568).—*B. jeffersonensis*, *nirichi* spp. n. Glen Park Limestone, WELLER, St. Louis, Mo., Trans. Acad. Sci. 16 (435-71).

*Bernayia* v. *Cypraea*.

*Bithinia* v. *Bythinia*.—*B. tentaculata*, nervous system, ARBEIHDART, Bern, Mitt. Naturf. Ges. 1905 (117-9).

*Bitium* v. *Cerithium*.—*B. fuscocapitulum* sp. n. off Sydney 300 f., HEDLEY & PETERD, Sydney N.S.W. Rec. Austr. Mus. 6 (217).

*Blanfordia formosana* sp. n. Formosa, PILSBRY, Philadelphia, Pa., Proc. Acad. Nat. Sci. 57 (750).

†*Bonellitia* v. *Cancellaria*.

*Borcetrophon* v. *Trophon*.

†*Brocchinia parvula* (Beyr.) var. *bicarinata* Hö. Au., Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. 54 (51).

†*Bucania catilloides* sp. n., RAYMOND, Pittsburgh, Pa., Ann. Carnegie Mus. 3.

*Buccinanops globulosum* var. n. *elata*, STREBEL, Zool. Jahrb., Syst. 24.

*Buccinum undatum*, Trematode parasites; *Cercaria giardi* sp. n. (170-1) PELESENER, 3.

*Bullia cinerea* sp. n. Ceylon (?). PRESTON, London, Proc. Malac. Soc. 7 (34).—*B. ancillaeformis* sp. n. South Africa, SMITH, Ann. Natal Govt. Mus., 1 (37).

*Bursa (Lampas) ranelloides* Rve. var. n. *tenuisculpta*, Azores and Madeira, DAUTZENBERG & FISCHER, Monaco, Res. Camp. sci. 32 (36-7).

*Bythinia* v. *Bithinia*.

†*Bythinia* (?) *cholnokyi* sp. n. China, ob. Tertiär (391), SCHLOSSER, Ann. Hist.-Nat. Mus. Nat. Hung., 4.

†*Bythiospium obermaieri* sp. n. Post-Tertiary, France, BAROR, Amiens, Bull. Soc. linn. 18 (32).

*Bythoceras iridescens* Moore (182), *minor* Moore (182) L. Tanganyika, figd., SMITH, London, Proc. Zool. Soc. 1906.

*Calliostoma admirandum* sp. n. Bay of Bengal, SMITH, Ann. Mag. Nat. Hist. 18 (246).—*C. bisculptum* sp. n. South Africa SMITH, Ann. Natal Govt. Mus. 1 (54).—*C. grimaldii* Dautz. & Fisch. is a var. of *C. triporeatum* P. Fisch., DAUTZENBERG & FISCHER, Monaco, Res. Camp. sci. 32 (59-60).—*C. (Leiotrochus) marionae* sp. n. Florida, DALL, Nautilus 19 (131-2).—*C. conuloides* Lamarck varr. n. *cinerascens*, *subconcolor*, *violaceescens*, DAUTZENBERG & DUROUCHOUX, Feuille jeunes Natural. 36.

†*Calliostoma nonatum* Desh., Eocene, Monte Postale, figd., FABIANI, Padova, Atti. Oc. Ven. Trent. 2 (147).

†*Callithea* v. *Turricula*.

*Callogaza* v. *Gaza*.

†*Campanile* v. *Cerithium*.

*Cancellaria scobina* sp. n. off Sydney 300 fath., HEDLEY & PETTERD, Sydney, N.S.W., Rec. Austr. Mus. 6 (222).—*C. (Sceltia) lyrata* Brocchi, occurrence of a recent specimen near Maio I., C. Verd Is., figd., DAUTZENBERG & FISCHER, Monaco, Res. Camp. sci. 32 (17-8).

†*Cancellaria meridionalis* sp. n. Cretaceous, Pondoland, Woods, Cape Town, Ann. S. Afric. Mus. 4, (326).—*C. (Bonellitia) aegyptiaca* sp. n. Lutetian, Egypt, OPPENHEIM, Palaeontographica 30 (331).—*C. succiniformis* sp. n., *ampullacea* Brocc., *brandenburgi* Bttgr., *calcarata* Brocc., *gestini* (Bast) var. *compressolirata* Sacco, *hoernesii* Kittl., *lyrata* Brocc., *subcancellata* d'Orb., *varicosa* Brocc., Miocän, Ungarn., BOETTGER, Verh. siebenb. Ver. Naturw. 54 (49-51).

†*Cancilla* v. *Mitra*.

†*Cantharus* (? *Pollia*) *hantheni* sp. n. Cretaceous, Hungary, PETHÖ, Palaeontographica 52 (174-5).

*Capulus lissus* Smith, and allies, notes on, MELVILL, London Proc. Malac. Soc. 7 (81).

*Cassidaria rugosa*, anatomy, REYNELL, London Proc. Malac. Soc. 7 (67).

†*Cassis aegyptiaca* sp. n. Lutetian, Egypt, OPPENHEIM, Palaeontographica 30 (307-8).—*C. postalensis* Öppenh., Eocene, Monte Postale, figd., FABIANI, Padova, Atti. Ac. Ven. Trent. 2 (156).

†*Caziotia* gen. n. for *C. singularis* sp. n. Post Tertiary, Alpes Maritimes, POLLONERA, Torino. Boll. Musei Zool. anal. 20 No. 517 (2).

*Ceratia* v. *Rissoia*.

*Cerithidea sacrata* var. n. *hyporhyssa* California, BERRY, Nautilus 19 (133).

*Cerithiopsis cacuminatus* sp. n. off Sydney 300 f., HEDLEY & PETTERD, Sydney, N.S.W., Rec. Austr. Mus. 6 (218).—*C. cesticus* sp. n. (= *Bitium minimum* Ten. Woods not *Cerithiopsis minima* Brusina), HEDLEY, Sydney, N.S.W. Proc. Linn. Soc. 30 (529).—*C. chapmaniana*, *insignis* spp. n. South Africa, SMITH, Ann. Natal Govt. Mus. 1 (45).—*Cerithiopsis mathildaeformis* sp. n. Gulf of Oran, MELVILL, London, Proc. Malac. Soc. 7 (71).

*Cerithium charcoti*, sp. n. Antarctic, LAMY, Bul. Museum, Paris 11 (477).—*Cerithium voyi*, *nesioticum* spp. n. Pacific

Isles, PILSBRY & VANATTA, Philadelphia, Pa., Proc. Acad. Nat. Sci. 57 (787).

†*Cerithium*, ASCHER, Wien, Beitr. Pal. Geol. Oest. Ung. 19 (135).—*C. liberorum* (156-7), *trilium* (158-9), *detractatum* (159-60), (*Campanile*) *regens* spp. n. Cretaceous, Hungary, PETHÖ, Palaeontographica 52.—*C. nipporiensis* (24), *tabatensis* (25) spp. n. Post Tertiary, Japan, TOKUNAGA, Tokyo, J. Coll. Sci. 21.—*C. praecursor* (25-6), *steinmanni* (27), *stoliskai* (27), (*Pyrenella*) *sanctae-balmae* (26) spp. n. Lower Campanian, S.E. France, REPELIN, Marseille, Ann. Mus. 10.—*C. subcarinatum*, *potosianum*, *aguilerae*, *cuauhquemoci* spp. n. Senonian, Cardenas, Mexico, BÖSE, Mexico, Bol. Inst. geol. 24 (67-73).—*C. (Potamides) acadiphilum* (282), *fajumensis* (283), *susannae* (283-4), *apisidis* (285), (*Bitium*) *niloticum* (285-6), (*Sandbergeria*) *saharae* (286-7) spp. n. Tertiary, Egypt, OPPENHEIM, Palaeontographica 30.—*C. del-lagoi* Oppenh. Eocene, Monte Postale, figd., FABIANI, Padova, Atti. Ac. Ven. Trent 2 (149).

*Chemnitzia* v. *Turbonilla*.

†*Chemnitzia eucosmeta*, *orthoptycha*, ASCHER, Wien, Beitr. Pal. Geol. Oest. Ung. 19 (135-72).

†*Chenopus* (*Aporrhais*) *praeteritus* sp. n. Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. 54 (37-8).

*Chrysalidella* v. *Odostomia*.

*Chrysolomus arnoldi*, *merriami*, spp. n., RIVERS, Los Angeles, Bull. So. Cal. Acad. Sci. 3 (63-72).—*C. hoernesii* (Bell.), Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. 54 (30).

*Cingulina* v. *Pyramidella*.—*C. diaphana* sp. n. South Australia, VERCO, Adelaide, S. Aust., Trans. R. Soc. 30 (143).

†*Cirsochilus* v. *Collonia*.

*Cirsonella granum* sp. n. N. Zealand, MURDOCH & SUTER, Wellington, Trans. N. Zeal. Inst. 33 (300).

*Cirsotrema* v. *Scalaria*.

†*Clathroscala lanceolata* (Brocc.), *prolanceolata* Sacco, Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. 57 (98).

*Clathrella marshalli* (186) sp. n. European seas, *pseudohystrix* (187) n. n.

for *C. hystrix* Auct. non Jan., SYKES, London, Proc. Malac. Soc. 7.

†*Clathurella casilorica, densestriata, postuma* spp. n. Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. 54 (68).

†*Clavatula emmae* Hö. Au., *juliae* Hö. Au., *rosaliae* Hö. Au., *sabinae* Hö. Au., *semimarginata* (Lmk.), *veronicae* Hö. Au., Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. 54 (62-3).

†*Clavella v. Fusus*.

*Cleopatra multilirata* Madagascar, *smithi* British Central Africa, spp. n. ANCEY, Nautilus 20 (45).

*Clionella v. Pleurotoma*.—*C. confusa* sp. n. South Africa, SMITH, Ann. Natal Govt. Mus. 1 (23).

*Cochliopa riograndensis* sp. n. S.W. United States, PILSBRY & FERRISS, Philadelphia, Pa., Proc. Acad. Nat. Sci. 58.

†*Collonia v. Turbo*.—*C. (Cirsochilus?) grandis* sp. n. Lutetian, Egypt, OPPENHEIM, Palaeontographica 30 (218).

*Columbella daemona* (308), *compta* (308) spp. n. New Zealand, WEBSTER, Wellington, Trans. New Zeal. Inst. 38.—*C. (Anachis) richardi* sp. n. off N.W. Africa, DAUTZENBERG & FISCHER, Monaco, Res. Camp. sci. 32 (28).—*C. (Seminella) comistea* sp. n. Gulf of Oman, MELVILL, London, Proc. Malac. Soc. 7 (75).—*C. inconstans* (= *Surcula varians* Suter), *pseutes* (= *Pyramidella rosea*) spp. n., SUTER, Wellington, Trans. N. Zeal. Inst. 38 (329).—*C. suavis* sp. n. Bay of Bengal, SMITH, Ann. Mag. Nat. Hist. 18 (171).

†*Columbella ickei* (317-8), (*Conidea*) *pamotanensis* (318-9) spp. n. Java, MARTIN, Leiden, Samml. Geol. Reichsmus (2) 1.—*C. iniquidens* (17-8), *kostejana* (16), *perminuta* (16-7), *subcorrugata* (18-9) spp. n. Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. 54.

†*Cominella plicatilis* sp. n. Tertiary, Mexico, BÖSE, Mexico, Bol. Inst. Geol. 22 (30).

†*Conidea v. Columbella*.

*Conus*, BÜLOW, Frankfurt a. M., Nachrbl. D. malakozool. Ges. 38.—*C. queketti*, sp. n. South Africa, SMITH, Ann. Natal Govt. Mus. 1 (22).—*C. betulinus* L. var. n. *immaculata*, DAUTZENBERG, J. conchyliol.

liol. 54 (27).—*C. mediterraneus* Hwass, var. n. *alticonica, rayssierei*, PALLARY, J. conchyliol. 54 (78).—*C. waterhouseae* Brazier, var. n. KENYON, London, Proc. Malac. Soc. 7 (506).—*C. spinosus* Lin. the type of *Volulospina* (q.v.) gen. n. of Volutidae.

†*Conus testudinarius*, DAUTZENBERG, J. Conchyliol. 54 (30).

†*Conus burckhardi* (50), *scaliae* (51) spp. n. Tertiary, Mexico, BÖSE, Mexico, Bol. Inst. Geol. 22.—*C. sindangbaranensis* (287-8), *pamotanensis* (288), *madurensis* (288-9), *tjilonganensis* (289), *ickei* (289-90), *rembangensis* (290), *lulshofi* (290-1), *sedanensis* (291-2), *simoensis* (292) spp. n. Java, MARTIN, Leiden, Samml. Geol. Reichsmus (2) 1.—*C. (Lithoconus) aegyptiacus* sp. n. Lutetian, Egypt, OPPENHEIM, Palaeontographica 30 (336).

†*Coralliophila biconica* (35-6), *gracilispira* (35) spp. n. Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. 54.

*Couthouyia v. Fossarus*.

*Crepidula*, development, DAHLGREN.

*Crosseia eryma* sp. n. Gulf of Oman, MELVILL, London, Proc. Malac. Soc. 7 (70).

†*Cryptorhytis rigida* Bail. redescribed and figured, WOODS, Cape Town, Ann. S. Afric. Mus. 4 (321).

*Cryptospira v. Marginella*.—*C. (Gibberula) ficula* sp. n. New Zealand, MURDOCH & SUTER, Wellington, Trans. N. Zeal. Inst. 38 (291).

*Cyathopoma taiwanicum* sp. n. Formosa, PILSBRY, Philadelphia, Pa., Proc. Acad. Nat. Sci. 57 (724).

*Cyclophorus courbeti* Ancey var. n. *leucostoma*, DAUTZENBERG & FISCHER, J. conchyliol. 53 (432).—*C. eximius* var. n. *rouyeri* Sumatra, BULLEN, London, Proc. Malac. Soc. 7 (12).

*Cyclostoma elegans*, nervous system, AEBERHARDT, Bern, Mitt. Naturf. Ges. 1905 (115-7).

*Cyclostrema* subgen. n. *Lydiplonis* (25) type *C. euchiopleron* Melv. & St.; *C. novemcarinatum* (22), *quinguecarinatum, charmophron* (24) spp. n. Persian Gulf and North Arabian Sea, MELVILL, London, Proc. Malac. Soc. 7.—*C. bastowi* sp. n. Victoria, GATLIFF, Melbourne,

Proc. R. Soc. Vict. 19 (3).—*C. (Delphinoides) prestoni* sp. n. Ceylon, MELVILL, London, Proc. Malac. Soc. 7 (29).

*Cyclotus xullaensis* sp. n. Xulla Is., SCHEFFMAN, Leiden, Notes Mus. 28 (120-8).—*C. taivanus* subsp. n. *adamsi*, *swinhoei* subsp. n. *depressus*, *minutus* subsp. n. *concentratus*, PILSBRY, Philadelphia, Pa., Proc. Acad. Nat. Sci. 57 (723).

*Cymatium kampfylum* Watson, transferred from *Nassaria* and = *Lampusia nodocostata* Tate & May, HEDLEY & PETERER, Sydney N.S.W., Rec. Austr. Mus. 6 (219).—*C. (Stimpulum) problematicum* sp. n. Santa Luzzia, C. Verd Is., DAUTZENBERG & FISCHER, Monaco, Res. Camp. sci. 32 (33-4).

*Cypræa cruenta* var. n. *tortirostris* South Africa, SOWERBY, London Proc. Malac. Soc. 7 (39).—*C. punctata* L. var. n. *berinii*, DAUTZENBERG, J. Conchyliol. 54 (28).—*C. (Luponia) spurca* Lin. var. n. *elongata* Cape Verd Is., DAUTZENBERG & FISCHER, Monaco, Res. camp. sci. 32 (40).

†*Cypræa fourtaui* (300), *bullina* (302-3), (*Boeypræa*) *mokattamensis* (300-1), (*Bernayia*) *libyca* (301-2), *aegyptiaca* (302) spp. n. Tertiary, Egypt, OPPENHEIM, Palaeontographica 30.—*C. tarënsis* sp. n. Cretaceous, Tripoli, KRUMBECK, Palaeontographica 53 (121-2).—*C. zsigmondyana* sp. n. Cretaceous, Hungary, PETHÖ, Palaeontographica 52 (167-8).—*C. lanciae* Brus., Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. 54 (3).

†*Cyprædia degrangei* sp. n. Tertiary, Biarritz, OPPENHEIM, Zs. D. Geol. Ges. 58 (87).

†*Dalium* [*Dolium*] *dalli* sp. n. Tertiary, Mexico, BÖSE, Mexico, Bol. Inst. Geol. 22 (58).

*Daphnella aculeata* sp. n. New Zealand, WEBSTER, Wellington, Trans. N. Zeal. Inst. 38 (306).—*D. excavata* sp. n. Victoria, GATLIFF, Melbourne, Proc. R. Soc. Vict. 19 (1).—*D. sabrina* (77), (*Pleurotomella*) *alcestis*, *itama* (78) spp. n. Gulf of Oman, MELVILL, London, Proc. Malac. Soc. 7.

†*Daphnella jickelii* sp. n. Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. 54 (81-2).

†*Dejanira* *Stoliczka*, probably related to the Auriculidæ rather than to the Neritidæ, PETHÖ, Paleontographica 52

(122-6).—*D. stoliczkai* sp. n. Lower Campanian, S.-E. France, REPELIN, Marseille, Ann. Mus. 10 (40).

*Delphinoidea* v. *Cyclostrema*.

*Diala subearinata* sp. n. New Zealand, MURDOCH & SUTER, Wellington, Trans. N. Zeal. Inst. 38 (292).—*D. translucida* sp. n. Sydney N.S.W., HEDLEY, Sydney N.S.W. Proc. Linn. Soc. 30 (522).—*D. trilirata* sp. n. Gulf of Oman, MELVILL, London, Proc. Malac. Soc. 7 (71).

†*Diastoma biarritzense* sp. n. Tertiary, Biarritz, OPPENHEIM, Berlin, Zs. D. Geol. Ges. 58 (32).

†*Dicroloma (Perissoptera)* sp., Woods, Cape Town, Ann. S. Afric Mus. 4 (319).

†*Dihelice* gen. n. of Scalaridæ; *D. dalhei* sp. n. Devonian, Germany, SCHMIDT, Berlin, Zs. D. Geol. Ges. 57 (560).

*Diplommatina lavillei* sp. n. Indo-China, DAUTZENBERG & FISCHER, J. Conchyliol. 53 (442).—*D. (Palaina) marcheii* sp. n. Mariannes, BAVAY, J. Conchyliol. 53 (253); is synonym of *Palaina hyalina* 54 (10).—*D. taiwanica*, *camura*, *prava* spp. n. Formosa, PILSBRY, Philadelphia, Pa., Proc. Acad. Nat. Sci. 57 (726).

†*Discohelix libycus* sp. n. Paleocene, Egypt, OPPENHEIM, Palaeontographica 30 (231).

†*Dolicholathyrus* v. *Fusus*.

*Dolium* v. *Dalium*.—*D. fimbriatum* Sowerby var. n. *natalensis* South Africa, SMITH, Ann. Natal Govt. Mus. 1 (41).—*D. (Eudolium) crosseanum* Monteros. var. n. *solidior* Azores, DAUTZENBERG & FISCHER, Monaco, Res. camp. sci. 32 (38).

†*Dorsanum cerithiiforme* Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. 54 (30).

*Drillia* v. *Pleurotoma*.—*D. albotesselata* sp. n. South Africa, SMITH, Ann. Natal Govt. Mus. 1 (26).—*D. multiplex* sp. n. New Zealand, WEBSTER, Wellington, Trans. N. Zeal. Inst. 38 (306).—*D. optabilis* sp. n. New Zealand, MURDOCH & SUTER, Wellington, Trans. N. Zeal. Inst. 38 (283).—*Drillia* (?) *thisbe* sp. n. Gulf of Oman, MELVILL, London, Proc. Malac. Soc. 7 (77).

†*Drillia dorac*, *vasta* spp. n., *adelae* (Hö. Au.), *allionii* Bell., *crispata* (Ian.), *granaria* (Duj.), *incrassata* (Duj.), *obtu-*

*sanguila* (Brocc.), *pustulata* (Brocc.), *spinescus* (Ptsch.), *terebra* (Bast.), Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. 54 (55-7).—*D.* (?) (*Pleurotoma*) *weberi* sp. n. Tertiary, Philippines, SMITH, Philippine J. Sci. 1 (628).

*Dunkeria candida* A. Ad. = *Turbonilla* (*Pyrgisculus*) *candidissima* (q.v.).

†*Eastonia* subgen. n. of *Faunus* (q.v.); ICKE & MARTIN, Leiden, Samml. Geol. Reichsmus. 8 (107-16).

†*Ecyclopterus kalmi, proclivis* spp. n., RAYMOND, Pittsburgh, Pa., Ann. Carnegie Mus. 3.

*Edgaria nassa* (Woodw.) Lake Tanganyika, figd., SMITH, London, Proc. Zool. Soc. 1906 (182).

*Egilina* subgen. n. of *Odostomia* (q.v.), DALL & BARTSCH, Washington, D.C., Smithsonian Inst., U. S. Nation., Mus. Proc. 30.

*Emarginula*, notes on, MARTEL, Feuille jeunes natural. 36 (105-8); Rennes, Bul. soc. sci. méd. 14, (326-32). *Emarginula superba* sp. n. off Sydney. 300 f., HEDLEY & PETERD, Sydney N.S.W., Rec. Austr. Mus. 6 (216).

*Enteroxenus ostergreni*, Keimzellen, BONNEVIE, Arch. Math. Naturw., Kristiania 27 No. 12; Jenaische Zs. Natw. 41 (229-428).

†*Ecocypraea* v. *Cypraea*.

†*Eopsephaea* v. *Voluta*.

†*Eotomaria robertsi* sp. n. Palæozoic, Haverfordwest, REED, London, Geol. Mag. 3 (359).

*Euchelus natalensis* sp. n. South Africa, SMITH, Ann. Natal Govt. Mus. 1 (55).

*Eudolium* v. *Dolium*.

*Eulina*, notes on spp., MARTEL.—*E. nisonida* (71), *rhæba* (72) spp. n. Gulf of Oman, MELVILL, London, Proc. Malac. Soc. 7.—*E. vegrandis* (297), *infrapatula* (297), (*Mucronalia*) *bulbula* (298) spp. n. New Zealand, MURDOCH & SUTER, Wellington, Trans. N. Zeal. Inst. 38.

†*Eulina levis, ovalis* spp. n. Post Tertiary, Japan, TOKUNAGA, Tokyo, J. Coll. Sci. 21 (21).—*E. raymondi* sp. n. California, RIVERS, Los Angeles, Bull. So. Cal. Acad. Sci. 3.

*Eulimella anabathron* sp. n. Sydney, HEDLEY, Sydney N.S.W. Proc. Linn. Soc. 30 (524).—*E. levilirata* sp. n. New Zealand, MURDOCH & SUTER, Wellington, Trans. N. Zeal. Inst. 38 (296).

†*Euomphalus* (*Straparollus*) cf. *grandis* Kon., *eupentangulatus* Sow., FRECH, Földt. Közl. 36.

†*Euphemus sudeticus* (123), *kukenthalii* (124) spp. n. Carboniferous, Hungary, FRECH, Földt. Közl., Budapest 36.

*Eupomatias* v. *Pomatias*.

†*Euspira* v. *Natica*.

*Euthria adales* (23), *pulicaria* (24) spp. n. Cape Verd Is.; *E. saharica* (21-2) is a synonym of *Latirus maximus* G. B. Sby., DAUTZENBERG & FISCHER, Monaco, Res. camp. sci. 32.

†*Euthria adunca* (Brown), *fuscocingulata* (M. Hö.) Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. 54 (33).

†*Eutritonium biarritzense* sp. n. Tertiary, Biarritz, OPPENHEIM, Berlin, Zs. D. Geol. Ges. 58 (84).—*E. affine* (Desh.), *apenninicum* (Sassi), *deshayesi* (Michti.), *karreri* (Hö. Au.), *parvulum* (Michti.), *speciosum* (Bell.), *tarbellianum* (Grat.), *tortuosum* (Brocc.) Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. 54 (38-39).

†*Eutrochus* v. *Trochus*.

*Evalea* v. *Odostomia*.

*Fasciolaria*, development, GLASER, Biol. Bull. 10 (139-64).—*F. tulipa*, Kannibalismus, GORKA, Termt. Közl. 38 (230).

†*Fasciolaria fimbriata* Brocc., Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. 54 (48).

†*Faunus* subgen. n. *Eastonia*; *F.* (*E.*) *horsti* sp. n. Cretaceous, Borneo, ICKE & MARTIN, Leiden, Samml. Geol. Reichsmus. 8 (107-16).

†*Ficula rai* (308-9), *thebaica* (309) spp. n. Tertiary, Egypt, OPPENHEIM, Palæontographica 30.—*F. cingulata* Bronn, *geometra* Borson, Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. 54 (46-7).

*Fissurella*, anatomy, HALLER.—*F. huttoni* (*F. squamosa* Hutton) sp. n., SUTER, Wellington, Trans. N. Zeal. Inst. 38 (322).—*F. verna* Gld. var. n. *gouldi* Cape Verd Is., DAUTZENBERG & FISCHER, Monaco, Res. Camp. sci. 32 (61).

†*Fissurella nuda* sp. n. Lutetian, Egypt, OPPENHEIM, *Palaeontographica* 30 (216-7).

*Fossarus (Couthouyia) eudmetus* sp. n. Gulf of Oman, MELVILL, London, Proc. Malac. Soc. 7 (71).

*Fulguraria (Alcithoe) hedleyi* sp. n. New Zealand, MURDOCH & SUTER, Wellington, Trans. N. Zeal. Inst. 38 (288).

*Fusus*, notes on name, DALL, Leeds, J. Conch. 11 (289-97).—*F. incertus* sp. n. Bay of Bengal, SMITH, Ann. Mag. Nat. Hist. 18 (167).—*F. corpulentus* Smith, figd., BÜLOW, Frankfurt a. M., NachrBl. D. malakozool. Ges. 38 (196-200).

†*Fusus baryi* sp. n. Cretaceous, Tripoli, KRUMBECK, *Palaeontographica* 53 (119-20).—*F. legrei* (20-1), *parvulus* (21), *supracretaceus* (21), *globulus* (22), *oliva* (22) spp. n. Lower Campanian, S.E. France, REPELIN, Marseille, Ann. Mus. 10.—*F. grodiscltanus*, *oxyptychus*, *rothpletzi*, *zonatus* spp. n., ASCHER, Wien, Beitr. Pal. Geol. OestÜng. 19 (135-72).—*F. schlosseri* (171), *delicatus* (172), *conjecturalis* (173) spp. n. Cretaceous, Hungary, PETRŮ, *Palaeontographica* 52.—*F. sublamellosus* sp. n. Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. 54 (47-8).—*F. (Clavella) sangiranensis* (307), *fennemai* (307-8) spp. n. Java, MARTIN, Leiden, Samml. Geol. Reichsmus. (2) 1.—*F. (Dolicholathyrus) mokattamensis* sp. n. Lutetian, Egypt, OPPENHEIM, *Palaeontographica* 30.

*Gaza (Callogaza?) frederici* sp. n. Bay of Bengal, SMITH, Ann. Mag. Nat. Hist. 18 (246).

*Genota v. Pleurotoma.*

†*Genota ramosa* (Bast.), *valerae* (Hö. Au.), Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. 54 (55).

*Gibberula v. Uryptospira.*

*Gibbula v. Trochus.*—*G. corallinoides* Locard, *gorgonarum* P. Fisch., figd., DAUTZENBERG & FISCHER, Monaco, Res. Camp. sci. 32 (57).

†*Gibbula lucida* sp. n. Tertiary, Biarritz, OPPENHEIM, Berlin, Zs. D. geol. Ges. 58 (81).

*Girardia horei* Smith (183) *praeclara* Bourg. (183), Lake Tanganyika, figd., SMITH, London, Proc. Zool. Soc. 1906.

†*Glauconia* synonymy (31), *coquandi* d'Orb. (33-7) var. n., REPELIN, Marseille, Ann. Mus. 10 (33-7).

*Glyphis fuscoerenilata* sp. n. South Africa, SMITH, Ann. Natal Govt. Mus. 1 (56).

†*Goneoptyxis kurkurensis* sp. n. Paleocene, Egypt, OPPENHEIM, *Palaeontographica* 30 (313).

*Goniobasis comalensis form. n. fontinalis* S.W. United States, PILSBRY & FERRISS, Philadelphia, Pa., Proc. Acad. Nat. Sci. 58.

†*Gyrodes v. Natica.*—*G.* sp. Woods, Cape Town, Ann. S. Afric. Mus. 4 (317).

†*Gyronema? rotalina* sp. n., RAYMOND, Pittsburgh, Pa., Ann. Carnegie Mus. 3 (577).—*G. speciosum*, *dowlingi* (50F), *brevispira* (51F) spp. n. Silurian, N. Canada, WHITEAVES, Rep. Geol. Surv. Can. 14.

†*Haedropleura avenacea* (60), *corae* (58), *crystallina* (59-60), *recticosta* (60-1) spp. n. Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. 54.

*Halopea [Holopea]? iowensis* sp. n. Hackberry group, Iowa, WEBSTER, Iowa Nat. 2 (2-4).

*Harpulina nom. n.* for *Harpula* auct. non Swainson, type *Voluta arausaica* Solander, DALL, *Nautilus* 19 (143).

*Helcioniscus illibrata* sp. n. S. Australia, VERCO, Adelaide S. Austr., Trans. R. Soc. 30 (205).—*v. Helcioniscus*.

†*Helcioniscus luciferus* sp. n. Patagonian, Patagonia, HUERING, Revist. Mus. La Plata 11 (237-8).

*Helicina semisculpta* (125), *vagans* (126) spp. n. Tenimber, ANCEY, J. Conchyliol. 54.

*Helcioniscus mestayerae* sp. n. Stewart I., SUTER, Wellington, Trans. N. Zeal. Inst. 38 (322).

†*Heligmatoma libycum* sp. n. Paleocene, Egypt, OPPENHEIM, *Palaeontographica* 30 (321-2).

*Hemipleurotoma v. Pleurotoma.*

*Hima v. Nassa.*

*Hindsia grimaldii* belongs to *Anura*, Bellardi, DAUTZENBERG & FISCHER, Monaco, Res. camp. sci. 32 (25-6).

†*Hindsia gendingensis* (313-4), *tambacana* (314-5), *samarangana* (315),



*javana* (315-6), *tjemoricensis* (316-7) **spp. n.** Java, MARTIN, Leiden, Samml. Geol. Reichsmus. (2) 1.

†*Hippocrene* v. *Rostellaria*.

†*Hipponyx mokattamensis* **sp. n.** Lute-tian, Egypt, OPPENHEIM, Palaeontographica 30 (261-2).

*Holcopoma* v. *Auritus*.

*Holopea?* *plauta* **sp. n.** RAYMOND, Pittsburgh, Pa., Ann. Carnegie Mus. 3. —v. *Halopea*.

†*Holopella acicularis* Roem., figd. SIEMIRADZKI, Wien, Beitr. Pal. Geol. OestUng. 19 (230).

*Hydrocena* v. *Realia*.

†*Janiopsis maxillosa* (Bon.), *ranelliformis* (Hö. Au.), Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. 54 (32-3).

*Iphia* v. *Pyramidella*.

†*Itheria katzeri* **sp. n.** Cretaceous, Balkans, OPPENHEIM, Berlin, Zs. D. geol. Ges. 58 (132).

*Japonia zebra* (722), *formosana* (723), **spp. n.** Formosa, PILSBRY, Philadelphia, Pa., Proc. Acad. Nat. Sci. 57.

*Lacuna wandelensis* **sp. n.** Antarctic, LAMY Bul. Muséum, Paris 11 (478).—*L. pallidula* da Costa **var. n.** *aurea* DAUTZENBERG & DUROUCHOUX, Feuille jeunes natural. 36.

*Lamellaria ampla, fuegoensis, clata, magellanica* **spp. n.** Magalhaen, STREBEL, Zool. Jahrb., Syst. 24 (145-7).

*Lamellariopsis* **gen. n.** of Marseniadæ for *L. turquati* **sp. n.** Antarctic, VAYSSIÈRE, Bul. Mus., Paris 12 (148).

*Lampas* v. *Bursa*.

†*Lamprodoma* v. *Oliva*.

*Lancella* v. *Turbonilla*.

*Lanistes gribovianensis* **sp. n.** Central Africa, GERMAIN, Bul. Muséum, Paris 11 (437).

*Lanzaia* **gen. n.** of Rissoidæ for *Turbo elephantotus* Megerle 1824 BRUSINA, Frankfurt a. M., Nachrbl. D. malakozool. Ges. 38 (154-62).

†*Lathyrus bellardii* (M. Hö.), *bilineatus* (Ptsch), *moravicus* (Hö. Au.), *pleurotomoides* (Hö. Au.), Miocän, Ungarn., BOETTGER, Verh. siebenb. Ver. Naturw. 54 (48-9).

*Latirus maximus* G. B. Sby., figd., DAUTZENBERG & FISCHER, Monaco, Res. camp. sci. 32 (21-2).

†*Latirus tjilonganensis* **sp. n.** Java, MARTIN, Leiden, Samml. Geol. Reichsmus. (2) 1 (308-9).

†*Latrunculus stromeri* **sp. n.** Upper Lutetian, Egypt, OPPENHEIM, Palaeontographica 30.

*Lavigeria grandis* Bourg. Lake Tanganyika, figd., SMITH, London, Proc. Zool. Soc. 1906 (182).

†*Laxispira distincta* **sp. n.** Cretaceous, Hungary, PETHÖ, Palaeontographica, 52 (144-5).

*Leiostraca inusta* **sp. n.** Sydney, HEDLEY, Sydney, N.S.W. Proc. Linn. Soc. 30 (525).

*Leiotrochus* v. *Calliostoma*.

†*Leptoconchus rollei* **sp. n.** Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. 54 (36-7).

*Leptopoma bicolor* **var. n.** *mutica*, KOBELT in MARTINI & CHEMNITZ, Syst. Conch. Cab.

†*Leptolyra gibbula* **sp. n.** Lutetian, Egypt, OPPENHEIM, Palaeontographica 30 (225).

*Lepyrrium shawalteri* **subsp. n.** *cahaw-bensis*, PILSBRY, Nautilus 20 (51).

*Leucosyrinx* v. *Pleurotoma*.

†*Liotia* (*Liotina*) *fabrei* **sp. n.** Lutetian, Egypt, OPPENHEIM, Palaeontographica 30 (219).

*Lippistes meridionalis* **sp. n.** S. Australia, VERCO, Adelaide, S. Aust., Trans. R. Soc. 30 (221).

*Liratina* **subgen. n.** of *Valvata* (q. v.), LINDHOLM, Frankfurt a. M., Nachrbl. D. malakozool. Ges. 38 (190).

*Lissochilus* **subgen. n.** of *Nerita* (q. v.) PETHÖ, Palaeontographica 52 (112-3).

†*Lithoconus* v. *Conus*.

*Littorina rudis*, Trematode parasites; *Cercaria emasculans* **sp. n.** (166), *C. brevicauda* **sp. n.** (167), PELSENER, 3.

†*Littorina dictyophora* **sp. n.** ASCHER, Wien, Beitr. Pal. Geol. OestUng. 19 (135-72).

†*Lophospira excavata* (558), *trispiralis* (559), *instabilis* (560), *sedgwicki*, *ferruginea* (562), *bellicirmata* (565), *subglobosa* (569) **spp. n.** Primary,

British Isles, DONALD, Quart. J. Geol. Soc. London **62**.

†*Loroxema pexatiforme* sp. n. Permo-Carboniferous, Italy, GORTANI, Paleontogr. Ital. **12** (67).

†*Lunatia* v. *Natica*.

*Luponia* v. *Cypraea*.

*Lydiplhis* subgen. n. of *Cyclostrema* (q. v.), MELVILL, London, Proc. malac. Soc. **7** (25).

†*Lypria ickei* sp. n. Java, MARTIN, Leiden, Samml. Geol. Reichsmus (2) **1** (302-3).

†*Macrocheilus meridianus* sp. n. Permo-Carboniferous, Italy, GORTANI, Palaeontogr. Ital. **12** (65).—*M. stinesvillensis* sp. n. CUMINGS, Indiana, Rep. Dept. Geol. Nat. Res. **30**.

†*Malaptera* v. *Aporrhais*.

*Malluvium* subgen. n. of *Amalthea* type *Capulus lissus* SMITH, MELVILL, London, Proc. Malac. Soc. **7** (82); is unnecessary, SMITH, London, Proc. Malac. Soc. **7** (122).

*Manaria* gen. n. of *Fusidae* for *M. thurstoni* sp. n. Bay of Bengal, SMITH, Ann. Mag. Nat. Hist. **13** (167).

*Mangilia beckeri* sp. n. South Africa, SOWERBY, London, Proc. Malac. Soc. **7** (38).—*M. buplicata* sp. n. Gulf of Oman, MELVILL, London, Proc. Malac. Soc. **7** (77).—*M. murrhea* (305), *infanda* (305), spp. n. New Zealand, WEBSTER, Wellington, Trans. N. Zeal. Inst. **38**.

†*Mangilia porellanea* (80), *subcostata* (77-8), *subturgida* (80-1) spp. n. Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. **54**.

*Margarita antarctica* sp. n. Antarctic, LAMY, Bul. Muséum, Paris **11** (481).

*Margaritopsis* gen. n. for *Margarita frielei* KRAUSE, THIELE, Frankfurt a. M., NachrBl. D. malakozool. Ges. **38**.

*Margarya melanioides* Nevill var. n., DAUTZENBERG & FISCHER, J. Conchyliol. **53** (424).

*Marginella eburnea, subflava* spp. n. Ceylon (?), PRESTON, London, Proc. Malac. Soc. **7** (35).—*M. fusula* (289), *hebesceus* (290) spp. n. New Zealand, MURDOCH & SUTER, Wellington, Trans. N. Zeal. Inst. **38**.—*M. shepstonensis* (31) sp. n. South Africa; *M. buplicata* (29) Krauss, discussed,

SMITH, Ann. Natal Govt. Mus. **1**.—*M. (Volvaria) amydrozona, eumorpha* spp. n. Gulf of Oman, MELVILL, London, Proc. Malac. Soc. **7** (76).—*M. (V.) joubini* sp. n. off N. W. Africa, DAUTZENBERG & FISCHER, Monaco, Res. Camp. sci. **32** (18-9).—*M. (V.) perrieri* sp. n. Falkland Is., BAVAY, J. Conchyliol. **53** (268).

†*Marginella dalli* (43), *eordiformis* (44), *latior* (45) spp. n. Tertiary, Mexico, BöSE, Mexico, Biol. Inst. Geol. **22**.—*M. reimbangensis* (299-300), *beberkiriana* (300), (*Cryptospira*) *pamolatanensis*, (300-1), *sangiranensis* (301) spp. n. Java, MARTIN, Leiden, Samml. Geol. Reichsmus. (2) **1**.—*M. (Volvarina) brevispira* (324-5), (*Stazzania*) *sanruvensis* (325) spp. n. Lutetian, Egypt, OPPENHEIM, Palaeontographica **30**.—*M. eratoformis* Hö. Au., *minuta* Pfr., Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. **54** (5).—*M. gibberosa* (87), *portus* (88) Tertiary, Biarritz, OPPENHEIM, Berlin, Zs. D. geol. Ges. **58**.

†*Mayeria* v. *Semifusus*.

†*Megalomphala robusta* sp. n. Silurian, N. Canada, WHITEAVES, Rep. Geol. Surv. Can. **14** (48 F).

*Megalovalvata* subgen. n. of *Valvata* (q. v.), LINDBOLM, Frankfurt a. M., NachrBl. D. malakozool. Ges. **38** (190).

*Melania solidula* sp. n. Mariannes, BAVAY, J. Conchyliol. **53** (254).—*M. sylkesi* sp. n. Sumatra, BULLEN, London, Proc. Malac. Soc. **7** (15).—*M. curvieosta* var. n. *prestoniana* Sumatra, BULLEN, London, Proc. Malac. Soc. **7** (15).

†*Melania jacqueti* sp. n. Indo China, DAUTZENBERG & FISCHER, J. Conchyliol. **53** (413).—*M. krausei* sp. n. Upper Cretaceous, Borneo, ICKE & MARTIN, Leiden, Samml. Geol. Reichsmus., **8** (109-10).—*M. (Acrostoma) sindangbaranensis* sp. n. Java, MARTIN, Leiden, Samml. Geol. Reichsmus. (2) **1** (321).—*M. (Pachyelilus) bombachensis* sp. n. Tertiary, Panama, JOUKOVSKY, Genève, Mém. Soc. Phys. **35** (174-5).

†*Melongena ickei* sp. n. Java, MARTIN, Leiden, Samml. Geol. Reichsmus. (2) **1** (309).—*M. leschmanni* form. n., HOERNES, Wien, SitzBer. Ak. Wiss. **115** (1521-47).

*Menestho* v. *Odostomia*.

†*Mesalia farafrensis* (251-2), *sanurensis* (253), *pedinogyra* (253-4), *blanckenhorni*, (254), *analoga* (254-5) **spp. n.** Tertiary, Egypt, OPPENHEIM, Palaontographica **30**.

†*Mesorhytis* v. *Turricula*.

*Metula andamanica* **sp. n.** Andaman Is., SMITH, Ann. Mag. Nat. Hist. **18** (165).

†*Metula boettgeri* **sp. n.** Java, MARTIN, Leiden, Samml. geol. Reichsmus. (2) **1** (310-1).—*M. biarritzensis* **sp. n.** Tertiary, Biarritz, OPPENHEIM, Zs. D. geol. Ges. **58** (86).

†*Micraclis* **gen. n.** aff. *Turbonilla* RISSO, Typ *M. mira* **sp. n.** Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. **54** (99).

*Minolia textilis* (298), *plicatula* (299), **spp. n.** New Zealand, MURDOCH & SUTER, Wellington, Trans. N. Zeal. Inst. **38**.

*Miralda* v. *Odostomia*.

*Mitra*, notes on spp.; *M. brellinghami* **sp. n.** Hab. incert., SMITH, London, Proc. Malac. Soc. **7** (124-5).—*M. brellinghami* SM., *zonata* MARR. figd., BÜLOW, Frankfurt a. M., NachrBl. D. malakozool. Ges. **38** (196-200).—*M. idae* MOLV., (195-6), *fultoni* SM. (197), *lowei* DALL (197), *orientalis* GRAY, W. America, figd., WILLIAMSON, Washington, D.C., Proc. Biol. Soc. **19**.—*M. punctostrata* ADAMS, figured, SMITH, Ann. Natal Govt. Mus. **1** (32).—*M. picta* REE., note, ROUS, Nautilus **20** (57).—*M. (Turricula) sanguisuga* L. **subsp. n.** *condoriana*, DAUTZENBERG & FISCHER, J. Conchylol. **53** (387).

†*Mitra aptycha* (12-3), *boehmi* (11-2), *paraptycha* (13-4), *pilsbryi* (6-7), *pseudorecticoستا* (10), *subfusulus* (5) **spp. n.** Miocän, Ungarn; *M. avellana* **varr. n.** *avellanella* (9), *pseudavellana* (9-10), *M. ebenus* Lmk. **varr. n.** *paraleucozona* (8), *pseudopyramidella* (9), Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. **54**.—*M. degranjei vasconum* **spp. n.** Tertiary, Biarritz, OPPENHEIM, Berlin, Zs. D. geol. Ges. **58** (89).—*M. mokattamensis* **sp. n.** Lutetian, Egypt, OPPENHEIM, Palaontographica, **30** (325-6).—*M. (Nebularia) sedanensis* (303), (*Cancilla*) *sucabumiana* (303-4), *rebanagensis* (304) **spp. n.** Java, MARTIN, Leiden, Samml. Geol. Reichsmus. (2) **1**.

(N-9720 r)

*Mitromorpha pallidula* **sp. n.** Sydney, HEDLEY, Sydney, N.S.W. Proc. Linn. Soc. **30** (534).

†*Mohrensternia* (?) *pseudalvania* **sp. n.** Mäotisches Becken, ANDRUSSOW, St. Peterburg, Verh. Russ. mineral. Ges. **43** (289-451).

*Monilea oleacea* **sp. n.** off Sydney 300 f., HEDLEY & PETERD, Sydney, N.S.W., Rec. Austr. Mus. **6** (215).

†*Monodonta* v. *Trochus*.

*Morio alcocki* **sp. n.** Bay of Bengal, SMITH, Ann. Mag. Nat. Hist. **18** (170).

*Mormula* v. *Turbonilla*.

*Mucronalia* v. *Eulima*.—*M. bizonula* (72), *lepida* (73) **spp. n.** Gulf of Oman, MELVILL, London, Proc. Malac. Soc. **7**.

*Mumiola epibathra* **sp. n.** Gulf of Oman, MELVILL, London, Proc. Malac. Soc. **7** (72).

†*Murchisonia kokeni* (*M. angulata* Koken) **sp. n.**, FRECH, Földt. Közl., **36** (126).—*M. paronai* (574), *tommasii* (575) **spp. n.** Carboniferous, Carnian Alps, GORTANI, Boll. Soc. Geol. Ital. **24**.—*M. mazzaroti* **sp. n.**, Permian, Carnia, GORTANI, Rev. Ital. Pal. **12** (123).—*M. aff. demidoffi* Palaeozoic, Podolia **sp. n.**, SIEMIRADZKI, Wien, Beitr. Pal. Geol. OestUng. **19** (233).

*Murex licinus* **sp. n.** off Sydney 300 fath., HEDLEY & PETERD, Sydney, N.S.W. Rec. Austr. Mus. **6** (219).—*M. spp.* (33-8); *M. gallinago* SBY. (196-200) figd., BÜLOW, Frankfurt a. M., NachrBl. D. malakozool. Ges. **38**

†*Murex attonans* (43-4), *collega* (42-3), *hamulifer* (41-2), *murex-ferrus* (45) **spp. n.** Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. **54**.

*Nacella*, anatomy, HALLER.—*N. compressa* (208), *stovae* (209) **spp. n.** S. Australia, VERCO, Adelaide, S. Aust., Trans. R. Soc. **30**.

*Nassa nevilliana* **sp. n.** Ceylon (?), PRESTON, London, Proc. Malac. Soc. **7** (34).—*N. subsimilis* **sp. n.** Bay of Bengal, SMITH, Ann. Mag. Nat. Hist. **18** (165).—*N. (Alectryon) jactibunda* **sp. n.** Persian Gulf, MELVILL, London, Proc. Malac. Soc. **7** (76).—*N. (Hima) tindalli* **sp. n.** Ceylon, MELVILL, London, Proc. Malac. Soc. **7** (29).—*N. mutabilis* L. **var. n.**, *procera*, *N. ferrusaci* PAYR.

b 20

**varr. n. claudoni, pallaryi**, PALLARY, J. *Conchyl. 54* (84-5).

†*Nassa crux* (26), *explorata* (23), *hypertropha* (24), *striaticosta* (27), *subasperata* (29) **spp. n.**; *N. daciae* HÖ. *An. var. n. rejecta* (28-9); Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. **54**.—*N. prisca* **sp. n.** Tertiary, Biarritz, OPPENHEIM, Zs. D. geol. Ges. **58** (83).—*N. retowskii* **sp. n.** Maötisches Becken, ANDRUSSOW, St. Peterburg, Verh. Russ. mineral. Ges. **43** (289-451).—*N. (Uzita) beberkiriana* **sp. n.** Java, MARTIN, Leiden, Samml. Geol. Reichsmus. (2) **1** (317).

*Natica anderssoni* **sp. n.** Magalhaen, STREBEL, Zool. Jahrb., Syst. **24** (142).—*N. dividiata* (172), *simulans*, *incerta* (173), *apertissima*, *mutilis* (174) **spp. n.** Bay of Bengal and Arabian Sea, SMITH, Ann. Mag. Nat. Hist. **18**.—*N. alderi*, trematode parasites; *Cercaria parvirenalis* **sp. n.** (165-6), *C. obtusicaudata* **sp. n.** (167-8), *C. crispata* **sp. n.** (171-2), *C. appendiculata* **sp. n.** (174-5), PELSENER, **3**.

†*Natica arsenae* **sp. n.** Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. **57** (90).—*N. mokattamensis* (276), *admiranda* (271), *cepaiformis* (272) (*Ruspira*) *lyonsi* (264-5), (*Neverita*) *cleopatrae* [Mayer-Eymar MS.] (272-3), (*Naticina*) *aegyptiaca* (274-5), *phasianella* (275-6) **spp. n.** Tertiary, Egypt, OPPENHEIM, *Palaeontographica* **30**.—*N. plesio-lyrata* (147-8), *providata* (148-9), *uberiformis* (150-1), (*Amauopsis*) *fruscagorensis* (145-7), (*Gyrodes*) *kochli* **spp. n.** Cretaceous, Hungary, PETHÖ, *Palaeontographica* **52**.—*N. uhligi* **sp. n.**, ASCHER, Wien, Beitr. Pal. Geol. OestUng. **19** (135-72).—*N. (Ampullina) altilirata* **sp. n.** Senonian, Cardenas, Mexico, Böse, Mexico, Bol. Inst. Geol. **24** (61).—*N. (Lanatia) multi-striata* Bail. re-described and figured, Woods, Cape Town, Ann. S. Afric. Mus. **4** (316).

†*Naticina* v. *Natica*.

†*Naticopsis hackberryensis* **sp. n.**, *gigantea* **var. n. depressa** Hackberry group, Iowa, WEBSTER, Iowa Nat. **2** (2-4).—*N. paucivolutus* **sp. n.** Glen Park Limestone, WELLER, St. Louis Mo., Trans. Acad. Sci. **16** (435-71).

†*Nebularia* v. *Mitra*.

*Neocyclus depressus* (9), *peruvianus* (98) **spp. n.** Peru, DA COSTA, London, Proc. Malac. Soc. **7**.

*Neptunea antiqua*, teratology, SMITH, London, Proc. Malac. Soc. **7** (67).

†*Nerinea*, ASCHER, Wien, Beitr. Pal. Geol. OestUng. **19** (135-72).—subgen. n. *Plesioptygmatis* type *N. (P.) burckhardti* **sp. n.** Senonian, Cardenas, Mexico, Böse, Mexico, Bol. Inst. Geol. **24** (65-70).—*N. katzeri* **sp. n.** Cretaceous, Balkans, OPPENHEIM, Berlin, Zs. D. geol. Ges. **58** (131).

*Nerita* subgen. n. *Lissochilus*, type *N. sigaretinus* Buyignier, PETHÖ, *Palaeontographica* **52** (112-3).

†*Nerita gemmata* **sp. n.** Cretaceous, Hungary, PETHÖ, *Palaeontographica* **52** (126-7).—*N. kaffaria*, *umzambiensis* **spp. n.** Cretaceous, Pondoland, Woods, Cape Town, Ann. S. Afric. Mus. **4** (311).—*N. punctata* **sp. n.** Tertiary, Philippines, SMITH, Philippine J. Sci. **1** (628).—*N. (Ostotoma) gensacensis* **sp. n.** Campanian, Gensac, PETHÖ, *Palaeontographica* **52** (117-8).—*N. (Peloronta) saurensis* (226-7), *faumensis* (227-8), (*Lissochilus*) *eucleista* (288) **spp. n.** Tertiary, Egypt, OPPENHEIM, *Palaeontographica* **30**.

*Neritina*, Hungarian spp., Soós, Budapest, Ann. Hist. Nat. Mus. Nat. Hung. **4** (450-62).—*N. fluvialis* **subsp. n. zernovnicensis**, KORMOS, Frankfurt a. M., NachrBl. D. malakozool. Ges. **38**.—*N. liturata* Aralsee, OSTROUMOFF, Taškent, Izv. Turk. Otd. Russ. Geogr. Obsč. **4** (20-6).

†*Neritina*, notes on Diluvial species, KORMOS, Foldt. Kozl., Budapest **36** (295-6).—*N. haugi* **sp. n.** Lower Campanian, S.E. France, REPELIN, Marseille, Ann. Mus. **10** (39-40).—*N. junghuhni* **sp. n.** Java, MARTIN, Leiden, Samml. Geol. Reichsmus. (2) **1** (323).—*N. ločzyana* **sp. n.** Cretaceous, Hungary, PETHÖ, *Palaeontographica* **52** (131-2).

†*Neritoma* (?) (*Oncochilus*) *occidentalis* **sp. n.** Jurassic, N. America, WHITFIELD & HOVEY, New York, Bull. Amer. Mus. Nat. Hist. **22**.

†*Neritopsis parisiensis* Desh. Eocene, Monte Postale, figd., FABIANI, Padova, Atti. Ac. Ven.-Trent. **2** (148).

†*Neverita* v. *Natica*.

*Newtoniella stiria* sp. n. New Zealand, WEBSTER, Wellington, Trans. N. Zeal. Inst. **38** (307).

*Nisiturris* subgen. n. of *Turbonilla* (q.v.), DALL & BARTSCH, Washington, D.C., Smithsonian Inst., U.S. Nation. Mus. Proc. **30**.

†*Niso kimberi* sp. n. Eocene, S. Australia, PRITCHARD, Vict. Nat., Melbourne **23** (119).

*Obeliscus* v. *Pyramidella*.—*O. agassizi*, *pattalus*, *clavus*, *hendersoni*, *simpsoni* spp. n., *homalogyra* var. n. *zaza*, *salleanus* var. n. *disparilis*, PILSBRY, Man. Conch. **18**.

*Ocinebra erronea* Monterosato varr. n. *major*, *minor*, PALLARY, J. Conchyliol. **54** (92).

*Ocinebra hybrida* Aradas & Schoil var. n. *scalata*, PALLARY, J. Conchyliol. **54** (93).

*Odetta* v. *Odostomia*.

*Odostomia* subgen. n. *Egilina*; *O. desemana* (*O. lactea* Dunker), (*Menestho*) *exarata* (*Menestho exarata* A. Adams), (*Amaura*) *martensi* (*O. curta* Clessin), (*Parthenina*) *meta*, (*Chrysalida*) *dux*, (*Pyrgulina*) *lecta*, (*Odetta*) *lectissima*, *felix*, (*Evalea*) *culta*, *mauritanica*, *limpida* spp. n., (*Pyrgulina*) *densecostata* subsp. n. *upoluensis*, DALL & BARTSCH, Washington, D.C., Smithsonian Inst., U.S. Nation. Mus. Proc. **30**.—*O. lutea* Garrett, and synonyms, MELVILL & STANDEN, Leeds, J. Conch. **11** (362).—*O. marginata* sp. n., New Zealand, MURDOCH & SUTER, Wellington, Trans. N. Zeal. Inst. **38** (296).—*O. opaca* sp. n. Sydney, HEDLEY, Sydney N.S.W. Proc. Linn. Soc. **30** (524).—*O. (Pyrgulina) hervierioides*, *tenerrima* (74), *thelxinoe*, (*Miralda*) *una* (75) spp. n. Gulf of Oman, MELVILL, London, Proc. Malac. Soc. **7**.

†*Odostomia takinogarensis* Post Tertiary, Japan, TOKUNAGA, Tokyo, J. Coll. Sci. **26** (23).

*Oliva smithi* (17) sp. n. locality unknown; *O. ispidula* var. n. *longispira*, BRIDGMAN, London, Proc. Malac. Soc. **7** (195).

†*Oliva ickei* (296-7), (*Olivancillaria*) *pamotanensis* (297), *rembangensis* (297-8) spp. n. Java, MARTIN, Leiden, Samml. Geol. Reichsmus. (2) **1**.—*O. subplicata* (N-9720 r)

sp. n. Tertiary, Mexico, BÖSE, Mexico, Bol. Inst. Geol. **22** (59).—*O. (Lamprodoma) aegyptiaca* sp. n. Lutetian, Egypt, OPPENHEIM, Palaeontographica **30** (330).—*O. flammulata* Link., Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. **54** (3).

†*Olivancillaria* v. *Oliva*.

*Omalaxis amœna* sp. n. New Zealand, MURDOCH & SUTER, Wellington, Trans. N. Zeal. Inst. **38** (293).

*Omphalotropis* v. *Realia*.—*O. annatonensis* Pfeiffer var. n. *santoensis* New Hebrides, ANCEY, J. Conchyliol. **53** (300).—*O. elongata*, *quadrasi* synonymy, BAVAY, J. Conchyliol. **54** (10).

†*Omospira orientalis* sp. n. Palaeozoic, British Isles, DONALD, Quart. J. Geol. Soc. London **62** (553).

†*Oncochilus* v. *Neritoma*.

*Oocorys* var. n. *sulcata* Bay of Bengal, SMITH, Ann. Mag. Nat. Hist. **18** (170).

†*Oonia* v. *Pseudomelania*.

*Opisthostoma tonkimandus* sp. n. Indo China, DAUZENBERG & FISCHER, J. Conchyliol. **53** (444).

†*Orthonychia jeffersonensis*, *ungula* spp. n. Glen Park Limestone, WELLER, St. Louis, Mo., Trans. Acad. Sci. **16** (435-71).—*O. obtusa* sp. n. Silurian, N. Canada, WHITEAVES, Rep. Geol. Surv. Com. **14** (51 F).

†*Otostoma* v. *Nerita*.

*Ovula haukeni* Heb. & Mun.-Ch., the type of *Vicetia* (q.v.) gen. n.

†*Pachychilus* v. *Melania*.

*Palaina* v. *Diplommatina*.—*P. formosana* sp. n. Formosa, PILSBRY, Philadelphia, Pa., Proc. Acad. Sci. **57** (728).

*Paludestrina diaboli* sp. n. S.W. United States, PILSBRY & FERRISS, Philadelphia, Pa., Proc. Acad. Nat. Sci. **58**.

*Paludina* v. *Vivipara*.—Fauna of W. Europe, KOBELT, Wochenschr. Aquarienkunde, Braunschweig, **3**, (428-31, 551-3); ROTH, Bl. Aquarienkunde **17** (431-2, 438-40).—Of Lake Zurich, ROTH, Bl. Aquarienk. **17** (180-2).—*P. sp.*, ZIEGLER, Wochenschr. Aquarienkunde **3** (95-7).—*P. fasciata* var. n. *diluvianiformis*, HILBERT, Königsberg, Schr. physik. Ges. **46** (44-9).—*P. lecythoides* Benson var. n. *latissima*, *zattei* Crosse & Fischer var. n.

*elongata, quadrata* Bens. varr. n., DAUTZENBERG & FISCHER, J. Conchyliol. **53**, (418-9).—*P. pyramidalis*, ZIEGELER, Wochenschr. Aquarienkunde **3** (221).—*P. pyramidalis* Jan. occurrence in Lake Zurich, ROTH, Natur u. Haus **14** (154-7); Bl. Aquarienkunde **17** (175-6, 271).—*P. vivipara* Lake Zurich, BOETTGER, Wochenschr. Aquarienk. **3** (175).—*P. vivipara*, nervous system, AEBERHARDT, Bern, Mitt. Naturf. Ges. **1905**, (120-1).—*P. vivipara*, embryology, OTTO & TÖNNIGES, Zs. wiss. Zool. **80** (411-514).

†*Paludinopsis* gen. n. of Melaniidæ aff. *Faunus* subgen. *Bastonia*; *P. silatiensis, ngeriensis* spp. n. Cretaceous, Borneo, ICKE & MARTIN, Leiden, Samml. Geol. Reichsmus. **8** (116-9).

*Paramelania crassigrammata* Smith (182), *damoni* Smith (182) L. Tanganyika, figd., SMITH, London, Proc. Zool. Soc. **1906**.

*Parastrophia filum* sp. n. Gulf of Oman, MELVILL, London, Proc. Malac. Soc. **7** (80).

*Parthenina* v. *Odostomia*.—*P. caelata* A. Ad. the type of *Babella* (q.v.) subgen. n.

†*Parvifusus gibber* sp. n. Miocæn, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. **54** (34).

†*Parviscala* v. *Scalaria*.

*Patella intermedia* Jeffreys varr. n. *marteli splendida, depressa, oclracea*, DAUTZENBERG & DUROUCHOUX, Fenille jeunes natural Paris **36**.

†*Peloronta* v. *Nerita*.

†*Peratotoma adelgundae* (74), *præhispidata* (71), *pratexta* (73-4), *scaberrima* (71-2), *theodoræ* (75-6), *ulbrici* (70) spp. n. Miocæn, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. **54**.

†*Pereirca* (?) *schweinfurthi* sp. n. Lutetian, Egypt, OPPENHEIM, Palaeontographica **30** (296-7).

†*Perissoptera* v. *Dicroloma*.

*Pharcidella* v. *Pyramidella*.

†*Phasianella sericata* sp. n. Cretaceous, Hungary, PETHÖ, Palaeontographica, **52** (99-100).

*Philbertia pruinosa* sp. n. Gulf of Gabes, PALLARY, J. Conchyliol. **54** (80).—*P. papillosa* Pallary varr. n. *arnoldi, edei*, PALLARY, J. Conchyliol. **54** (80).

†*Phos acuminatus* sp. n. Java, MARTIN, Leiden, Samml. Geol. Reichsmus. (2) **1** (311-2).—*P. mexicanus* sp. n. Tertiary, Mexico, BÖSE, Mexico, Bol. Inst. Geol. **22** (38).—*P. hoernesii* O. Semp. Miocæn, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. **54** (23).

*Photinula*, notes on, THEILE, Frankfurt a. M., NachrBl. D. malakozool. Ges. **38** (12-5).

†*Pirifusus bailyi* sp. n. Cretaceous, Pondoland, WOODS, Cape Town, Ann. S. Afric. Mus. **4** (324).

†*Platyceras chronus, clytia, pagoda* spp. n. Cambrian, China, WALCOTT, Washington, Nation. Mus. Proc. **29** (14-5).—*P. compactum* sp. n. Silurian, N. Canada, WHITEAVES, Rep. Geol. Surv. Can. **14** (52 F).—*P. erectoides, evolutus, glenparkensis* spp. n. Glen Park Limestone, WELLER, St. Louis, Mo., Trans. Acad. Sci. **16** (435-71).—*P. podolicum* (230) sp. n. Palaeozoic, Poland; *P. cornutum* His., *disjunctum* Giöb., figd., SIEMIRADZKI, Beitr. Pal. Geol. Ost. Ung., **19**.—*P. subsymmetrica* sp. n. Devonian, Germany, SCHMIDT, Berlin, Zs. D. geol. Ges. **57** (561).—*P. willisi* sp. n. Cambrian, China, WALCOTT, Washington, D.C., Smithsonian Inst., U.S. Nation. Mus. Proc. **30** (563).—*P. insolita, modesta* spp. n. Hackberry Group, Iowa, WEBSTER, Iowa Nat. **2** (2-4).

†*Plesioptygmatis* subgen. n. of *Nerinea* (q.v.), BÖSE, Mexico, Bol. Inst. geol. **24** (65-7).

†*Plesiotriton cossmanni* sp. n. Lutetian, Egypt, OPPENHEIM, Palaeontographica **30** (311-2).

*Pleurotoma* spp., BÜLOW, Frankfurt a. M., NachrBl. D. malakozool. Ges. **38**.—W. American spp. of *Genota*, RAYMOND, Nautilus **20** (37-9).—*P. catearia* sp. n. off Sydney, 300 fms. HEDLEY & PETERD, Sydney, N.S.W., Rec. Austr. Mus. **6** (220).—*P. joubini* (11-2), (*Clio-nella*?) *richardi* (13-4), (*Pleurotomella*) *alberti* (16-7) spp. n. off N.W. Africa, DAUTZENBERG & FISCHER, Monaco, Res. Camp. sci. **32** (11-2).—*P. (Hemipleurotoma) alticincta, nodilirata* (*P. tuberculata* Kirk), (285), (*Leucosyrinx*) *augusta* (286), *eremita* (287) spp. n. New Zealand, MURDOCH & SUTER, Wellington, Trans. N. Zeal. Inst. **38**.—*P. (Surcula) nereis* (161), *thisbe, agalma* (162), (*Bathytoma*)

*urania* (163) **spp. n.** Bay of Bengal, SMITH, Ann. Mag. Nat. Hist. 18.

†*Pleurotoma fajumensis* **sp. n.** Luteian, Egypt. OPPENHEIM, Palaeontographica 30 (334).—*P. ickei* (293-4), (*Surcula*) *pamotauensis* (292-3), *rembangensis* (293), (*Drillia*) *palabuanensis* (294), *tjemoroënsis* (295), *sangiranensis* (295), *madiunensis* (296) **spp. n.** Java, MARTIN, Leiden, Samml. Geol. Reichsmus. (2) 1.—*P. inaudita* (48), *veracruzana*, *angermanni* (60), *zapoteca*, *scaliae* (61) **spp. n.** Tertiary, Mexico, BöSE, Mexico, Bol. Inst. Geol. 22.—*P. vasconum* **sp. n.** Tertiary, Biarritz, OPPENHEIM, Berlin, Zs. D. geol. Ges. 58 (90).—*P. (Drillia) tabatensis*, *ojiensis* (15), *sagamicusis*, *para* (16) **spp. n.** Tertiary, Japan TOKUNAGA, Tokyo, J. Coll. Sci. 21.—*P. (Surcula) hypersceniaca*, (180-1), *deperdita* (181-2), (? *Clathurella*) *orba* **spp. n.** Cretaceous, Hungary, PETHÖ, Palaeontographica 52.—*P. amae* Hö. Au., *badensis* M. Hö., *coronata* Mstr., *eugeniae* Hö. Au., *irenae* Hö. Au., *neugeboreni* Hö. Au., *rotata* Brocc., *subcoronata* Bell., *trifasciata* M. Hö., *vernicularis* Grat., Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. 54 (52-3).

†*Pleurotomaria lindhorstiensis* **sp. n.** Cretaceous, Germany, HARNOTT, Berlin, Abh. Geol. Landesanst. 45 (86).—*P. (?) verticillata* **sp. n.** Hackberry Group, Iowa, WEBSTER, Iowa Nat. 2 (2-4).—*P. alata*, *bicineta* figd., SIEMIRADZKI, Wien, Beitr. Pal. Geol. OestUng. 19 (232).

*Pleurotomella* v. *Daphnella*, *Pleurotoma*.—*P. (?) bullioides* (178), *gregaria* (180), *lusitanica* (181) **spp. n.** European seas, SYKES, London, Proc. Malac. Soc. 7.

†*Pliciscala amandae* (96), *infans* (96-7), *microscopica* (97) **spp. n.** Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. 54.

†*Pollia* v. *Cantharus*.

†*Pollia perpusilla* (31-2), *trigonostoma* (31) **spp. n.** Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. 54.

†*Polytremaria (?) solitaria* **sp. n.**, CUMINGS, Indiana, Rep. Dept. Geol. Nat. Res. 30.

*Pomatias septemspiralis*, nervous system, AEBERHARDT, Bern, Mitt. naturf. Ges. 1905 (119-20).—*P. (Upomatias*

*mostarensis* **sp. n.** Bosnien; *P. (E.) elegans* **subsp. n.** *imoschiensis*, WAGNER, Frankfurt a. M., NachrBl. D. malakozool. Ges. 38.

†*Pontiothauma minus*, *pacei* **spp. n.** Bay of Bengal, SMITH, Ann. Mag. Nat. Hist. 18 (159).

†*Potamidex*, v. *Cerithium*.—Revision of *P. tricarinatus* group, BOUSSOC, Paris, Bul. Soc. Geol. 5 (669-78).—*P. cheribonensis* **sp. n.** Java, MARTIN, Leiden, Samml. geol. Reichsmus. (2) 1 320-1).—*P. (Tympantotomus) semseyi* **sp. n.** Cretaceous, Hungary, PETHÖ, Palaeontographica 52 (162-3).—*P. corrugatus* (Brong.), Eocene, Monte Postale, figd., FABIANI, Padova, Atti Ac. Ven. Trent. 2 (149).

†*Pseudochemnitzia acicula* (Dub.) Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. 54 (98).

†*Pseudoliva zitteli* (169-70), *praecursor* (170-1) **spp. n.** Cretaceous, Hungary, PETHÖ, Palaeontographica 52.

†*Pseudomelania sutherlandi* Bail. (312) re-described and figured; *P. (Oonia)* sp. (313), Woods, Cape Town, Ann. S. Afric. Mus. 4.

*Pseudopomatias cos* **sp. n.** Formosa, PILSBRY, Philadelphia, Pa., Proc. Acad. Nat. Sci. 57 (728).

†*Pseudotoma multisulcata* (65), *tornatella* (64), *xeniae* (63-4) **spp. n.** Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. 54.

*Pterocyclus aspersus* **sp. n.** Sumatra, BULLEN, London, Proc. Malac. Soc. 7 (129).

†*Ptychomphalus missouriensis* **sp. n.** Glen Park Limestone, WELLER, St. Louis, Mo., Trans. Acad. Sci. 16 (435-71).

†*Pugnellus auriculatus* **sp. n.** Cretaceous, Pondoland, Woods, Cape Town, Ann. S. Afric. Mus. 4 (319).

*Pupina clara* (244), *subpolita* (245) **spp. n.** Australia; *P. pincticola* **var. n.** Queensland, FULTON, Ann. Mag. Nat. Hist. 17 (244).—*P. douvillei*, *verneaui* **spp. n.** DAUTZENBERG & FISCHER, J. Conchyliol. 53 (440).

*Pupinella denscostata*, *simplex* **spp. n.** Queensland, FULTON, Ann. Mag. Nat. Hist. 17 (245).

*Purpura striata* subsp. n. *bollonsi* Kermadec Is. (331), SUTER, Wellington, Trans. N. Zeal. Inst. 38.—*P. succincta* Martyn, oviposition, HEDLEY, Sydney, N.S.W. Proc. Linn. Soc. 30 (533).

†*Purpura exilis* Ptsch. Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. 54 (34).

*Pusia* v. *Vulpecula*.

*Pyramidella* (*Tiberia*) *japonica*, (*Actaeopyramis*) *digitalis*, (*Iphiana*) *lichkei*, (*Pharidella*) *moffati* (*Obeliscus clavulus* A. Adams), *dunkeri* (*Odostomia fasciata* Dunker) spp. n.; *P. pusilla* subsp. n. *jacksonensis*, *P. (Cingulina) cingulata* subsp. n. *laticingula*, DALL & BARTSCH, Washington, D.C., Smithsonian Inst., U. S. Nation. Mus. Proc. 30.—*P. (Synnola) tenuiplicata* sp. n. New Zealand, MURDOCH & SUTER, Wellington, Trans. N. Zeal. Inst. 38 (296).—*P. rosea* v. *Columbella pseutes*.

†*Pyramidella junghuhni* sp. n. Java, MARTIN, Leiden, Sauml. Geol. Reichsmus. (2) 1 (321-2).—*P. (Obeliscus) insolitus* sp. n. Cretaceous, Hungary, PETHÖ, Palaeontographica 52 (153).

*Pyrazus herculeus* Martyn, radula, geographical distribution, HEDLEY, Sydney N.S.W., Proc. Linn. Soc. 30 (529-33).

†*Pyrenella* v. *Cerithium*.

*Pyrgisculus* v. *Turbonilla*.

*Pyrgostylis* v. *Turbonilla*.

†*Pyrgula brusinai*, *margaritiformis* spp. n. Mäotisches Becken, ANDRUSSOW, St. Peterburg, Verh. Russ. mineral. Ges. 43 (289-451).

*Pyrgulina* v. *Odostomia*.

†*Pyropsis africana* sp. n. Cretaceous, Pondoland, Woods, Cape Town, Ann. S. Afric. Mus. 4 (322).

†*Ranella emmae* Btgr., *gigantea* Lmk.: *papillosa* Pusch; *poppelacki* M. Hö., Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. 54 (39-40).

†*Raphistomina undulatum* sp. n. RAYMOND, Pittsburgh, Pa., Ann. Carnegie Mus. 3.

*Realia* (*Omphalotropis*) *aurora* (249), *macromphala* (250), (*Hydrocena*) *callosa* (252) spp. n. Mariannes, BAVAY, J. Conchyliol. 53.—*R. aurora*, *macromphala* are synonyms of *Omphalotropis*

*elongata*, *quadrasi*, BAVAY, J. Conchyliol. 54 (10).

†*Renauxia* is a synonym of *Glaucomia* Giebl., REPELIN (31).

†*Rhaphitoma bujturana* (88), *clavulina* (86-7), *gertrudae* (83-4), *polyacantha* (82-3), *subfusiformis* (85-6), *tumida* (87-8) spp. n. Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. 54.

*Rhiostoma morleti* sp. n. Indo-China, DAUTZENBERG & FISCHER, J. Conchyliol. 53 (429).

†*Ricinula inconstans* (Michti.), Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. 54 (34).

†*Rimella* v. *Rostellaria*.

*Rissoia*, note, KESTEVEN, Zool. Anz., 30 (823).—*R. emblematica*, *pulvillus* spp. n. Sydney, HEDLEY, Sydney, N.S.W. Proc. Linn. Soc. 30 (526).—*R. filocincta*, sp. n. off Sydney, 300 f., HEDLEY & PETTERD, Sydney, N.S.W., Rec. Austr. Mus. 6 (217).—*R. monterosatoi* sp. n. Gulf of Gabes, PALLARY, J. Conchyliol. 54 (98).—*R. pingue* sp. n. New Zealand, WEBSTER, Wellington, Trans. N. Zeal. Inst. 38 (307).—*R. (Ceratia) turquati* sp. n. Antarctic, LAMY, Bul. Muséum, Paris 11 (479).—*R. paradoxa* Monterosato varr. n. *seminodosa*, *pallaryi*, PALLARY, J. Conchyliol. 54 (96).

†*Rissoia septentrionalis* (26), *meridionalis*, *subcylindrica* (27) spp. n. Post Tertiary, Japan, TOKUNAGA, Tokyo, J. Coll. Sci. 21.

*Rissoina durbanensis* (47), *shepstonensis* (48) spp. n. South Africa, SMITH, Ann. Natal Govt. Mus. 1.

†*Rissoina biploca*, *hoheneggeri*, ASCHER, Wien, Beitr. Pal. Geol. OestUng. 19 (135-72).

†*Rostellaria*? *pachundakii* (289-90), (*Rimella*) *aegyptiaca* (294-5), *libyca* (295) spp. n. Tertiary, Egypt, OPPENHEIM, Palaeontographica 30.—*R. patagonensis*, *rothi* spp. n. Patagonia, IHENING, Revist. Mus. La Plata 11 (238-40).—*R. (Hippocrene) subtilis* sp. n. Cretaceous, Hungary, PETHÖ, Palaeontographica 52 (166).—*R. dentata* Grat., Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. 54 (37).

†*Rostellites capensis* sp. n. Cretaceous, Pondoland, Woods, Cape Town, Ann. S. Afric. Mus. 4 (327).



†*Rouaultia lapugyensis* (Ch. May.), Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. **54** (65).

†*Salpingostoma boreale* sp. n. Silurian, N. Canada, WHITEAVES, Rep. Geol. Surv. Can. **14** (49F).

†*Sandbergeria* v. *Cerithium*.

*Scala durbanensis* sp. n. South Africa, SMITH, Ann. Natal Govt. Mus. **1** (49).—*S. levifoliata* sp. n. New Zealand, MURDOCH & SUTER, Wellington, Trans. N. Zeal. Inst. **38** (295).—*S. lowei* sp. n. California, DALL, Nautilus **20** (44).—*S. nepceusensis* (1), *translucida* (2) spp. n. Victoria, GATLIFF, Melbourne, Proc. R. Soc. Vict. **19**.—*S. platypleura*, *acanthopleura* (145), *valida* (147), *invalida* (148) spp. n. South Australia, VERCO, Adelaide, S. Aust., Trans. R. Soc. **30**.

†*Scala herthae* (92-3), *brandenburgi* (94-5), *xeniae* (93-4) spp. n. Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. **54**.—*S. ornata* Bail. Redescribed and figured, Woods, Cape Town, Ann. S. Afric. Mus. **4** (314).

*Scalaria canephora*, (*Cirsotrema*) *bona* spp. n. Gulf of Oman, MELVILL, London, Proc. Malac. Soc. **7** (70).

†*Scalaria* (*Cirsotrema*) *quaasi* (232-3), *mokattamensis* (233), *beyrichi* [Mayer-Eymar, MS] (233), (*Parviscala*) *cossmanni* (234), (*Acrilla*) *aegyptiaca* (236), *nilotica* (236) spp. n. Tertiary, Egypt, OPPENHEIM, Palaeontographica **30**.

*Scaphella* auctt. non Swains. v. *Adelomelon* gen. n.

*Scutellina calva*, *alboradiata* spp. n. S. Australia, VERCO, Adelaide, S. Aust., Trans. R. Soc. **30** (217).

*Seguenzia polita* sp. n. S. Australia, VERCO, Adelaide, S. Aust., Trans. R. Soc. **30** (222).

†*Semifusus*? (*Mayeria*?) sp., Woods, Cape Town, Ann. S. Afric. Mus. **4** (324).

*Seminella* v. *Columbella*.

†*Sigaretus blanckenhorni* sp. n. Lutetian, Egypt, OPPENHEIM, Palaeontographica **30** (263).—*S. mexicanus* sp. n. Tertiary, Mexico, Böse, Mexico, Bol. Inst. Geol. **22** (57).—*S. striatus* De Serres., Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. **54** (91).

*Simpulum* v. *Cymatium*.

*Sipho torrus* Locard, figd., DAUTZENBERG & FISCHER, Monaco, Res. Camp. sci. **32** (22).

*Sistrum undatum* Chemnitz var. n. *kieneri*, DAUTZENBERG & FISCHER, J. Conchyliol. **53** (395).

*Solariella valida* sp. n. Maio, Cape Verd Is.; *S. cancellata* Jeffr., figd., DAUTZENBERG & FISCHER, Monaco, Res. Camp. sci. **32** (57-8).

†*Solariella affinis* (220-1), *fourtaii* (221-2), *humilis* (222), *prazzi* (222-3) spp. n. Lutetian, Egypt, OPPENHEIM, Palaeontographica **30**.

†*Solarium cyclospirum* sp. n. Cretaceous, Hungary, PETIÜ, Palaeontographica **52** (132-3).—*S. subpatulum* (229-30) sp. n. Lutetian, Egypt, OPPENHEIM, Palaeontographica **30**.—*S. villarellai* sp. n. Tertiary, Mexico, Böse Bol. Inst. Geol. **22** (30).—*S. bailyi* Gabb. redescribed and figured, Woods, Cape Town, Ann. S. Afric. Mus. **4** (315).

†*Soleniscus glaber* sp. n., CUMINGS, Indiana, Rep. Dept. Geol. Nat. Res. **30**.

*Somatogyrus biangulatus*, *excavatus* spp. n. WALKER, Nautilus **19**.—*S. substriatus*, *humerosus*, *quadratus*, *strengi*, spp. n., PILSBRY & WALKER, Nautilus **19**.—*S. lennesseensis*, *aldrichi* spp. n. United States, WALKER, Nautilus **19** (114-117).

†*Sparella* v. *Ancilla*.

*Spirotropis clytotropis*, (?) *megalacme*, (?) *melvilli* spp. n. European seas, SYKES, London, Proc. Malac. Soc. **7** (183).

†*Stazzania* v. *Marginella*.

†*Straparollina circe* sp. n. Cambrian, China, WALCOTT, Washington, U.S. Nat. Mus. Proc. **29** (13).—*S. harpa*, colour markings, RAYMOND, Nautilus **19** (101-2).

†*Straparollus* v. *Euomphalus*.—*S.* (?) *exornatus* sp. n. Permo-Carboniferous, Italy, GORTANI, Paleontogr. Italica, **12** (60).

†*Streptochetus pulveris* sp. n. Tertiary, Biarritz, OPPENHEIM, Berlin, Zs. D. Geol. Ges., **58** (85).

*Strombus campbelli* v. *Alaba*.

†*Strombus glaber* (319), *sondeianus* (319-20) spp. n. Java, MARTIN, Leiden

Samml. Geol. Reichsmus. (2) 1.—*S. parvulus* sp. n. Cretaceous, Tripoli, KRUMBECK, Palaeontographica 53 (118-9).—*S. javanicus* var. n. *semperi* Tertiary, Philippines, SMITH, Philippine J. Sci. 1 (629).—*S. bonellii* Brogn., Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. 54 (37).

†*Strophostylus amplus, inflatus* (53F), *filicinctus* (54F) spp. n. Silurian, N. Canada, WHITEAVES, Rep. Geol. Surv. Can. 14.

†*Subulites harrodsburgensis* sp. n. CUMINGS, Indiana, Rep. Dept. Geol. Nat. Res. 30.

*Surcula* v. *Pleurotoma*.—*S. varians* Suter v. *Columbella inconstans* (q.v.).

†*Surcula alterego* (54-5), *subserrata* (54) spp. n. Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. 54.

*Sveltia* v. *Cancellaria*.

*Sycotypus*, mechanism of odontophore, HERRICK.

†*Sycum tonnoyeri* sp. n. Tertiary, Biarritz, OPPENHEIM, Berlin, Zs. D. Geol. Ges. 58 (86).

*Syrnola* v. *Pyramidella*.—*S. aperanta, clavellosa* spp. n. Gulf of Oman, MELVILL, London, Proc. Malac. Soc. 7 (73).

†*Syrnola biarritzensis* sp. n. Tertiary, Biarritz, OPPENHEIM, Berlin, Zs. D. Geol. Ges. 58 (81).

†*Tectus* v. *Trochus*.

†*Terebellum schweinfurthi* sp. n. Paleocene, Egypt, OPPENHEIM, Palaeontographica 30 (298).

*Terebra* (?) *dyseritos* sp. n. South Australia, VERO, Adelaide, S. Aust., Trans. R. Soc. 30 (149).—*T. filmerae* sp. n. South Africa, SOWERBY, London, Proc. Malac. Soc. 7 (37).

†*Terebra subatorquata* sp. n. Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. 54 (22).—*T. tjilonganeensis* (283), *butaciana* (284), *pamotanensis* (284-5), *ickei* (285), *junghuhni* (285-6), *talahabensis* (286), *sindangbaranensis* (286-7), *simplicissima* (287), *ejecta* (287) spp. n. Java, MARTIN, Leiden, Samml. geol. Reichsmus. (2) 1.

†*Thersitea* (?) *cossmanni* sp. n. Paleocene, Egypt, OPPENHEIM, Palaeontographica 30 (317-8).

*Tiberia* v. *Pyramidella*.

*Titanopoma* v. *Auritus*.

†*Torcula* v. *Turritella*.

*Trifora cerea, shepstonensis* spp. n. South Africa, SMITH, Ann. Natal Govt. Mus. 1 (43).

*Triforis grimaldii* sp. n. Teneriffe I. and Böa Vista I. (C. Verd Is.), DAUTZENBERG & FISCHER, Monaco, Res. Camp. sci. 32 (41-2).

*Triphora infelix* sp. n. New Zealand, WEBSTER, Wellington, Trans. N. Zeal. Inst. 38 (307).

*Tritonidea agalma* sp. n. Bay of Bengal, SMITH, Ann. Mag. Nat. Hist. 18 (164).

†*Tritonidea everwijnii* sp. n. Java, MARTIN, Leiden, Samml. Geol. Reichsmus. (2) 1 (309-10).

†*Tritonium subgosaucicum, albini* spp. n. Lower Campanian, S.E. France, REPELIN, Marseille, Ann. Mus. 10 (22-3).

*Trivria acutidentata*, note on, BUTTON, Nautilus 19 (132).

*Trochus camelophorus* Cape Maria van Diemen, N.Z. (309), (*Clanculus*) *takapunaensis* Takapuna N.Z. (310) spp. n., WEBSTER, Wellington, Trans. N. Zeal. Inst. 38.—*T. cinerarius*, Trematode parasites; *Cercaria pachycerca*, Lespès (168-9), *C. vaullageardi*, sp. n. (175-6), PELSENER, 3.

†*Trochus reussi* sp. n. Lower Campanian, S.E. France, REPELIN, Marseille, Ann. Mus. 10 (41).—*T. maoticus* sp. n. Mäotisches Becken, ANDRUSSOW, St. Peterburg, Verh. Russ. mineral. Ges. 43 (289-451).—*T. metrius* sp. n., ASCHER, Wien, Beitr. Pal. Geol. OestUng. 19 (135-72).—*T. quadricoronatus* sp. n. Cretaceous, Germany, HARBORT, Berlin, Abh. Geol. Landesanst. 45 (87).—*T. shinagawensis* (29), *angulatus* (30) spp. n. Post Tertiary, Japan, TOKUNAGA, Tokyo, J. Coll. Sci. 21.—*T. (Basilissa) libycus* (224), (? *Gibbula*) *biochei* (224-5) spp. n. Tertiary, Egypt, OPPENHEIM, Palaeontographica 30.—*T. (Monodonta) junghuhni* sp. n. Java, MARTIN, Leiden, Samml. Geol. Reichsmus. (2) 1 (323-4).—*T. (Tectus) scherémensis* (105-6), (*Ziziphinus*) *schaftäulli* (106-7), (*Eutrochus*) *neumayri* (107-8), (*Gibbula*) *pilari* (108-9) spp. n. Cretaceous Hungary, PETHÖ, Palaeontographica 52.

*Trophon waipipicola* sp. n. Waipipi, N.Z., WEBSTER, Wellington, Trans. N. Zeal. Inst. **38** (310).—*T. (Dorcotrophon) planispina* sp. n. Bay of Bengal, SMITH, Ann. Mag. Nat. Hist. **18** (163).

†*Trophon* (?) *isthmicus* sp. n. Tertiary, Mexico, BÖSE, Mexico, Bol. Inst. Geol. **22** (59).—*T. capito* (Phil.), Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. **54** (46).

†*Turbo bitropistus* sp. n. ASCHER, Wien, Beitr. Pal. Geol. OestUng. **19** (135-72).—*T. graugensis* n. n. for *T. hamiltonensis* Pritchard non Harris, PRITCHARD, Vict. Nat., Melbourne **23** (117).—*T. (? Collonia) lenzi* sp. n. Cretaceous, Hungary, PETIÖ, Palaeontographica **52** (100-1).

*Turbonilla* subgen. n. *Babella* for *Parthenia caelata* A. Ad., *Nisiturris* for *T. crystallina* sp. n.; *T. approximata*, *infantula*, *actopora*, *acomia*, *garretiana* (*Odosstomia sulcata* Garrett), (*Chemnitzia*) *abseida*, (*Nisiturris*) *crystallina*, (*Pyrgisculus*) *candidissima* (*Dunkeria candida* A. Adams), (*Mormula*) *aulica* (*varicosa* Dunker), (*Lanella*) *bella*, *peasei* (*Laneca elongata* Pease), (*Babella*) *caelator* (*Parthenia caelata* A. Adams) spp. n. DALL & BARTSCH, Washington, D.C., Smithsonian Inst., U.S. Nation. Mus. Proc. **30**.—*T. madrinensis* sp. n. Antarctic, LAMY, Bul. Muséum, Paris **11** (481).—*T. (Pyrgostylis) delia* (73), *hermia* (74) spp. n. Gulf of Oman, MELVILL, London, Proc. Malac. Soc. **7**.

†*Turbonilla junghuhni*, *sindangbaranensis* spp. n. Java, MARTIN, Leiden, Samml. geol. Reichsmus. (2) **1** (322).—*T. paucicostulata* Post Tertiary, Japan, TOKUNAGA, Tokyo, J. Coll. Sci. **21** (22).

*Turricula* v. *Mitra*.

†*Turricula* (*Vulpecula*) *ickei* (305), (*Callithea*) *tjilonganensis* (305), *dijki* (306), (?) *gendinganensis* (306) spp. n. Java, MARTIN, Leiden, Samml. geol. Reichsmus. (2) **1**.—*T. (Mesorhytis) monilifera* sp. n. Cretaceous, Hungary, PETIÖ, Palaeontographica **52** (179-80).

†*Turris* (?) *kafraria* (Griesbach) re-described and figured, WOODS, Cape Town, Ann. S. Afric. Mus. **4** (325).

*Turrispira* sect. n. of *Turritella* (q.v.), PETIÖ, Paleontographica **52** (142-3).

†*Turritella*, ASCHER, Wien, Beitr. Pal. Geol. OestUng. **19** (135-72).—Sect. n.

*Turrispira* (142-3) type *T. fallax* sp. n. Cretaceous, Hungary; *T. telegdiana* (137-8), *szerémensis* (138-9), *T. interposita* (140), (*Torena*) *bicorvolata* (134-5), *sulcato-carinata* (136) spp. n. Cretaceous, Hungary, PETIÖ, Palaeontographica **52**.—*T. atamanica* sp. n. Miocene, Novotcherkassk, BOGATCHEW, St. Peterburg, Bull. Com. géol. **24** (159-88).—*T. cardenasensis*, *potosiana*, *waitzi* spp. n. Senonian, Cardenas, Mexico, BÖSE, Mexico, Bol. Inst. geol. **24** (62-5).—*T. cureti* (30), *trincta* (30-1), *zekelii* (31) spp. n. Lower Campanian, S.E. France, REPELIN, Marseille, Ann. Mus. **10**.—*T. pseudimbricata* (241-2), *crocodili* (244-5), *fraudatrix* (246), *nilotica* (246-7) spp. n. Lutetian, Egypt, OPPENHEIM, Palaeontographica **30**.—*T. septemcostata* (116), *turbo* (117) spp. n. Cretaceous, Tripoli, KRUMBECK, Palaeontographica **53**.—*T. tuxlopecensis* (31), *aguilerae* (32) spp. n. Tertiary, Mexico, BÖSE, Mexico, Bol. Inst. Geol. **22**.—*T. (Zaria) bonei* Bail. remarks on, fig., WOODS, Cape Town, Ann. S. Afric. Mus. **4** (317).

†*Turritoma* (?) *teuifilosa* sp. n. Palaeozoic, England, DONALD, Quart. J. Geol. Soc. **82** (570).

†*Tylostoma intermedium* sp. n. Mesozoic, Portugal, CHOFFAT, J. Conchyliol. **54** (39).

†*Typhis fistulosus* Brocc., *tetropterus* Bronn, *wenzelidesi* M. Hö., Miocän, Ungarn, BOETTGER, Verh. siebenb. Ver. Naturw. **54** (46).

†*Tympanotomus* v. *Potamides*.

*Uromitra ebenus* Lamarck varr. n. *debilis*, *striolata*, PALLARY, J. Conchyliol. **54** (83).

†*Uzita* v. *Nassa*.

*Valvata* subgen. n. *Atropidina*, type *V. pulchella* Stud., *Liratina*, type *V. baicalensis* Dyb., *Megalovalvata*, type *V. grubei* Dyb., LINDHOLM, Frankfurt a. M., NachrBl. D. malakozool. Ges. **38** (190).—*V. micra* sp. n. PILSBRY & FERRISS, Philadelphia, Pa., Proc. Acad. Nat. Sci. **58**.—*V. sinceva* var. n. *danielsi*, *bicarinata* varr. n. *perdepressa*, *connectans*, United States, WALKER, Nautilus **20** (25-32).

†*Valvata cholnokyi* sp. n. *piscinalis* Müll., figd., Tertiary, China, SCHLOSSER, Budapest, Ann. Mus. Nat. Hung. **4** (390-1).

†*Vermetus pulcher* sp. n. Tertiary, Mexico, BÖSE, Mexico, Bol. Inst. Geol. 22 (32).—*V. (? Vermiculus) tricarinatus* sp. n. Cretaceous, Hungary, PETHÖ, Palaeontographica 52 (144).

†*Vermiculus* v. *Vermetus*.

†*Vespertilio* v. *Voluta*.

†*Vicarya callosa* var. n. *semperi* Tertiary, Philippines, SMITH, Philippine J. Sci., 1 (628).

*Vicetia* gen. n. type *Ovula hautkeni* Heb. & Mun.-Ch., figd., FABIANI, Padova, Atti Ac. Ven.-Trent. 2 (150).

*Vivipara chinensis* var. n. *patris*, KOBELT in MARTINI & CHEMNITZ, Syst. Conch. Cab.—*V. costulata* Martens varr. n. *globosa*, *alta*, GERMAIN, Bul. Mus., Paris 12 (299).—*V. verus* occurrence near Hamburg, FRANCK, Bl. Aquarienkunde 17 (298-9).

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*Burtoa nilotica*, anatomy, REYNELL, London, Proc. Malac. Soc. 7 (197).

*Caemaena mansuyi* sp. n. Indo China, DAUTZENBERG & FISCHER, J. Conchyliol. 53 (357).—*C. cicalricosa* Müller var. n. *connectens*, DAUTZENBERG & FISCHER, J. Conchyliol. 53 (356).

*Campylaea* v. *Helix*.—*C. thracica* (46), Philippopel, *subsetosa* (47), *frangepanii* (53) Welebit spp. n.; *C. nikitai* var. n. *fagorum* (61) Montenegro, *trizona* var. n. *rhodopensis*, *setulosa* var. n. *spelaea*, ROSSMÄSSLER, Iconographie 12.

*Cantareus* (or *Tapada*) *apertus* Born, HONIGMANN, Frankfurt a. M., NachrBl. D. malakozool. Ges. 38 (44-5).

*Caracolus* v. *Pleurodonta*.

*Carychium exile* var. n. *canadense*, CLAPP, Nautilus 19 (138-40).

*Cerion*, evolution, PLATE, Verh. D. zool. Ges. 16 (127-138).

*Chaenaxis* subgen. n. of *Bifidaria*, PILSBRY & FERRISS, Philadelphia, Pa., Proc. Acad. Nat. Sci. 58.

*Chloritis*, notes on species; *C. eduardi* (41), *ponsonbyi* (42) Moluccas, *macrostoma* (42) Bangaya, *subtilis* (44) German New Guinea, *fausta* (45) New Macklenberg, *conjuncta* (47), *fraterna* (47), *exigua* (48) New Ireland, *cumingi* (48) New Guinea *novocambria* (49), *disjuncta* (49) New South Wales, *layardi* (49) Torres Straits spp. n.; *C. wuguiculina* var. n. *fusca* (41) Buru, GUDE, London, Proc. Malac. Soc. 7 (40-50).—*Chloritis*, notes on species; *C. beddomei* (105) *holoserica* New Guinea, *teres* (106) New Ireland, *fraudulenta* (107) New Guinea, *challengeri* (108), *astacus* (108), *agamemnon* (108) Queensland, *mensonnensis* (109) Tonkin, *rufofasciata* (109), *sykesi* (110) Sumatra, *curychasma* (110) Sjerah I., N. of Tenimber spp. n., GUDE, London, Proc. Malac. Soc. 7.—*C. heteromphalus*, notes, PILSBRY, London, Proc. malac. Soc. 7 (196).—*C. eduardi*, note, ANCEY, Nautilus 20 (47).

*Chondrulus* v. *Buliminus*.

*Clausilia lamolthei* sp. n. Yunnan, ANCEY, J. Conchyliol. 54 (21).—*C. lante-noisi* (368), *lavillei* (369) spp. n. Indo China, DAUTZENBERG & FISCHER, J. Conchyliol. 53.—*C. planasiensis* sp. n. Elba, POLLONERA, Torino, Boll. Musei Zool. anat. 20 No. 517 (8).—*C. robustior* sp. n. Sumatra, BULLEN, London, Proc.

Malac. Soc. 7 (127).—*C. rothschildi* sp. n., Abyssinia, NEUVILLE & ANTHONY, Bul. Mus. Paris 12 (412).—*C. (Serrulina) serrulata* Pfr. var. n. *amania*, Asia Minor, NÄGGELE, Frankfurt a. M., NachrBl. D. malakozool. Ges. 38.

*Cochlicella contermina* Shuttle, note, POLLONERA, Torino, Boll. Musei Zool. anat. 20 No. 517.

*Coclocentrum* subgen. n. *Ptychodonta*; *C. piltieri* sp. n., N. America, BARTSCH, Washington, D.C., Smithsonian Inst., U. S. Nation. Mus. Proc. 31.

*Coelorus*, notes on, with figg., GUDE Ann. Mag. Nat. Hist., London 18 (433).

*Cœlostemma* v. *Holospira*.

*Curvella minuta*, *alabastrina* spp. n. Philippines, DA COSTA, London, Proc. Malac. Soc. 7 (99).—*C. daillyana* (= *Hapalus sulcatus* d'Ailly), *redfieldi*, *liberiana*, *philippinica* spp. n., PILSBRY, Man. Conch. 18.

*Daudebardia*, notes on, WAGNER, Frankfurt a. M., NachrBl. D. malakozool. Ges. 38 (177-86).

*Dissotropis* subgen. n. of *Anisospira*, BARTSCH, Washington, D.C., Smithsonian Inst., U. S. Nation. Mus. Proc. 31.

*Drymaeus sykesi* (7), *notabilis* (7), *notatus* (7) Colombia, *acuminatus* (8) Brazil, *pseudofusoides* (8), *angustus* (8) Colombia, *prestoni* (9) Panama spp. n., DA COSTA, London, Proc. Malac. Soc. 7.—*D. spadiceus* (97), *alabastrinus* (98) Colombia, *rosenbergi* (98), *castaneo-strigatus* (98) Peru spp. n., DA COSTA, London, Proc. Malac. Soc. 7.—*D.* spp. notes, SIMPSON, Nautilus 20 (24).—*D. dormani*, habits, etc., Press Bull. Florida Agric. Stat. 59; Nautilus 19 (6-9).

*Dyakia*, notes, with anatomy of *D. striata*, GODWIN-AUSTEN, London, Proc. Malac. Soc. 7 (93).—Transferred to Zonitidae, PILSBRY, 10.

*Elisma* v. *Helix*.

*Elma* v. *Ennea*.

*Endodonta marsupialis*, *kamehameha*, *concentrata* spp. n. Hawaiian Is., PILSBRY & VANATTA, Philadelphia, Pa., Proc. Acad. Nat. Sci. 57 (783-6).

*Ennea (Elma) mansuyi* sp. n. Indo China, DAUTZENBERG & FISCHER, J. conchyliol. 53 (345).—*E. suinhoei* subsp. n. *hotawana*, Formosa, PILSBRY,

Philadelphia, Pa., Proc. Acad. Nat. Sci. **57** (736).

*Epiphragmophora* v. *Helix*.—*E. kelletii* (Fbs.), *stearnsiana* (Gabb) notes, CLAPP, *Nautilus* **20** (13-6).—*E. tudiculata*, colony, KELSEY, *Nautilus* **20** (61).

*Epirobia* subgen. n. *Propilsbrya*; *E. coaluitensis*, (*Propilsbrya*) *nelsoni* spp. n. N. America, BARTSCH, Washington, D.C., Smithsonian Inst., U. S. Nation. Mus. Proc. **31**.

*Eucalodium decollatum* subsp. n. *guatemalensis*, Central America, BARTSCH, Washington, D.C., Smithsonian Inst., U. S. Nation. Mus. Proc. **31**.

*Eulota* v. *Helix*.—*E. (Plectotropis) impeza*, *virginensis*, *hebes*, *perplexa* spp. n. Formosa, *E. (P.) fulvicans* subsp. n. *browni*, *E. lautsi* subsp. n. *micra*, PILSBRY, Philadelphia, Pa., Proc. Acad. Nat. Sci. **57**, (730-2).

*Euonyma turriiformis* subsp. n. *sarissa*, PILSBRY, Man. Conch. **18**.

*Ferussacia pauluceiana* sp. n. Elba, POLLONERA, Torino, Boll. Musei Zool. Anat. **20** No. 517 (7).

*Fritieicola (Theba) eliae* sp. n. Asia Minor, NÄGELE, Frankfurt a. M., Nachr.-Bl. D. malakozool. Ges. **38**.

*Ganesella albida* subsp. n. *insignis*, Formosa, PILSBRY, Philadelphia, Pa., Proc. Acad. Nat. Sci. **57** (736).

*Glossula*, species from India and Ceylon; *G. subperoteti* (163), *canarica*, *subiornata* (164), *subscruva* (166), *jeyporensis* (167), *subjerdoni*, *gracilis* (170) India, *pusilla* India and Ceylon, *subfilosa* (171) India spp. n., BEDDOME, London, Proc. Malac. Soc. **7**.

*Goniostomus subhybridus* sp. n., DA COSTA, London, Proc. Malac. Soc. **7** (97).

*Gulnarva* v. *Limnaea*.

*Gyraulus* v. *Planorbis*.

*Hapalus subleucatus* d'Ailly is a *Curvella*, PILSBRY, Man. Conch. **18**.

*Haplocion* v. *Holospira*.

*Haploptychius* gen. n., type *Streptaxis sinensis* Gould, MÖLLENDORFF in MARTINI & CHEMNITZ, Conchylien-Cabinet, **1** (127).

*Haplostemma* v. *Holospira*.

*Helicarion hiraseanus* sp. n. Formosa, PILSBRY, Philadelphia, Pa., Proc., Acad. Nat. Sci. **57** (740).

*Helicigona arbustorum*, sinistral. SHAW, Leeds, J. Conch. **11** (330).—*H. lapicida*, white form, JACKSON.

*Helicodiscus eigenmanni* subsp. n. *arizonensis*, S.W. United States, PILSBRY & FERRISS, Philadelphia, Pa., Proc. Acad. Nat. Sci. **58**.

*Helicogena* v. *Helix*.

*Helix*, the section *Blisma*, CAZIOT & FAGOT, Feuille jeunes natural. (121-5).—Notes on spp. of *Mabile* & *Ferussac*, ANGEY, J. Conchyliol., Paris **53** (310-27).—Notes on spp., GERMAIN, Nantes, Bul. soc. sci. nat. (sér. 2) (1-68); JACKSON.—Function of salivary glands, PACAUT & VIGIER, Paris, C.-R. soc. biol., **60** (232-4).—Salivary glands, PACAUT & VIGIER, Paris, C.-R. soc. biol. **60** (419-21).—Glands of *Nalepa*, PACAUT & VIGIER, Paris, C.-R. soc. biol. **60** (230-2).—Function of glands of *Nalepa*, PACAUT & VIGIER, Paris, C.-R. soc. biol. **60** (545-6).—Centrosomes of nerve-cells, LEGENDRE, Paris, C.-R. soc. biol. **60** (490-1).—Seminal apparatus, POPOVICI-BAZOSANU, Paris, C.-R. Acad. sci. **143** (70-2).—*H. eotiellae*, *rodana* spp. n. Aragon, FAGOT, Zaragoza, Bol. Soc. Arag. **5** (172).—*H. (Helicogena) thracica* (269), *sturanyi* (278) Balkan, *despotina* (279) Balkan, *stolacensis* (284) Bosnien, Serbien, *pivensis*, var. n. *lubnicensis* (285) Balkan, KOBELT in MARTINI & CHEMNITZ, Conchylien-Cabinet **1**.—*H. guebbardi* Frankreich, *saintivesii* (56), Alpes marit. spp. n.; *H. rumelica* var. n. *eumolpia*, *vicicensis* var. n. *tacheiformis*, *pomatia* varr. n. *temensis*, *costellata*, *transsylvanica*, *claudiensis*, KOBELT in ROSSMÄSSLER, Iconographie **12**.—*H. pomatia* var. n. *kapellae*, *serbica*, *expansilabris*, *elsae*, *dobrudschae*, *rhodopensis*, *duschekeusis*, *krüperi*, *pedemontana*, *H. secernenda*, *hormosi* varr. n. *njegusensis*, *subligata*, *subalbescens*, *dimidiata*, *subobtusa*, *H. albescens* var. n. *bulgarica* *H. castanea* var. n. *nigerrima*, *H. ligata* varr. n. *meyeri*, *lobiancoi*, *lindeni*, *golae*, *virginalis*, *H. campana* var. n. *cucuminis*, *H. tucorum* var. n. *byzantina*, *H. gussoneana* var. n. *mileti*, *H. buchii* var. n. *adsharica*, *H. kolasinensis*? var. n.

*bosnica*, *H. cincta* var. n. *elegans* Kormos, *H. pelagica* var. n. ? *cosensis* KOBELT in MARTINI & CIEMNITZ. Syst. Conch. Cab.—*H. (Eulota) jourdyi* Morlet, var. n. *minor*, DAUTZENBERG & FISCHER, J. Conchyliol. 53 (362).—*H. (Isaurica) praececellens* Näg. var. n. *amanica* Asia Minor, NÄGELE, Frankf. a. M., NachrBl. D. malakozool. Ges. 38.—*H. jejuna* Say. transferred to *Praticolella*, PILSBRY, Nautilus 20 (32-3).—*H. acuta* in France, GIARD, Feuille jeunes natural., Paris 36 (13); BOULY DE LESDAIN, GONON, LOBEAU, *Ibid.* (31).—*H. candidissima*, distribution, NAVAS.—*H. hortensis* in N. America, JOHNSON, Nautilus 20 (73-80, 95-6).—*H. hortensis* in Newfoundland, COCKERELL, Nautilus 20 (94).—*H. limbata*, note on dispersal, GIARD, Feuille jeunes natural., Paris 36 (45); DOLFFUS, *ibid.*, (45).—*H. (Campylodea) foetens*, ROSSM., introduced near Donau-stauf, CLEISSIN, Regensburg, Ber. naturw. Ver. 10 (46).—*H. (Vallonia) excentrica*, distribution, WÜST, Frankfurt a. M., NachrBl. malakozool. Ges. 38 (218-9).—*H. (V.) saoniana*, note, WÜST, Frankfurt a. M., NachrBl. D. malakozool. Ges. 38 (206).—*H. muralis*, note on, CAZIOT, Paris, Bul. soc. zool. 30.—*H. pomatia*, notes on sinistral, JACKSON.—*H. pomatia*, salivary glands, PACAUT & VIGIER, Arch. anat. microsc., Paris 8 (425-659); Paris, C.-R. Acad. sci. 142 (412-4); C.-R. Assoc. anat. 1905 (175-6).—*H. pomatia*, nervous system, AEBERHARDT, Bern, Mitt. naturf. Ges. 1905 (123-5); VENEZIANI, Anat. Anz., Jena 29 (241); LEGENDRE, Paris, C.-R. Soc. biol. 61 (19); C.-R. Ass. Anatom. 1906 (85).—*H. pomatia*, nerve cells, LEGENDRE, Paris, C.-R. soc. biol. 60 (388-9, 455-90).—*H. pomatia*, biology, SCHMITZ, Natur. u. Offenb., Münster 52 (241-3).—*H. pomatia*, reproduction and oviposition, MEISENHEIMER, Verh. D. zool. Ges. 16 (51-61).—*H. serpentaria*, CAZIOT & FAGOT, Paris, Bul. soc. zool. 30 (12-5).—*H. varmiculata*, CAZIOT & FAGOT, Paris, Bul. soc. zool. 29 (19-23); CAZIOT, Paris, Bul. soc. zool. 30 (11).

†*Helix ropuebrunensis, vorceti* spp. n. Post-Tertiary, Alpes Maritimes, MAURY & CAZIOT, Paris, Bul. soc. geol. 5 (601).—*H. (Epiplragmophora?) dubosa* sp. n. John Day beds, Oregon, STEARNS, Berkeley, Univ. Cal. Pub., Bull. Dept. Geol. 5.—*H. terrena* var. n. *conumonti*, Post-Tertiary, France, BABOR, Amiens, Bull.

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Soc. linn. 18 (29).—*H.* spp., Tertiary, China, figd., SCHLOSSER, Budapest, Ann. Mus. Nat. Hung. 4 (389-90).

*Hemiplecta xullaensis* sp. n. Xulla Is., SCHEPMAN, Leiden, Notes Mus. 28 (120-8).

*Holospira* subgen. n. *Liostenma*, type *H. (Haplostemma) hamiltoni* Dall, *Stalactella*, *Tristemma*; *H. mexicana*, *palmeri*, *infanta*, *painteri*, *oaxacanu*, (*Bostrichocentrum*) *goldmani*, *hidalgocensis*, *tamaulipensis*, (*Liostenma*) *durangoensis*, *yucatanensis*, (*Haplocion*) *townsendi*, *lichenophora*, *tantalus*, (*Coelostemma*) *herreræ*, (*Stalactella*) *rosei* spp. n. *H. goldfussi* subsp. n. *anacachensis*, N. America, BARTSCH, Washington, D.C., Smithsonian Inst., U. S. Nation. Mus. Proc. 31.

†*Ilyalimia subolivetorum* sp. n. Post Tertiary, Alpes-Maritimes, MAURY & CAZIOT, Paris, Bull. soc. geol. 5 (599).

*Hygromia rufescens*, sinistral, SHAW, Leeds, J. Conch. 11 (281).

*Iberus spinac, trecchinensis* spp. n., ROSSMÄSSLER, Iconographie 12.

*Isaurica* v. *Helix*.

*Isidora tabulata* Gld., *hochstetteri* Dkr., *novae-zelandiae* Sby., *antipodea* Sby., *lirata* Ten.-Wds., figd., SUTER, Wellington, Trans. Proc. N. Zealand Inst. 38 (333).

*Jamina biplicata* Studer, occurrence at Brandon, Suffolk, CHASTER, Leeds, J. Conch. 11 (319-20).

*Kaliella costata, longa, venusta* spp. n. Formosa, *K. crenulata* subsp. n. *hotawana*, PILSBRY, Philadelphia, Pa., Proc. Acad. Nat. Sci. 57 (743-4).—*K. microbembix* sp. n. Hupe, FULTON, Ann. Mag. Nat. Hist., London 17 (248).

*Laminella* v. *Amastra*.—*L. semiveiculata* sp. n. Hawaiian Is., BORCHERDING, Zoologica 48.

*Lartetia* and *Vitrella*, BOETTGER, Frankfurt a. M., NachrBl. D. malakozool. Ges. 38 (30-2).

*Levantina chanzirensis* sp. n. S. Europe, KOBELT, Frankfurt a. M., NachrBl. D. malakozool. Ges. 38 (15-6).

*Limax cecconii* sp. n. Palästina, SIMROTH, Frankfurt a. M., NachrBl. D.

b 21

malakozool. Ges. 38 (84).—*L. agrestis*, SCHÖPF, Forstwiss. Centralbl., 28 (609-610).—*L. maximus*, eyes, SMITH, Bull. Mus. Comp. Zool. Harvard 48 (231).

*Limicolaria ponsonbyi, smithi* spp. n. Uganda, PRESTON, London, Proc. Malac. Soc. 7 (89).—*L. turrisiformis* Martens var. n. *obesa* (170), *turris* Pfeiffer. var. n. *duperthuisi*, GERMAIN, Bul. Mus., Paris 12.

*Limnaca bongsonenais* sp. n. Sumatra, BULLEN, London, Proc. Malac. Soc. 7, (14).—*L. crassiuscula* sp. n. Mariannes BAVAY, J. Conchyliol., Paris 53 (255).—*L. tchadiensis* sp. n. Central Africa, GERMAIN, Bul. Museum, Paris 11 (485).—*L. (Bulinus) egegria* sp. n. Northwest Australia, PRESTON, London, Proc. Malac. Soc. 7 (36).—*L. (Limnus) lagorii* sp. n. Crimea, DYBOWSKI, St. Peterburg, Bull. Ac. Sc., 18 (113-6).—*L. (Gulnaria) ovata* Drap. var. n. *köhleri*, HONIGMANN, Frankfurt a. M., NachrBl. D. malakozool. Ges. 38 (45-6).—*L. peregra*, sinistral, TAYLOR, Naturalist, London 1906 (114); TRECHMANN, Naturalist London 1906 (113).—v. *Limnaca*.

†*Limnaca depereti* sp. n. Tertiary, France, CAZIOR, Béziers, Bul. Soc. etud. sci. nat. 27 (20).—*L. durandi* n. n. Paris Basin, DOLLFUS, Bull. carte géol. France 16 (24).—*L. maxima* sp. n. John Day Beds, Oregon, STEARNS, Berkeley, Univ. Cal. Pub., Bull. Dept. Geol., 5.—*L. merzbacheri*, etc. spp. n. Tertiary, Karkarâ, SCHLOSSER, Budapest, Ann. Mus. Nat. Hung. 4 (375-6).

*Limnus* v. *Limnaca*.

*Liostemma* subgen. n. of *Holospira*, type II. (*Haplostemma*) *hamiltoni* Dall, BARTSCHI, Washington, D.C., Smithsonian Inst., U. S. Nation. Mus. Proc. 31 (141-3).

*Limnaca* v. *Limnaca*.—*L. danieli* sp. n. Indiana, BAKER, Nautilus 20, (55-6).—*L. hinkleyi* sp. n. Idaho, BAKER, Nautilus 19 (142-3).—*L. nasoni* sp. n. Michigan, BAKER, St. Louis, Mo., Trans. Acad. Sci. 16 (1).—*L. bulimoides* subsp. n. *cockerelli* S. W. United States, PILSBRY & FERRISS, Philadelphia, Pa., Proc. Acad. Nat. Sci. 58.—*L. elodes*, habits, WALTER, Brooklyn, N.Y., Inst. Arts. Sci., Cold Spring Harbor Monog. 6 (1-35).—*L. megasoma*, note,

LATCHFORD, Nautilus 20 (83).—*L. stagnealis*, nervous system, AEBERHARDT, Bern. Mitt. Naturf. Ges. 1905 (121-3).

†*Limnaca sieverti, scudderi* spp. n. Colorado, COCKERELL, New York, N.Y., Bull. Amer. Mus. Nat. Hist. 22.

*Macrochlamys douvillei* sp. n. Indo China, DAUTZENBERG & FISCHER, J. conchyliol. 53 (351).—*M. nitidus* sp. n. Formosa, PILSBRY, Philadelphia, Pa., Proc. Acad. Nat. Sci. 57 (741).—*M. hendersoni* n.n. for *M. dohertyi* Henderson, ANCEY, J. Conchyliol. 53 (320).

*Macrodontes königsvaldi, simplex* spp. n., Brasil, THIELE, Frankfurt a. M., NachrBl. D. malakozool. Ges. 38 (69-71).

*Martensia boukeræ* sp. n. Uganda, PRESTON, London, Proc. Malac. Soc. 7 (88).

*Medora* v. *Pupa*.

*Microcystina lamprobasis, lissobasis, radiata* spp. n. Formosa, PILSBRY, Philadelphia, Pa., Proc. Acad. Nat. Sci. 57 (742).

*Microstoma* a synonym of *Brachypodella* (q.v.).

*Mirus* v. *Bulininus*.

*Murella rovellensis, sybaritica* spp. n. Italy, KOBELT, Frankfurt a. M., NachrBl. D. malakozool. Ges. 38 (204-5).

*Myosotella* gen. n. for *Alexia myosotis*, &c., MONTEROSATO, Naturalista sicil., Palermo 18 (126).

*Nanina hageni* sp. n. Banka I., WEBER, Frankfurt a. M., NachrBl. D. malakozool. Ges. 38 (164-5).—*N. rothschildi* sp. n. Abyssinia, NEVILLE & ANTHONY, Bul. Mus., Paris 12 (414).

*Neoplanorbis* gen. n. for *N. tantillus* sp. n. United States, PILSBRY, Nautilus 20 (50-1).

*Newcombia carinella* sp. n. Hawaiian Is., BALDWIN, Nautilus 19 (135-9).

*Odontartemon* subgen. n. v. *Perrotetia*.

†*Omphalina* (?) *laminarum* sp. n. Colorado, COCKERELL, New York, Bull. Amer. Mus. Nat. Hist. 22.

*Opeas opella* sp. n. Hawaiian Is., PILSBRY & VANATTA, Philadelphia, Pa., Proc. Acad. Nat. Sci. 57 (783-6).—

*O. bavriense* (= *Stenogyra lucida* Gibbons), *sykesi*, *hendei*, *satsumense*, *kusaiense*, *argutum*, *yucatanense*, *adamsi* spp. n.; *O. octogyrum* var. n. *amazonicum*, *gracile* var. n. *neocaledonicum*, *johanninum* var. n. *mayottense*, PILSBRY, Man. Conch. 18.

*Oreula* v. *Pupa*.

†*Oreohelix yavapai* subsp. n. *compactula*, COCKERELL, Nautilus 19 (46-7).

*Paropeas* subgen. n. of *Prosopeas*. PILSBRY, Man. Conch. 18.

*Partulina flemingi*, *lemmoni*, *earnicolor*, *kaeana*, *cooperi*, *fulvicans* spp. n. Hawaiian Is., BALDWIN, Nautilus 19 (111-3, 135-9).

*Paryphanta atramentaria*, anatomy, MURDOCH, Wellington, Trans. N. Zeal. Inst. 38 (313-6).

*Patula hookeri*, occurrence in Ker-guelen, RICHTERS in DRYGALSKI, Deutsche Südpolar Exped. 10 Zool. 4 (298).

*Perrottetia* subgen. n. of *Odontartemon* KOBELT in MARTINI & CHEMNITZ, Conchylien-Cabinet, 1 (108).

*Phrixgnathus serratocostata* sp. n. Waituku, N.Z., WEBSTER, Wellington, Trans. N. Zeal. Inst. 38 (311).

*Physa teladiensis* (485), *dautzenbergi* (486) spp. n. Central Africa; *P. dunkeri* (486) n. n. for *P. scalaris* Dunker, GERMAIN, Bul. Muséum, Paris 11.

†*Physa miqueli* sp. n. Tertiary, France, CAZIOT, Béziers, Bull. Soc. étud. sci. nat. 27 (20).

*Planispira cingarus* sp. n. Hahna-hera, FULTON, Ann. Mag. Nat. Hist., London 17 (247).

*Planorbis*, notes on spp., ANCEY, J. Conchyliol. 53 (320-1).—*P. carus filocinctus* spp. n. S.W. United States, PILSBRY & FERRISS, Philadelphia, Pa., Proc. Acad. Nat. Sci. 58.—*P. sagoensis* sp. n. Sumatra, BULLEN, London, Proc. Malac. Soc. 7 (129).—*P. corneus*, breeding, SOFFEL, Zool. Beob. 47 (84-5); ZIEGELER, Wochenschr. Aquarienkunde (296-7).—*P. corneus*, supposed albinism, ZIEGELER, Bl. Aquarienkunde 17 (70); KÖHLER, Bl. Aquarienkunde 17 (216-7, 230-1); ROTH, Bl. Aquarienkunde 17 (N-9720 r)

(358-60, 367-70).—*P. corneus*, an amphibian, HOLZFUSS, Natur u. Haus, 14 (234-6).

†*Planorbis florissantensis* sp. n. Tertiary, Colorado, COCKERELL, Nautilus 19 (100-1, 120).—*P. londonensis* n. n. Paris Basin, DOLLFUS, Bull. Carte géol. France 16 (23).—*P. (Gyraulus) keideli* (381), *karkaraensis* (383) spp. n. Tertiary, Central Asia and China, SCHLOSSER, Budapest, Ann. Mus. Nat. Hung. 4.

*Plectotropis* v. *Eulota*.

*Pleurodonta (Caracolis) manifesta* sp. n. (?) Cuba, FULTON, Ann. Mag. Nat. Hist., London 17 (247).

†*Pocillozonites nelsoni* var. n. *eonoides*, *reinianns* var. n. *antiquus* Bermudas, VERRILL, New Haven, Conn., Trans. Acad. Arts Sci. 12.

*Polygyra multilineata* subsp. n. *algonquinensis*, NASON, Nautilus 19 (141-2).—*P. texasiana* subsp. n. *hyperolia* S.W. United States, PILSBRY & FERRISS, Philadelphia, Pa., Proc. Acad. Nat. Sci. 58.

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*Pseudopartula*, referred to *Zonitidae*, PILSBRY, Nautilus 20 (47).

*Ptychodonta* subgen. n. of *Coelocentrum* BARTSCH, Washington, D.C.; Smithsonian Inst., U. S. Nation. Mus. Proc. 31.

†*Ptychogyra* gen. n. for *P. eamelifera* sp. n. Cretaceous, Germany, HARNBOK, Berlin, Abh. Geol. Landesanst. 45.

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*Testacella esserana* sp. n. Aragon, FAGOT, Zaragoza, Bol. Soc. Arag. 5 (171).

†*Testacella martiniana* sp. n. Post Tertiary, Alpes Maritimes, MAURY & CAZIOT, Paris, Bul. Soc. geol. 5 (598).

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*Cadulus campylus* sp. n., Gulf of Oman, MELVILL, London, Proc. Malac. Soc. 7 (80).—*C. (Dischides) ovalis* (66), (*Polyschides*) *hexaschistus* (67-8), *magnus* (68), *longilobatus* (68-9), (*Gadila*) *virginalis* (72-3), *pseudolivi* (73), *zonatus* (74), *pulcherrimus* (74-5), *abrupto-inflatus* (75) spp. n. Indo-Pacific, BOISSEVAIN, Res. explor. Siboga 54.

*Dentalium minus* (14), *intercostatum* (14), *tubiforme* (19-20), *oryx* (20), *leucoryx* (20-1), *macandrewi* (25-7), *sinuosum* (28), *paucicostatum* (28-9), *pluricostatum* (30), *transversostriatum* (32), *malayanum* (32-3), *sedecimcostatum* (33), *compressiusculum* (33-4), *martensi* (34), (*Fissidentalium*) *sibogae* (39), (*Tesseracme*) *tetrapleurum* (41-2), (*Episiphon*) *carneum* (48), (*Bathoxiphus*) *tricarinatum* (48-9), (*Gadilina*) *stapes* (50-1), *pachypleurum* (51), *truncatum* (51), (*Laeidentalium*) *banale* (55), (*Plagioglypta*) *semitracheatum* (56), *tracheatum* (56-7) spp. n. Indo-Pacific; *D. aprinum* Liu. var. n. *incolor* (10), (*Antalis*) *entalis*, Lin. var. n. *indium* (44); *D. michelottii*, Hoernes, supposed recent specimens from the Malay Archipelago (16), BOISSEVAIN, Res. explor. Siboga 54.—*D. serrulatum*, *cornubovius* (248), *subcurvatum* (251) spp. n. Bay of Bengal, SMITH, Ann. Mag. Nat. Hist., London 18.—*D. tarentinum*, Trematode parasites; *Cercaria dentalii*, sp. n. (170), PELSENER, 3.

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*Dischides* v. *Cadulus*.

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*Siphonodentalium australasiae* sp. n. Banda Sea, BOISSEVAIN, Res. explor. Siboga 54.

*Episiphon* v. *Dentalium*.

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†*Fustiaria* v. *Dentalium*.

*Gadila* v. *Cadulus*.

*Gadilina* v. *Dentalium*.

*Laevidentalium* v. *Dentalium*.  
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 clature of genera ; PETHŐ, Palaeontog-  
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*tellii* (178), Tertiary, Sardinia, UGOLINI,  
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 v. *Clessinella*.

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*Cardium edule*, Bau der Schale, OSTROUMOFF, Taschent, Izv. Turk. Otd. Russ. Geogr. Obšč. **4** (20-6).—*C. edule*, Trematode parasites; *Buccphalus haineanus*, Lac. Duth., PELSENER, **3** (176-7).—*C. edule*, parasite, NICOLL, Ann. Mag. Nat. Hist., London **17** (148).—*C. sheeti* sp. n. Mast Head Reef Q., HEDLEY, Sydney, N.S.W., Proc. Linn. Soc. **31** (476).—*C. (Acanthocardia) exochum* (838), *omanense* (838-9), (? *Fragum*) *centumviratum* (839-40) spp. n. Persian Gulf, G. of Oman, MELVILL & STANDEN, London, Proc. Zool.

Soc. **1906**.—*C. edule* L. var. n. *globulosa*, PALLARY, J. Conchyl. **54**.

†*Cardium aupsense, laticostulatum* spp. n. Lower Campanian, S.E. France, REPELIN, Marseille, Ann. Mus. **10** (63).—*C. braunei, tokyoensis* spp. n. Post Tertiary, Japan, TOKUNAGA, J. Coll. Sci. **21** (51).—*C. derbeuticum, karajmanicum* spp. n. Mäotisches Becken, ANDRUSSOW, St. Peterburg, Verh. Russ. mineral. Ges. **43** (289-451).—*C. griesbachi* (307) [=] *C. denticulatum* Griesb. sp. n. Cretaceous, Pondoland; *C. denticulatum* Bail. (306) redescribed and figd., Woods, Cape Town, Ann. S. Afric. Mus. **4**.—*C. quadricristatum* (290-1), *pseudoproductum* (292-5), *servicianum* (295-6) spp. n. Cretaceous, Hungary, PETIÖ, Palaeontographica **52**.—*C. (Jurassicardium subgen. n.) axonense* sp. n., Jurassic, France, COSSMANN, Paris, C.-R. assoc. franç. avanc. sci. **34** (294).—*C. (Trachycardium) mayer-eymari* sp. n. Paleocene, Egypt, OPPENHEIM, Palaeontographica **30** (211-2).

†*Cassianella stachei* sp. n. Permian, Carnia, GORTANI, Riv. Ital. Pal. **12** (101).

†*Ceratomya calliglypta* sp. n. Jurassic, France, COSSMANN, Paris, C.-R. assoc. franç. avanc. sci. **34** (285).

†*Cerconya*, Agass., *v. Anatina*.

†*Chama töröki* sp. n. - Cretaceous, Hungary, PETIÖ, Palaeontographica **52** (269-70).

†*Chione roberti* n. n. for *C. hallii*, Tate non Pritchard, PRITCHARD, Vict. Nat., Melbourne **23** (117).

*Chlamys natalensis* sp. n. South Africa, SMITH, Ann. Natal Govt. Mus. **1** (60).—*v. Pecten*.

†*Chlamys filubiensis* sp. n. Tertiary, Sardinia, UGOLINI, Paleontogr. Italica, Pisa **12** (160).

†*Circe carpathica* sp. n. Mesozoic Galicia, WISNIOWSKI, Bull. Intern. Acad. **1906** (247).

*Clessinella* subgen. n. of *Aetheria* for *C. staranyi* sp. n. Congo, WAAGEN, Wien, SitzBer. Ak. Wiss. **114** (153).

*Condylocardia orata* sp. n. Sydney, HEDLEY, Sydney, N.S.W., Proc. Linn. Soc. **30** (533).—*C. porrecta, trifoliata*

**spp. n.** Mast Head Reef, Q., HEDLEY, Sydney, N.S.W., Proc. Linn. Soc. **31** (475).

†*Conocardium taramelli* **sp. n.** Carboniferous, Carnian Alps, GORTANI, Boll. Soc. Geol. Ital. **24** (565).

†*Coralliochama g-boehmi* **sp. n.** Senonian, Cardenas, Mexico, BÖSE, Mexico, Bol. Inst. Geol. **24** (54).

*Corbicula*, notes on, GERMAIN, Bul. Museum, Paris **12** (577).—*C. cunningtoni* **sp. n.** Victoria Nyanza, SMITH, London, Proc. Zool. Soc. **1906** (186).—*C. laeovini* **sp. n.** Central Africa, GERMAIN, Bul. Museum, Paris **11** (488).

†*Corbicula erassicostata* **sp. n.** Lower Campanian, S.E. France, REPELIN, Marseille, Ann. Mus. **10** (64).

†*Corbis wanneri* **sp. n.** Cretaceous, Tripoli, KRUMBECK, Palaeontographica **53** (109–10).

*Corbula persica* (262), Persian Gulf, *andamanica* (263) Bay of Bengal **spp. n.**, SMITH, Ann. Mag. Nat. Hist., London **18**.—*C. subquadrata* **sp. n.** Persian Gulf, G. of Oman, MELVILL & STANDEN, London, Proc. Zool. Soc. **1906** (843).

†*Corbula exigua, equivalvis* **spp. n.** Lower Campanian, S.E. France, REPELIN Marseille, Ann. Mus. **10** (74–5).—*C. harpaeformis* (193–4), *mokattamensis* (195), *vetula* [Mayer-Eymar MS] (195–6), *lyonsi* (196–7), *pyramidarum* (197–8), *duglensis* (198), *chmeitensis* (198–9) **spp. n.** Tertiary, Egypt, OPPENHEIM, Palaeontographica **30**.—*C.* (s. str.) *silatensis* **sp. n.** Upper Cretaceous, Borneo, ICKE & MARTIN, Leiden, Samml. Geol. Reichsmus. **8** (121–3).—*C. (Cuneocorbula) alabamiensis* Lea, Tertiary, Panama, figd., JOUKOWSKY, Genève, Mem. Soc. Phys. **35** (173–4).

†*Crassatella quaasi* **sp. n.** Cretaceous, Tripoli, KRUMBECK, Palaeontographica **53** (106–7).—*C. slavonica* **sp. n.** Cretaceous, Hungary, PETHÖ, Palaeontographica **52** (267–9).—*C. macrodonta*, Sow. **var. n.** *obtusa*, Lower Campanian, S.E. France, REPELIN, Marseille, Ann. Mus. **10** (58).

*Crassatellistes omanensis* **sp. n.** Gulf of Oman, SMITH, Ann. Mag. Nat. Hist., London **18** (258).

*Crassatellites janus* **sp. n.** Mast Head Reef, Q., HEDLEY, Sydney, N.S.W. Proc.

Linn. Soc. **31** (474).—*C. trailli*, Hutton, is a *Mactropsis*, HUTTON, Wellington, Trans. Proc. N. Zealand Inst. **38** (65–6).

†*Crassatellites africanus* **sp. n.** Cretaceous, Pondoland, Woods, Cape Town, Ann. S. Afric. Mus. **4** (303).—*C. divisionis* **sp. n.** Cretaceous, England, Woods, London, Monogr. Paleont. Soc. **2** (128).

*Crenella adamsiana* **nom. n.** for *C. decussata*, A. Ad. non Montagu; *C. praececellens* **sp. n.** Persian Gulf and Arabian Sea, MELVILL & STANDEN, London, Proc. Zool. Soc. **1906** (801).—*C. persica* **sp. n.** Persian Gulf, SMITH, Ann. Mag. Nat. Hist. **18** (255).

*Cryptodon omanensis* **sp. n.** Gulf of Oman, SMITH, Ann. Mag. Nat. Hist., London **18** (257).

*Ctenodonta? bidorsata* **sp. n.**, RAYMOND, Pittsburgh, Pa., Ann. Carnegie Mus. **3**.—*C. subovata* **sp. n.** Silurian, N. Canada, WHITEAVES, Rep. Geol. Surv. Can. **14** (47F).

†*Ctenostreon*, ASCHER, Wien, Beitr. Pal. Geol. OestUng. **19** (135–72).

†*Cucullaea concentrica* **sp. n.** Lower Campanian, S.E. France, REPELIN, Marseille, Ann. Mus. **10** (55).—*C. elatmensis* (23), *subcancellata* (25) **spp. n.** Jura, Russia, BORISSJAK, St. Peterburg, Mem. Com. Geol., n.s. **19**.—*C. serivenori* **sp. n.** Mesozoic, Singapore, NEWTON, London, Geol. Mag. **3** (489).—*C. (Trigonoarea) szabói* **sp. n.** Cretaceous, Hungary, PETHÖ, Palaeontographica **52** (242–5).—*C. dalli* Ihering, *multieostata* Ihering, Patagonia figd., IHERING, Revist. Mus. La Plata **11** (235).

†*Cucullella, cultrata, ovata, tenuiarata*, figd., SIEMIRADZKI, Wien, Beitr. Pal. Geol. OestUng. **19** (239).

*Cuna flava* **sp. n.** Mast Head Reef, Q., HEDLEY, Sydney, N.S.W., Linn. Soc. **31** (474).

†*Cuneocorbula* v. *Corbula*.

*Cuneopsis* v. *Unio*.

*Cuspidaria acutecarinata* **sp. n.** Capo Verd Is., DAUTZENBERG & FISCHER, Monaco, Res. Camp. sci. **32** (95).—*C. trailli*, New Zealand, figd., HEDLEY, Wellington, Trans. Proc. N. Zealand Inst. **38** (73).

†*Cuspidaria brevisstrata* sp. n. Jurassic, France, COSSMANN, Paris, C.-R. Ass. franc. avanc. sci. **34** (289).

*Cyamioactra communis* sp. n. Sydney, HEDLEY, Sydney, N.S.W., Linn. Soc. **30** (540).

†*Cypricardella pandora* sp. n. Devonian, Germany, SCHMIDT, Berlin, Zs. D. Geol. Ges. **57** (556).

†*Cypricardia laevis* (Matheron) refigured, REPELIN, Marseille, Ann. Mus. **10** (66).

†*Cypricardinia subcuneata* sp. n. Glen Park Limestone, WELLER, St. Louis, Mo., Trans. Acad. Sci. **16** (435-71).

†*Cyprimeria haueri* (303-4), *elliptica* (304-5) spp. n. Cretaceous, Hungary, PETHÖ, Palaeontographica **52**.

†*Cyprina* (*Venilicardia*) *arcuata* sp. n. Cretaceous, Hungary, PETHÖ, Palaeontographica **52** (297-9).

†*Cyrena*, ASCHER, Wien, Beitr. Pal. Geol. OestUng. **19** (135-72).—*C. subglobosa* sp. n. Lower Campanian, S.E. France, REPELIN, Marseille, Ann. Mus. **10** (64).

†*Cyrtodonta scala* sp. n., RAYMOND, Pittsburgh, Pa., Ann. Carnegie Mus. **3**.

†*Cytherea aegyptiaca* (169-70), *conneza* (170-1), *productula* (171) spp. n. [Mayer-Eymar MS] Tertiary, Egypt, OPPENHEIM, Palaeontographica **30**.—*C. fonscolombi* sp. n. Lower Campanian, S.E. France, REPELIN, Marseille, Ann. Mus. **10** (70).—*C. kochi* sp. n. Cretaceous, Hungary, PETHÖ, Palaeontographica **52** (302-3).—*C. vasconium* sp. n. Tertiary, Biarritz, OPPENHEIM, Berlin, Zs. D. geol. Ges. **58** (80).

†*Dacrydium pelseneri* sp. n. New Zealand, HEDLEY, Wellington, Trans. Proc. N. Zealand Inst. **38** (72).

†*Dalliconcha*, White, note on the section, PETHÖ, Palaeontographica **52** (230).—v. *Gerulleia*.

†*Daonella*, Greek species, RENZ, N. Jahrb. Min. **1906**, I (27-40).

†*Deltopecten farleyensis* (29), *wingensis* (31), *obliquatus* (32) spp. n. Carboniferous, New South Wales, ETHERIDGE

& DUN, Mem. Geol. Surv. N. S. Wales, Pal. **5**.

†*Dicranodonta muirvilkensis* sp. n. Jurassic, Russia, BORISSJAK, St. Peterburg, Mem. Com. geol., n.s. **19** (32).

*Diplodon huapensis* sp. n. America. BARTSCH, Washington, D.C., Smithsonian Inst., U. S. Nation. Mus. Proc. **30**.

†*D. rothi* sp. n. Patagonia, IHERING, Revist. Mus. La Plata **11** (236-7).

†*Diplodonta balcomensis* n. n. for *D. subquadrata*, Tate non Carpenter. PRITCHARD, Vict. Nat., Melbourne **23** (117).

*Donax trunculus*, Trematode parasites; *Cercaria pectinata* Huet, (163-4), *Bucephalus haimeanus* Lac.-Duth. (176-7), PELESENER, **3**.—*D. trunculus* L., parasites, CAULLERY & CHAPPELLIER, Paris, C.-R. soc. biol. **60** (325-8).

†*Dosinia maecolica* sp. n. Mäotischer Becken, ANDRUSSOW, St. Peterburg, Verh. Russ. mineral. Ges. **43** (289-451).

†*Dreissensia dalli* sp. n. Tertiary, Panama, JOUKOWSKY, Genève, Mém. soc. Phys. **35** (171).

†*Edmondia podolica* sp. n. Palaeozoic. Podolia, SIEMIRADZKI, Wien, Beitr. Pal. Geol. OestUng. **19** (236).—*E. cf. anodonta* Kon., FRECH, Földt. Közl. **36**.

*Ensis macha* Mol., anatomy, BLOOMER, London, Proc. Malac. Soc. **7** (18).

†*Eriphylla* Gabb, notes on the section, PETHÖ, Palaeontographica **52** (257-8).—v. *Astarte*.

*Ervilia scaliola* Issel. discussed and figured, SMITH, Ann. Natal Govt. Mus. **1** (66).

†*Exogyra*, ASCHER, Wien, Beitr. Pal. Geol. OestUng. **19** (135-72).—*E. peroni* sp. n. Cretaceous, Tripoli, KRUMBECK, Palaeontographica **53** (101-2).

†*Fimbria scalaris* sp. n. Lower Campanian, S.E. France, REPELIN, Marseille, Ann. Mus. **10** (61).

†*Fistulana aegyptiaca* [Mayer-Eymar MS] sp. n. Lutetian, Egypt, OPPENHEIM, Palaeontographica **30** (204-5).

†*Flexopecten sardous* sp. n. Tertiary, Sardinia, UGOLINI, Paleontogr. Italica, Pisa **12** (180).

*Fragum v. Cardium*.

*Gaparium navigatum* sp. n. Mast Head Reef, Q. HEDLEY, Sydney, N.S.W., Proc. Linn. Soc. **31** (476).

†*Gari praeursor* (308-9), *diversisignata* (309-10) spp. n. Cretaceous, Hungary, PETHÖ, Palaeontographica **52**.

†*Gastrochaena zütteli* [Mayer-Eymar MS] sp. n. Lutetian, Egypt, OPPENHEIM, Palaeontographica **30** (204).

†*Gervilleia douvillei* sp. n. Mesozoic, Portugal, CHOFFAT, J. Conchylol. **54** (40).—*G. hanitschi* sp. n. Mesozoic, Singapore, NEWTON, London, Geol. Mag. **3** (470).—*G. incarsiana* sp. n. Permian, Carnia, GORTANI, Riv. Ital. Pal. **12** (112).—*G. (Dalliconcha) orientalis* sp. n. Cretaceous, Hungary, PETHÖ, Palaeontographica **52** (230-1).

†*Gervilleia* v. *Gervilleia*.

†*Gigantopecten variradiatus* sp. n. Tertiary, Sardinia, UGOLINI, Paleontogr. Italica, Pisa **12** (190).

*Glabaris*, notes, DALL, Nautilus **20** (39-40).

*Glycymeris capricornea, queenslandica* spp. n., Mast Head Reef Qld., HEDLEY, Sydney, N.S.W., Proc. Linn. Soc. **31** (468-9).—*G. -insignis* sp. n. Australia, PILSBRY, Philadelphia, Pa., Proc. Acad. Nat. Sci. **58** (213).

†*Goniomya scriveneri, singaporensis*, Mesozoic, Singapore, NEWTON, London, Geol. Mag. **3** (493).—*G. sp.*, Woods, Cape Town, Ann. S. Afric. Mus. **4** (310).

†*Grammysia denckmanni* sp. n. Devonian, Germany, SCHMIDT, Berlin, Zs. D. geol. Ges. **57** (558).—*G. podolica* sp. n. Palaeozoic, Podolia; *G. complanata* Sw., *cingulata* His, *rotundata* Sw. figd., SIEMIRADZKI, Wien, Beitr. Pal. Geol. OestUng. **19** (237).

*Grandidieria* v. *Unio*.

*Granicorium* gen. n. of Veneridae, type *G. indutum* sp. n. HEDLEY, Sydney, N.S.W., Proc. Linn. Soc. **31** (477).

†*Gryphaea ecrevitiana* (192-3), *semicoronata* (193-4) spp. n. Cretaceous, Hungary, PETHÖ, Palaeontographica **52**.

†*Halobia*, Greek species, RENZ, N. Jahrb. Min. **1906** I (27-40).

*Heteromacra* subgen. n. of *Macra* for *M. lamifera* sp. n. (q. v.), LAMY, Bul. Muséum, Paris **12** (45).

†*Hippurites* Lam., notes on the subgenus *Pironaca*, Meneghini, PETHÖ, Palaeontographica **52** (270-5).

†*Hoernesia piroudi* sp. n. Permian, Carnia, GORTANI, Riv. Ital. Pal. **12** (112).

*Hormomya* v. *Brachyodontes*.

†*Ilionia* (?) *parvula* sp. n. Paleozoic, Canada, WHITEAVES, Ottawa, Geol. Surv. Canada **3** (288).

†*Inacquipecten* (192) gen. n. for *Pecten tournali* Serr., &c; *I. lovisatoi* (197), *arborescens* (198) spp. n. Tertiary, Sardinia, UGOLINI, Paleontogr. Italica **12**.

†*Inoceramus felixi* nom. n. for *I. lamarchi* Park. (pro parte), PETRASCHECK, Wien, Jahrb. Geol. RchsAnst. **54**.—*I. mülleri* sp. n., PETRASCHECK, Wien, Jahrb. Geol. RchsAnst. **56** (155-68).—*I. robustus, cracoviensis* spp. n. Senonian, Bonarka, SMOLENSKI, Krakow, Bull. Intern. Acad. **1906** (717).—*I. zütteli* sp. n., PETRASCHECK, Wien, Jahrb. Geol. RchsAnst. **56**.—*I. expansus* Bail. re-described, Woods, Cape Town, Ann. S. Afric. Mus. **4** (299).

†*Iouannetia semicaudata* Desm., Beschreibung, VADÁSZ, Földt. Közl. **36**.

*Isocardia*, BÜLOW, Frankfurt a. M., NachrBl. D. malakozool. Ges. **38**.

†*Isocardia rotunda* sp. n. Lower Campanian, S. E. France, REPELIN, Marseille, Ann. Mus. **10** (65).—*I. cliffwoodensis* sp. n. Cretaceous, New Jersey, WELLER, Chicago, J. Geol. **13** (326).

†*Iouannetia* v. *Ionannetia*.

*Joufa*, notes on, SNETHLAGE.

*Jousseannia* gen. n.; *J. heterocyathis, heteropsammiae* spp. n. Ceylon, commensal with *Heterocyathus* and *Heteropsammia*, BOURNE, Ceylon Pearl Oyster Fish. Rep. **5** (245).

†*Jurassicardium* subgen. n. of *Cardium* for *C. axonense* sp. n., COSSMANN, Paris, C.-R. ass. franc. avanc. Sci. **34** (294).

*Kellia leucedra, revimentalis* spp. n. Persian Gulf and Arabian Sea, MELVILL & STANDEN, London, Proc. Zool. Soc. **1906** (817).

*Kellyia australis* sp. n. S. Orkneys, LAMY, Bul. Mus., Paris 12 (124).

†*Lasaea striata* sp. n. Post Tertiary, Japan, TOKUNAGA, J. Coll. Sci. 21 (53).

*Leda fastidiosa*, New Zealand, figd. HEDLEY, Wellington, Trans. Proc. N. Zealand Inst. 38 (70-1).

†*Leda*, ASOHER, Wien, Beitr. Pal. Geol. OestUng. 19 (135-72).—*L. clementiae* sp. n. Lower Campanian, S. E. France, REPELIN, Marseille, Ann. Mus. 10 (56).—*L. navicula* sp. n. Cretaceous, Germany, HARBORT, Berlin, Abh. Geol. Landesanst. 45 (55).

†*Leptodesma transversa* sp. n. Devonian, Germany; SCHMIDT, Berlin, Zs. D. geol. Ges. 57 (553).

†*Leptodomus podolicus* sp. n. Palaeozoic, Podolia, SIEMIRADZKI, Wien, Beitr. Pal. Geol. OestUng. 19 (236).

†*Liebea dieneri* sp. n. Permian, Carnia, GORTANI, Riv. Ital. Pal. 12 (113).

*Lima*; mouth normally duplicated, PELSENER, 2.—*L. murrayi*, Smith = *Limea acclinis* Hedley, HEDLEY & PETTARD, Sydney, N.S.W., Rec. Austr. Mus. 6 (223).

†*Lima cardenasensis, azteca* spp. n. Senonian, Cardenas, Mexico, BÖSE, Mexico, Bol. Inst. Geol. 24 (35-6).—*L. costicollata* sp. n. Cretaceous, Bohemia, PETRASCHIEK Wien, Jahrb. geol. RchsAnst. 55 (433).—*L. cureti* (48), *crassicosta* (48-9) spp. n. Lower Campanian, S. E. France, REPELIN, Marseille, Ann. Mus. 10.—*L. hakodetensis* sp. n. Post Tertiary, Japan, TOKUNAGA, Tokyo, J. Coll. Sci. 21 (64).—*L. planicosta* sp. n. Cretaceous, Germany, HARBORT, Berlin, Abh. Geol. Landesanst. 45 (42).—*L. (Radula) szilyana* (200-1), *selectissima* (201-2), *brusinae* (202) spp. n. Cretaceous, Hungary, PETHÖ, Palaeontographica 52.

*Limaea juglandula* sp. n. Persian Gulf and Arabian Sea, MELVILL & STANDEN, London, Proc. Zool. Soc. 1906 (812).—v. *Limea*.

*Limatula hyperborea* sp. n. E. Greenland, Spitzbergen and Kara Sea, JENSEN, Kjöbenhavn, Medd. Grönl. 29 (329-30).

*Limea murrayi*, Smith transferred from *Lima* and = *Limea acclinis*

Hedley, HEDLEY & PETTARD, Sydney, N.S.W., Rec. Austr. Mus. 6 (223).—v. *Limaea*.

*Limopsis erectus* sp. n. off Sydney, 300 fath., HEDLEY & PETTARD, Sydney, N.S.W., Rec. Austr. Mus. 6 (224).

†*Limopsis aquilari* sp. n. Tertiary, Mexico, BÖSE, Mexico, Bol. Inst. Geol. 22 (53).—*L. nummiformis* (248-9), *vilmae* (249-50) spp. n. Cretaceous, Hungary, PETHÖ, Palaeontographica 52.

†*Liopiatha (Psilomya) corrugata* sp. n. Cretaceous, Pondoland, Woods, Cape Town, Ann. S. Afric. Mus. 4, (309).

†*Lithiotis* belongs to Ostracidae, BOEHM, Centralbl. Min., Stuttgart 1906 (161, 458); REIS, T.c. (209).

*Lithodomus townsendi* sp. n. Persian Gulf and G. of Oman, MELVILL & STANDEN, London, Proc. Zool. Soc. 1906 (802).

†*Lithodomus donezianus, mixtus* spp. n. Jura, Russlands, BORISSJAK, Mémoires géol. 29 (1-22, 23-35).—*L.* spp., VADASZ, Földt. Közl. 36.

*Lucina pamela* sp. n. Persian Gulf and Arabian Sea, MELVILL & STANDEN, London, Proc. Zool. Soc. 1906 (815).

†*Lucina*, ASOHER, Wien, Beitr. Pal. Geol. OestUng. 19 (135-72).—*L. fimbriata* sp. n. Lower Campanian, S. E. France, REPELIN, Marseille, Ann. Mus. 10 (61).—*L. pironai* sp. n. Cretaceous, Balkans, OPPENHEIM, Berlin, Zs. D. geol. Ges. 58 (127).—*L. proboscidea* sp. n. Cretaceous, Hungary, PETHÖ, Palaeontographica 52 (289).

*Lucinoma* v. *Phacoides*.

†*Lutraria ovalis* sp. n. Post Tertiary, Japan, TOKUNAGA, Tokyo, J. Coll. Sci. 21 (41).

†*Machomya applanata* sp. n. Jurassic, France, COSSMANN, Paris, C.-R. ass. franc. avanc. sci. 34 (286).

†*Lyropecten* v. *Pecten*.

*Macoma* v. *Tellina*.—*M. blairensis* sp. n. Bay of Bengal, SMITH, Ann. Mag. Nat. Hist., London 18 (259).—*M. syndesmyoides* sp. n. Persian Gulf and G. of Oman, MELVILL & STANDEN, London, Proc. Zool. Soc. 1906 (824).

†*Macoma rosariana* sp. n. Tertiary, Philippines, SMITH, Philippine J. Sci. 1 (630).

*Macrocallista roseotincta* SMITH (new to Australia) Mast Head Reef, Q., HEDLEY, Sydney, N.S.W., Proc. Linn. Soc. 31 (478).

†*Macrodon sulcatus* sp. n. Glen Park Limestone, WELLER, St. Louis, Mo., Trans. Acad. Sci. 16 (435-71).—*M. vereskinense* (1), *lutugini* (5), *jakovlevi*, *michalakii* (9), *leskevitschi* (11), *clatmense* (12), *koralevkense* (14) spp. n. Jurassic, Russia, BORISSJAK, St. Petersburg, Mem. Com. geol., N.S. 19.

*Maetra* subgen. n. v. *Avimaetra*.—*M. solida*, *subtruncata*, Trematode parasites, *Bucephalus haimeanus* Lac.-Duth. (116-7), PELSENER, 3.

†*Maetra gabrieli* sp. n. Lower Campanian, S.E. France, REPELIN, Marseille, Ann. Mus. 10 (74).—*M. imago*, *schirvanica* spp. n. Mäotisches Becken, ANDRUSSOW, St. Petersburg, Verh. Russ. mineral. Ges. 43 (289-451).—*M. (Heleromaetra) subgen. n. laminiifera* sp. n. Antarctic, LAMY, Bul. Mus. Paris, 12 (45).

*Mactropsis trailli* (Hutt.), characters, HUTTON, Wellington, Trans. N. Zealand Inst. 38 (65-6).

*Malletia brevis* sp. n. Bay of Bengal, SMITH, Ann. Mag. Nat. Hist., London 18 (252).

*Margaritifera*, Cestode parasite, SEURAT, Paris, C.-R. Acad. Sci. (801-803)—*M. panasesae*, life-history, ALLEN.

*Meleagrina*, Tuamotu and Gambier Is., growth and pearl production, SEURAT, 1, 2, 3.

†*Meretrix umzambiensis*, *euglypha* spp. n. Cretaceous, Pondoland, Woods, Cape Town, Ann. S. Afric. Mus. 4 (304-5).

*Mesodesma (Paphia) bahremense* sp. n. Persian Gulf, MELVILL & STANDEN, London, Proc. Zool. Soc. 1906 (827).

†*Modiola internata*, *tschernyschevi*, *trigonalis* spp. n. Jura Russlands, BORISSJAK, St. Petersburg, Mém. Com. géol. 29 (1-22, 23-35).—*M. jurassica* sp. n. Jurassic, North America, WHITFIELD & HOVEY, New York, Bull. Amer. Mus.

Nat. Hist. 22.—*M. kaffraria* sp. n. Cretaceous, Pondoland, Woods, Cape Town, Ann. S. Afric. Mus. 4 (294).—*M. missouriensis* sp. n. Glen Park Limestone, WELLER, St. Louis, Mo., Trans. Acad. Sci. 16 (435-71).—*M. rionegrensis* sp. n. Upper Cretaceous, Patagonia, IHERING, Revisit. Mus. La Plata 11 (235).—*M. (Brachydontes) striatissima* sp. n. Lower Campanian, S.E. France, REPELIN, Marseille, Ann. Mus. 10 (53).

†*Modiolarca jurassica* sp. n. Jurassic, N. America, WHITFIELD & HOVEY, New York, Bull. Amer. Mus. Nat. Hist. 22.

*Modiolaria calcata* sp. n. Persian Gulf, MELVILL & STANDEN, London, Proc. Zool. Soc. 1906 (801-2).—*M. perstriata* sp. n. Masthead Reef, Q., HEDLEY, Sydney, N.S.W., Proc. Linn. Soc. 31 (472).

†*Modiolopsis podolica* sp. n. Palaeozoic, Poland, SIEMIRADZKI, Wien, Beitr. Pal. Geol. OestUng. 19 (241).

†*Modiomorpha lamellosa* sp. n. Glen Park Limestone, WELLER, St. Louis, Mo., Trans. Acad. Sci. 16 (455-71).—*M. pallida* sp. n. Devonian, Germany, SCHMIDT, Berlin, Zs. D. geol. Ges. 57 (556).

*Mora* v. *Tellina*.

*Montacuta obliquans* sp. n. Persian Gulf and G. of Oman, MELVILL & STANDEN, London, Proc. Zool. Soc. 1906 (817).

*Montaguia charcoti* (46), *turqueti* (47) spp. n. Antarctic, LAMY, Bul. Mus. Paris, 12.

*Mutela angustata* Sow. var. n. *ponderosa*, GERMAIN, Bul. Mus. Paris, 12 (56).

†*Myalina letmathensis* sp. n. Devonian, Germany, SCHMIDT, Berlin, Zs. D. Geol. Ges. 57 (555).—*M. ampliata* Ryckt. var. n. *pannonica*, FRECH, Földt. Közl., 36.

†*Myoconcha* ASCHER, Wien, Beitr. Pal. Geol. OestUng. 19 (135-72).

*Myodora pulleinci* sp. n. Mast Head Reef, Q., HEDLEY, Sydney, N.S.W., Proc. Linn. Soc. 31 (473).

†*Myophoria carnica* sp. n. Permian, Carnia, GORTANI, Riv. Ital. Pal. 12 (116).

†*Myophoriopsis* (?) *carbonifera* sp. n. Carboniferous, Carnian Alps, GORTANI, Boll. Soc. Geol. Ital. 24 (563).

†*Mysia pacifica* sp. n. Post Tertiary, Japan, TOKUNAGA, J. Coll. Sci. 21 (53).

†*Mytilarca pernoides* sp. n. Silurian, N. Canada, WHITEAVES, Rep. Geol. Surv. Can. 14 (47 F).

*Mytilus*, spermatozoa, KUPELWIESER.—Parasitic *Nematopsis*, LÉGER, Paris, Bull. ass. franç. avanc. sci. 1905 (331).—*M. edulis*, parasite, NICOLL, Ann. Mag. Nat. Hist. London 17 (148).—*M. edulis*, L., Vorkommen in grossen Tiefen des Weissen Meeres, KNIPOWITSCH, St. Petersburg, Verh. Russ. mineral. Ges. 43 (271-7).

†*Neæra granum* (Matheron MS.) sp. n. Lower Campanian, S.E. France, REPELIN, Marseille, Ann. Mus. 10 (75).—*N. osiridis* sp. n. Latetian, Egypt, OPPENHEIM, Palaeontographica 30 (199).

†*Neithea* Drouet, notes on the genus (213-22); *N. böckhi* (244-7), *almusana* (227-8) spp. n. Cretaceous, Hungary, PETŦÓ, Palaeontographica 52.—v. *Pecten*.

†*Nemodon natalensis*, Bail. re-described and figured, Woods, Cape Town, Ann. S. Afric. Mus. 4 (289).

*Neolepton antipodum*, New Zealand, figd., HEDLEY, Wellington, Trans. Proc. N. Zealand Inst. 38 (74).

*Nephronias flucki* sp. n. America, BARTSCH, Washington, D.C., Smithsonian Inst., U. S. Nation. Mus. Proc. 30 (393-5).

*Nodularia douglasiae* subsp. n. *taiwanica*, Formosa, PILSBRY, Philadelphia, Pa., Proc. Acad. Nat. Sci. 57 (750).

•*Nucula consentanea* sp. n. Persian Gulf and Arabian Sea, MELVILL & STANDEN, London, Proc. Zool. Soc. 1906 (791).—*N. (Acila) granulata* sp. n. Bay of Bengal, SMITH, Ann. Mag. Nat. Hist., London 18 (251).

†*Nucula*, ASCHER, Wien, Beitr. Pal. Geol. OestUng. 19 (135-72).—*N. glenparkensis*, *diversoides* spp. n. Glen Park Limestone, WELLER, St. Louis, Mo., Trans. Acad. Sci. 16 (435-71).—*N. michalskii* sp. n. Tertiary, Russia, SOKOLOV, St. Petersburg, Mem. Com. geol., n. s. 18 (5).—*N. subcancellata*

sp. n. Cretaceous, Germany, HARBORT, Berlin, Abh. Geol. Landesanst. 45 (54).

†*Nuculana* sp., Woods, Cape Town, Ann. S. Afric. Mus. 4 (287).

†*Nuculites barretti* sp. n. Palaeozoic, New York, SHUMER, Albany, N.Y., St. Educ. Dept., Mus. Bull. 80 (173-269).—*N. lunulata* sp. n. Paleozoic, South Africa, SCHWARTZ, Grahamstown, Rec. Albany Mus. 1 (379).

†*Opis haldonensis* sp. n. Cretaceous, England, Woods, London, Monogr. Paleont. Soc. 2 (119).

†*Orthonota impressa, solenoides*, figd., SIEMIRADZKI, Wien, Beitr. Pal. Geol. OestUng. 19.

*Ostrea*, oyster beds invaded by an Algal, FABRE-DOMERGUE, Paris, C.-R. Acad. sci. 142 (1223-5).—Sur le gisement huître naturel de la Macta (Algérie) et le régime d'écoulement de cette rivière, BOUNHOL, Paris, C.-R. Acad. sci. 142 (593-5).

†*Ostrea lingula, provincialis* spp. n. Lower Campanian, S.E. France, REPELIN, Marseille, Ann. Mus. 10 (46-7).—*O. irregularis* sp. n. Post Tertiary, Japan, TOKUNAGA, Tokyo, J. Coll. Sci. 21 (68).—*O. haitensis* Sow., Tertiary, Panama, figd., JOUKOWSKY, Genève, Mém. Soc. Phys. 35 (170).—*O. (Alectryonia) semiarmata, aquilerae* spp. n. Senonian, Cardenas, Mexico, BÖSE, Mexico, Bol. Inst. geol. 24 (44-9).—*O. (A.) subarcotensis* sp. n. Cretaceous, Hungary, PETŦÓ, Palaeontographica 52 (186-8).

†*Oxytoma*, ASCHER, Wien, Beitr. Pal. Geol. OestUng. 19 (135-72).

†*Palaeanodonta ernae* (52), *sophiae* (53), *faba* (54) spp. n. Permian, Bohemia, SCHMIDT, N. Jahrb. Min. 1905, I.

†*Palaeoneilo boyesi* (377), *arcuata* (378) spp. n. Paleozoic, South Africa, SCHWARTZ, Grahamstown, Rec. Albany Mus. 1.

†*Panopaea mermera* sp. n. Cretaceous, Hungary, PETŦÓ, Palaeontographica 52 (310-1).

*Paphia* v. *Mesodesma*.

†*Parallelipipedum* v. *Area*.

†*Patinopecten* v. *Pecten*.



*Pecten*, locomotion and mode of life, ANTHONY.—Swimming mechanism, VLÈS, Paris, C.-R. Acad. sci. **143** (611-3).—*P. jacobaeus*, histology of heart, KOZIŃSKI, Kraków, Rozpr. Akad. **46** B (55-64).—*P. eous* (808), *thyrideus* (809), (*Vola dorotheae* (810) **spp. n.** Persian Gulf and Arabian Sea, MELVILL & STANDEN, London, Proc. Zool. Soc. **1906**.—*P. (Chlamys) tamsi* (243) Venezuela, (*C. nympha* (246) Caribbean Sea? **spp. n.**, BAVAY, J. Conchyliol., Paris **53**.—*P. (C.) havatus* var. **n. albidus**, (*Pseudamussium*) *randolphi* var. **n. tillamookensis**, California, ARNOLD, Washington D.C., U. S. Geol. Surv. Prof. Pap. **47**.—*P. opercularis*, note with varr. **n.**, MONTEROSATO, Naturalista Sicil., Palermo **18** (145).—*P. opercularis* var. **n. perdis**, BAVAY, J. Conchyliol., Paris **53** (245).—*P. tchuelchus* d'Orbigny varr. **n.**, BAVAY, J. Conchyliol. **54** (9).—*P. jacobaeus* Lin., var. *keppeliana* Sby., figd., DAUTZENBERG & FISCHER, Monaco, Res. camp. sci. **32** (72).

†*Pecten*, ASCHER, Wien, Beitr. Pal. Geol. OestUng. **19** (135-72).—*P. bellerophontis* (108), *pseudocaenus* (109), *salinchiati* (110) **spp. n.** Permian, Carnia, GORTANI, Riv. Ital. Pal. **12**.—*P. krenneri* (206-7), *vertebratus* (207-8), (*Chlamys*) *szécmensis* (208-10) **spp. n.** Cretaceous, Hungary, PETŰ, Palaeontographica **52**.—*P. radkiewiczzi* **spp. n.** Tertiary, Russia, SOKOLOV, St. Peterburg, Mem. Com. geol., n. s. **18** (41).—*P. santarosanus* (23), *aztecus* (72) **spp. n.** Tertiary, Mexico, BÖSE, Mexico, Bol. Inst. Geol. **22**.—*P. tokyoensis* (65), *pulehellimus* (67) **spp. n.** Post Tertiary, Japan, TOKUNAGA, Tokyo, J. Coll. Sci. **21**.—*P. (Chlamys) calkinsi*, *landesi*, *proavus* **spp. n.** Eocene, California; *P. sanctae-cruzensis*, (*Chlamys*) *brammeri*, (*Propeamussium*) *clallamensis*, *vaylandi* **spp. n.** Oligocene, California; *P. carrizoensis*, *keppi*, (*Patinopecten*) *oweni*, (*Chlamys*) *hamlini*, *nutleri*, *sescpensis*, (*Lyropecten*) *boicersi*, *migueleusis*, *perrini*, *vaughani*, (*Plagiopectenium*) *andersoni*, *eldridgei*, *uehensis*, (*Pseudamussium*) *lompioensis*, (*Propeamussium*) *stanfordensis*, (*Amussium*) *lompioensis* **spp. n.** Miocene, California; *P. auburyi*, *coalingensis*, *lecontei*, *nerriami*, *vogdesi*, (*Patinopecten*) *healeyi*, *purismaensis*, *turneri*, (*Chlamys*) *bartsehi*, *bellilamellatus*, *lawsoni*, *washburnei*, *watsi*, (*Lyropecten*) *ashleyi*, (*Plagiopectenium*) *cooperi*, (*Pro-*

*peamussium*) *riveri* **spp. n.** Pliocene, California; and varr. **n.**, ARNOLD, Washington D.C., U. S. Geol. Surv. Prof. Papr. **47**.—*P. sp.*, Tertiary, Panama, figd., JOUKOVSKY, Genève, Mém. Soc. Phys. **35** (172-3).—*P. spp.*, Obermediterrän, VÁDÁSZ, Földt. Közl., **36**.—*P. (Aequipeten)* *deecmestatus* Münster., *peratus* Woods, figd., PETRASCHKEK, Wien, Jahrb. geol. Rechs. Anst. **55** (429-31).—*P. (Camptonectes)* *kalkovskyyi* **spp. n.** Cretaceous, Bohemia, PETRASCHKEK, Wien, Jahrb. geol. Rechs. Anst. **55** (431).—*P. (Chlamys)* *capensis*, (*Aequipeten*) *kossmati* **spp. n.** (296-7) Cretaceous, Pondoland; *P. (Chlamys)* *amapondensis* Griesb. re-described and figured (295); *P. (Camptonectes)* *sp.* (297); *P. (Neithea)* *quinquecostatus* Sowerb. (298), Woods, Cape Town, Ann. S. Afric. Mus. **4**.

*Pectenulus*, mode of locomotion, VLÈS, Paris, Bull. Soc. Zool. **28** (114-7).—*P. heroicus* **spp. n.** Persian Gulf, MELVILL & STANDEN, London, Proc. Zool. Soc. **1906** (708).—*P. formosus*, Rve. var. **n. tumida**, Fogo, Capo Verd Is., DAUTZENBERG & FISCHER, Res. Camp. sci. **32** (77-8).

†*Pectenulus hungaricus* **spp. n.** Cretaceous, Hungary, PETŰ, Palaeontographica **52** (245-6).—*P. williamsi* **spp. n.** Tertiary, Russia, SOKOLOV, St. Peterburg, Mem. Com. geol., n. s. **18** (13).—*P. africanus* Griesb. re-described and figured, Woods, Cape Town, Ann. S. Afric. Mus. **4** (291).

†*Perna Čerevičiana* **spp. n.** Cretaceous, Hungary, PETŰ, Palaeontographica **52** (234-5).

*Petricola pholadiiformis* at Dunkerque, LESDAIN.

†*Petricola hippuritarum* **spp. n.** Cretaceous, Hungary, PETŰ, Palaeontographica **52** (229).

*Phacoides (Lucinoma) vestita* **spp. n.** Maio, Cape Verd Is., DAUTZENBERG & FISCHER, Monaco, Res. Camp. sci. **32** (90-1).

†*Phacoides pennsylvanicus* var. **n. somersensis**, Bermudas, VERRILL, New Haven, Conn., Trans. Acad. Arts Sci. **12**.

*Philobrya wandelensis* **spp. n.** Antarctic, LAMY, Bul. Mus., Paris **12** (50).—*P.*

*parallelogramma* sp. n. Sydney, HEDLEY, Sydney, N.S.W., Proc. Linn. Soc. **30** (544).—*P. scabra*, *recapitula* spp. n. Mast Head Reef, Q., HEDLEY, Sydney, N.S.W., Proc. Linn. Soc. **31** (470-1).

†*Pholadomya aegyptiaca* (185), *tricostata* (186), (?) *scuilis* [Mayer-Eymar MS.] (185-6) spp. n. Tertiary, Egypt, OPPENHEIM, Palaeontographica **30**.—*P. obscura* sp. n. Jurassic, N. America, WHITFIELD & HOVEY, New York, Bull. Amer. Mus. Nat. Hist. **22**.

*Pholas candida*, Trematode parasites, *Cercaria pectinata* Huet (163-4), PELSENER, **3**.

†*Pholas nanus* sp. n., ASCHER, Wien, Beitr. Pal. Geol. OestUng. **19** (135-72).—*P. pseudoustjurtensis*, *serinium* spp. n. Miocene, Novotcherkassk, BOGATCHEW, St. Peterburg, Bull. Com. géol. **24** (159).

*Pinna natalensis* sp. n. S. Africa SMITH, Ann. Natal Govt. Mus. **1** (60).

†*Pinna jurassica* sp. n. Jurassic, N. America, WHITFIELD & HOVEY, New York, Bull. Amer. Mus. Nat. Hist. **22**.—*P. varicosta* sp. n. Cretaceous, Germany, HARBORT, Berlin, Abh. Geol. Landesand. **45** (45).

†*Pironaea* Meneghini v. *Hippurites*.

*Pisidium minusculum*, *fragillimum*, *levissimum*, *subrotundum*, *friersoni* spp. n. United States, STERKI, Nautilus **20** (17-20).—*P. neglectum* sp. n., STERKI, Nautilus **20** (87-9).—*P. planatum* sp. n. Madagascar, ANCEY, Nautilus **20** (46).—*P. proximum* sp. n. United States, STERKI, Nautilus **20** (5-6).—*P. abditum* subsp. n. *huachucanum* S. W. United States, PILSBRY & FERRISS, Philadelphia, Pa., Proc. Acad. Nat. Sci. **58**.—*P. variabile* varr. n. *brevius*, *hybridum*; *P. noveboracense* varr. n. *expansum*, *elevatum*, *quadrilum*, *lineatum*, *fraternum*, *alabamense*, STERKI, Nautilus **19** (118-20).

*Placuna*, adductor muscle, etc., ANTHONY, Paris, Bull. Ass. franç. avanc. sci. **1905** (334).—*P. placenta*, pearl fishery, HORNELL, Repts. Ceylon Mar. Biol. Lab. **1** (41-54).

†*Plagiocentrum* v. *Pecten*.

†*Pleuromya?* *concentrica* sp. n. Jurassic, N. America, WHITFIELD & HOVEY, New York, Bull. Amer. Mus. Nat. Hist. **22**.

*Pliodon (Cameronia) hardeleti* (57), *tchadiensis* (60) spp. n. Lake Tchad, GERMAIN, Bul. Mus. Paris, **11**.

*Poroleda lanceolata*, New Zealand, figd., HEDLEY, Wellington Trans. Proc. N. Zealand Inst. **38** (71).

*Poromya undosa* sp. n. off Sydney, 300 fath., HEDLEY & PETERD, Sydney, N.S.W., Rec. Austr. Mus. **6** (224).

†*Praeconia*, note on, COLLOT, Feuille jeunes natural., Paris **36** (25).

†*Propeamussium* v. *Pecten*.

†*Protocardia hillana* Sow. var., Woods, Cape Town, Ann. S. Afric. Mus. **4** (307).

†*Psammobia producta* sp. n. [Mayer-Eymar, MS.] Tertiary, Egypt, OPPENHEIM, Palaeontographica **30** (181-2).

*Pseudamussium* v. *Pecten*.

†*Pseudomonotis forojuliensis* (104), *irregularis* (105) spp. n. Permian, Carnia, GORTANI, Riv. Ital. Pal. **12**.

†*Psilomya* v. *Liopistha*.

†*Pterinea occidentalis* sp. n. Palaeozoic, Canada, WHITEAVES, Ottawa, Geol. Surv. Canada **3** (287).—*P. opportuna* Barr. (241), *ventricosa* Gdf. (240) figd., SIEMIRADZKI, Wien, Beitr. Pal. Geol. Oest.-Ung. **19**.

†*Pteropsis* (?) *bullata* sp. n. Tertiary, Philippines, SMITH, Philippine J. Sci. **1** (629).

†*Ptychomya elegans* sp. n. Cretaceous, Germany, HARBORT, Berlin, Abh. Geol. Landesanst. **45** (76).

†*Quenstedtia planulata* sp. n. Jurassic, N. America, WHITFIELD & HOVEY, New York, Bull. Amer. Mus. Nat. Hist. **22**.

†*Radiolites*, classification, TOUCAS, Paris, Bul. Soc. géol. **5** (523).

†*Radula* v. *Lina*.

†*Sanguinolites niger* (304), *acer* (305) spp. n. Devonian, S. Africa, REED, London, Geol. Mag. **3**.

*Scapharca* v. *Arca*.

*Scintilla pulchra* sp. n. Persian Gulf and G. of Oman, MELVILL & STANDEN, London, Proc. Zool. Soc. **1906** (818).

†*Semele* (?) *dalli* sp. n. Tertiary, Philippines, SMITH, Philippine J. Sci. **1**, (630).

†*Septifer sturgisensis* sp. n. Jurassic, N. America, WHITFIELD & HOVEY, New York, Bull. Amer. Mus. Nat. Hist. **22**.—*S. variabilis* sp. n. Cretaceous, Hungary, PETHÖ, Palaeontographica **52** (238-40).

†*Siliqua aequilatera* sp. n. Cretaceous, Germany, HARBORT, Berlin, Abh. Geol. Landesanst. **45** (73).

†*Solecurtus longovatus* sp. n. Cretaceous, Germany, HARBORT, Berlin, Abh. Geol. Landesanst. **45** (71).—*S.* sp. Woods, Cape Town, Ann. S. Afric. Mus. **4** (303).

*Solen fonesii* Dkr., *viridis* Say, anatomy, BLOOMER, London, Proc. Malac. Soc. **7** (18).

†*Solen matheroni* sp. n. Lower Campanian, S.E. France, REPELIN, Marseille, Ann. Mus. **10** (72).

*Sphaerium hendersoni* sp. n. Colorado, STERKI, Nautilus **20** (69).—*S. victoriae* sp. n. Victoria Nyauza, SMITH, London, Proc. Zool. Soc. **1906** (186).—*S. solidulum*, pathology, STERKI, Nautilus **20** (11).—*S. stamineum* var. n. *forbesi*, Illinois, BAKER, Nautilus **20** (21-2).

†*Sphaerium florissantense* sp. n. Colorado, COOKERELL, New York, Bull. Amer. Mus. Nat. Hist. **22**.

†*Sphaerulites*, notes on the genus; *S. solutus* sp. n. Cretaceous, Hungary, PETHÖ, Palaeontographica **52** (276-89).

†*Sphenia*? *pholadum* sp. n. Paleocene, Egypt, OPPENHEIM, Palaeontographica **30** (192).

†*Sphenotus longissimus* sp. n. Devonian, Germany, SCHMIDT, Berlin, Zs. D. Geol. Ges. **57** (557).

*Spondylus glorianus* sp. n. Persian Gulf, MELVILL & STANDEN, London, Proc. Zool. Soc. **1906** (811).

†*Stirpulina bacillum* Brocchi, Beschreibung, VADÁSZ, Földt. Közl. **36**.

†*Strigilla* v. *Tellina*.

*Syndesmya cistula* sp. n. Persian Gulf and Gulf of Oman, MELVILL & STANDEN, London, Proc. Zool. Soc. **1906** (825).—*S. grimaldii*, *demisia* spp. n. Cape Verd Is., DAUTZENBERG & FISCHER, Monaco, Res. Camp. sci. **32** (93-4).—*S. alba*, Trematode parasites; *Cercaria myocercoides* sp. n. (162-3), *C. setifera* Müll.

(x-9720 r).

(164-5), *C. nigrotincta* sp. n. (166), *C. syndesmyae* sp. n. (172-3), *Bucephalus haimeanus* Lac.-Duth. (176-7), PELSENEER, **3**.—*S. (Abra) seurati* sp. n. Gambiers, LAMY, Bull. Mus., Paris **12** (210).

†*Taneredia transversa* sp. n. Jurassic, N. America, WHITFIELD & HOVEY, New York, Bull. Amer. Mus. Nat. Hist. **22**.

*Tapes aureus* and its allies, notes, JUKES-BROWNE, Leeds, J. Conch. **11** (275).—*T. deussatus*, Trematode parasites; *Cercaria pectinata* Huet (163-4), PELSENEER, **3**.—*T. pullaster*, Trematode parasites; *Cercaria pectinata* Huet (163-4), *Bucephalus haimeanus* Lac.-Duth. (166-7), PELSENEER, **3**.

†*Tapes meridionalis* (67), *subfragilis*, (68) spp. n. Lower Campanian, S.E. France, REPELIN, Marseille, Ann. Mus. **10**.—*T. transenta* (300-1), (*Baroda*) *flagellifera* (301-2) spp. n. Cretaceous, Hungary, PETHÖ, Palaeontographica **52**.—*T. secundus* sp. n. Miocene, Novotcherkassk, BOGATCHEW, St. Petersburg, Bull. Com. géol. **24** (159-88).—*T. (?) loboocinsis* sp. n. Tertiary, Philippines, SMITH, Philippine J. Sci. **1** (629).

*Tellina (Arcopagia) altissima* sp. n. Bay of Bengal, SMITH, Ann. Mag. Nat. Hist., London **18** (259).—*T. (?) Tellinella* *asmena* (818-9), (*Moera*) *miracyllium* (820), *rosamunda* (820-1), (*Tellinula*) *claudia* (823) spp. n. Persian Gulf and Arabian Sea, MELVILL & STANDEN, London, Proc. Zool. Soc. **1906**.—*T. fabrefacta* Pilsbry (new to Australia) Masthead Reef, Q., HEDLEY, Sydney, N.S.W., Proc. Linn. Soc. **31** (478).—*T. (Macoma) ealearia* Chemn. (342-3), *torelli* Steenstr. (343-5), *meesta* Desh. (345-8), *loveni* Steenstr. (348-50) figd., JENSEN, Copenhagen, Meddel. Grönland **29**.—*T. solidula*, Trematode parasites; *Cercaria dichotoma* Müller (173-4), PELSENEER, **3**.

†*Tellina ovalis* sp. n. Cretaceous, Germany, HARBORT, Berlin, Abh. Geol. Landesanst., **45** (64).—*T. serricostata* (43), *ojiensis*, *nipponica* (44) spp. n. Tertiary, Japan, TOKUNAGA, Tokyo, J. Coll. Sci. **21**.—*T. (Moera?) fajumensis* (178), *situsensis* (178-9), (*Strigilla*) *formosissima* (180) spp. n. Tertiary, Egypt OPPENHEIM, Palaeontographica **30**.

*Tellinella* v. *Tellina*.

*Tellinula* v. *Tellina*.

†*Teredo libyca* [Mayer-Eymar MS], sp. n. Paleocene, Egypt, OPPENHEIM, Palaeontographica 30 (206-7).—*T.* sp., Woods, Cape Town, Ann. S. Afric Mus. 4 (309).

†*Thetis schauburgensis* sp. n. Cretaceous, Germany, HARBORT, Berlin, Abh. Geol. Landesanst. 45 (62).

†*Thracia aegyptiaca* (187-8) sp. n. Lutetian, Egypt, OPPENHEIM, Palaeontographica 30.—*T. colloti* sp. n. Lower Campanian, S.E. France, REPELIN, Marseille, Ann. Mus. 10 (73).

†*Trachycardium v. Cardium*.

†*Trigonia*, ASCHER, Wien, Beitr. Pal. Geol. OestUng. 19 (135-72).—*T. beyrichi* sp. n. Cretaceous, Tripoli, KRUMBECK, Palaeontographica 53 (104-5).—*T. spinuloso-costata* sp. n. Cretaceous, Hungary, PETHÖ, Palaeontographica 52 (251-4).—*T. sturgisensis, poststriata* spp. n. Jurassic, N. America, WHITFIELD & HOVEY, New York, Bull. Amer. Mus. Nat. Hist. 22.—*T. elegans* Bail. (293), *shepstonei* Griesb. (292) re-described and figured, Woods, Cape Town, Ann. S. Afric. Mus. 4.

†*Trigonoarca v. Cucullaea*.—*T. capensis* Griesb. re-described and figured, Woods, Cape Town, Ann. S. Afric. Mus. 4 (288).

†*Tugonia lorioli* (200-1), *zitteli* (201), Lutetian, Egypt, OPPENHEIM, Palaeontographica 30.

†*Unicardium hemirhytideum* sp. n. Jurassic, France, COSSMANN, Paris, C.-R. ass. franc. avanc. sci. 34 (290).

*Unio pajakomboensis* sp. n. Sumatra, BULLEN, London, Proc. Malac. Soc. 7 (15).—*U. (Cuneopsis) tauriformis* sp. n. Yunnan, FULTON, Ann. Mag. Nat. Hist., London 17 (246).—*U. (Grandidieria) rothschildi, chefnouxi* spp. n. Lake Rudolph, NEUVILLE & ANTHONY, Bul. Mus., Paris 12 (409).—*U. jourdyi* var. n. *ponderosa* (453); *U. dephinopterus* n. n. for *U. bialatus* Simpson non Desh. (456), DAUTZENBERG & FISCHER, J. Conchyliol. 53.—*U. moncei* Bourguignat var. n. *rubra*, GERMAIN, Bul. Mus., Paris 12 (306).—*U. pictorum*, histology of heart, ŁOZIŃSKI, Kraków, Rozpr. Akad. 46 B (55-64).

*Venericardia lutea*, New Zealand, figd., HEDLEY, Wellington, Trans. Proc. N. Zealand Inst. 33 (73).

†*Venilicardia v. Cyprina*.

*Ventricola v. Venus*.

*Venus (Ventricola) verdensis* (83-4), *pereffossa* (85-6) spp. n.; *V. (V.) casina* Lin. var. n. *albina* (83); Cape Verd Is. and Madeira, DAUTZENBERG & FISCHER, Monaco, Res. Camp. sci. 32.

†*Venus ebergenyii* sp. n. Tertiary, Mexico, BÖSE, Mexico, Bol. Inst. Geol. 22 (28).—*V. mercenaria* var. *antiqua*, deposit in New York city, WILSON, Science 23 (821-2).

*Verticordia rhomboidea* sp. n. New Zealand, HEDLEY, Wellington, Trans. Proc. N. Zealand Inst. 38 (72-3).—*V. torrida* sp. n. Mast Head Reef, Q., HEDLEY, Sydney, N.S.W., Proc. Linn. Soc. 31 (473).

*Vesicomya cretacea, brevis* sp. n. Bay of Bengal, SMITH, Ann. Mag. Nat. Hist., London 18 (261).

*Vola v. Pecten*.

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*Abraliopsis* sp., pelagic eggs and embryos, NISHIKAWA, **2**.

†*Acanthodiscus* gen. n. for *A. subradiatus* sp. n., etc., UHLIG, Wien, SitzBer. Ak. Wiss. **114** (609).

†*Aerochordiceras portisi* sp. n. Trias, Montenegro, MARTELLI, Paleontogr. Italica, Pisa **12** (132).

†*Actinocamax plenus* Bl. mut. n. *caucasicus*, Cretaceous, Caucasus, BODANOVIC, St. Peterburg, Mem. Cum. Geol. **26** (103-6).

†*Actinoceras keewatinense* sp. n. Silurian, N. Canada, WHITEAVES, Rep. Geol. Surv. Can. **14** (548).

†*Aganides kochi* sp. n. Jura, Ungarn, PRINZ, Ann. Hist.-Nat. Mus. Nat. Hung., **4** (230).

†*Ammonites (Oegoceras) subtumidum* sp. n. Jurassic, N. America, WHITFIELD & HOVEY, New York, N.Y., Bull. Amer. Mus. Nat. Hist. **22**.

†*Anarcestes podolicus* sp. n., Palaeozoic, Podolia, SIEMIRADZKI, Wien, Beitr. Pal. Geol. OestUng. **19** (229).

†*Anisoceras* v. *Hamites*.

†*Arniotites schmerbitzei* (279), *stantei* (280) spp. n. Trias, Germany, FRITSCHE, Halle, Abh. natf. Ges. **24**.

†*Arpadites arpadis* var. n., MARTELLI, Paleontogr. Italica, Pisa **12** (127).

†*Baculites bailyi*, *capensis* spp. n. Cretaceous, Pondoland; *B. sulcatus*, Bail. noticed and figured, Woods, Cape Town, Ann. S. Afric. Mus. **4** (341-2).

†*Balatonites macer* sp. n. Trias, Germany, FRITSCHE, Halle, Abh. Natf. Ges. **24** (274).

†*Baltoceras* (?) *pusillum* sp. n. RUEDEMANN, Albany, N.Y., St. Educ. Dept., Mus. Bull. **90**.

†*Barrandoceras*, notes on species, WHITEAVES, Ottawa, Geol. Surv. Canada **3** (299).

*Bathothauma* gen. n.; *B. lyromma* sp. n., Atlantic, CHUN, Zool. Anz. **31** (86).

†*Belemnites*, notes on, DANFORD, Tr. Hull Geol. Soc. **6** (1-14).—*B. obtusus* sp. n. Jurassic, N. America, WHITFIELD & HOVEY, New York, N.Y., Bull. Amer. Mus. Nat. Hist. **22**.

†*Beuheckeia denticulata* sp. n. Trias, Germany, FRITSCHE, Halle, Abh. Natf. Ges. **24** (264).

†*Berriasella* gen. n. for *Hoplites privasensis* Pictet, etc., UHLIG, Wien, SitzBer. Ak. Wiss. **114** (601).

†*Blanfordia* [nom. preocc.] gen. n. for *Ammonites wallichi* Gray, UHLIG, Wien, SitzBer. Ak. Wiss. **114** (602).

†*Cameroeras curvatum* sp. n. Chazy formation, America, RUEDEMANN, Albany, N.Y., St. Educ. Dept., Mus. Bull. **90**.

- †*Ceratites*, division of, DIENER, Wien, SitzBer. Ak. Wiss. **114** (765).—**Subgen. n. v. Philippites**.—*C. bassanii* sp. n. Trias, Montenegro, MARTELLI, Paleontogr. Italica, Pisa **12** (125).
- Cheiroteuthis macrosoma* Goodrich, (Japanese), NISHIKAWA, Dobuts. Z., Tokyo **18** (109-3).
- Chiroteuthopsis talismani* sp. n. S. Azores, FISCHER & JOUBIN, Bul. Muséum, Paris **12** (205).
- †*Clinoceras ellipticum, podolicum* spp. n. Palaeozoic, Podolia, SIEMIRADZKI, Wien, Beitr. Geol. Pal. OestUng. **19** (226).
- †*Coeloceras taramellii* sp. n. Lias, Italy, PARISCH & VIALE, Riv. Ital. Pal. **12** (160).—Notes on species, JOLY, Nancy, Bul. soc. sci. **6** (1-11).
- †*Collina aculeata* (165), *linae* (166), spp. n. Lias, Italy, PARISCH & VIALE, Riv. Ital. Pal. **12**.
- "*Conchorhynchus*," TILL, Wien, Jahrb. Geol. RechsAnst. **56** (89-154).
- Corynomma* gen. n.; *C. speculator* sp. n., Atlantic, Indian Ocean, CHUN, Zool. Anz. **31** (85).
- †*Crioceras sarta* sp. n. Senonian, Germany, MÜLLER & WOLLEMAN, Berlin, Abh. geol. Landesanst. **47** (20).
- Crystalloteuthis* gen. n.; *C. glacialis* sp. n., Antarctic (85), CHUN, Zool. Anz. **31**.
- Ctenopteryx*, notes on, ASHWORTH & HOYLE.
- †*Cyrtactinoceras champlainense* sp. n., RUEDEMANN, Albany, N.Y., St. Educ. Dept., Mus. Bull. **90**.
- †*Cyrtendoceras* (?) *priseum* sp. n., RUEDEMANN, Albany, N.Y., St. Educ. Dept., Mus. Bull. **90**.
- †*Cyrtoceras cambria* sp. n. Cambrian, China, WALCOTT, Washington, Nation. Mus. Proc. **29** (22).—*C. (?) cuneatum* sp. n. Paleozoic, Canada, WHITEAVES, Ottawa, Geol. Surv. Canada **3** (282).—*C. breve, podolicum* spp. n. Palaeozoic, Podolia, SIEMIRADZKI, Wien, Beitr. Pal. Geol. OestUng. **19** (228).—*C. anormale* Barr., *formidandum* Barr., *intermedium* Blake, *simon* Barr, *vivax* Barr., figd., SIEMIRADZKI, Wien, Beitr. Pal. Geol. Oest.-Ung. **19** (227-8).—*C. cuneatum*, notes, WHITEAVES, Ottawa Natural. **20** (133).
- †*Deltoceras vaningeni* sp. n., RUEDEMANN, Albany, N.Y., St. Educ. Dept. Mus. Bull. **90**.
- †*Dumorteria dumortieri* Thioll var. n. *stricta*, PRINZ, Földt. Közl., Budapest **36** (57-8, 161-2).
- Eledone*; Innervation der Chromatophoren, SAINT-HILAIRE, Jurjev, Sitzb. Naturf. Ges. **15** (51-9, 60-6).
- †*Endoceras*, siphuncle, WHITEAVES, Amer. Geol., Minneapolis **35** (23).—*E. (?) champlainense, hudsoni, magister* spp. n., RUEDEMANN, Albany, N.Y., St. Educ. Dept., Mus. Bull. **90**.
- †*Eulophoceras natalense* Hyatt, figured, WOODS, Cape Town, Ann. S. Afric. Mus. **4** (337).
- †*Eurystomites accelerans, ampletens* spp. n., RUEDEMANN, Albany, N.Y., St. Educ. Dept., Mus. Bull. **90**.
- †*Frechiella pannonica* sp. n. Lias, Hungary, (159); *F. kammerkarensis* var. n. *gerecsensis* (158), PRINZ, Földt. Közl., Budapest **36**.
- †*Gaudryceras kayei* Forb. noticed and figured, WOODS, Cape Town, Ann. S. Afric. Mus. **4** (335).
- †*Glossoceras carinatum* Alth. figd., SIEMIRADZKI, Wien, Beitr. Pal. Geol. OestUng. **19** (227).
- Gomphoceras ellipticum* McCoy., *pyri-forme* Sow., figd., SIEMIRADZKI, Wien, Beitr. Geol. Pal. OestUng. **19** (226-7).
- †*Gonioceras chaziense* sp. n., RUEDEMANN, Albany, N.Y., St. Educ. Dept., Mus. Bull. **90**.
- †*Grammoceras* v. *Harpoceras*.
- †*Halorites trotteri* (5), *alternans* (6), spp. n. Trias, India, DIENER, Rec. Geol. Surv. India **34**.
- †*Ilamites (Anisoceras) indicus* Forb. (340), *subcompressus* Forb. (339) figd., WOODS, Cape Town, Ann. S. Afric. Mus. **4** (340).
- †*Hammatoceras bonarellii* sp. n. Lias, Italy, PARISCH & VIALE, Riv. Ital. Pal. **12** (159).
- †*Haploceras (Lissoceras) psilodiscus* Jurassic, S. Carpathians, figd., SIMIONESCU, Publ. Adamachi Ac. Romana **13** (29-30).

†*Harpoceras buranense* sp. n. Lias, Italy, PARISCH & VIALE, Riv. Ital. Pal. 12 (148).—*H. (Grammoceras) steinmanni* Haug., Beschreibung, PRINZ, Math. Term. Ert. 24.

†*Hauericeras gardeni* Bail. noticed, Woods, Cape Town, Ann. S. Afric. Mus. 4 (333).

†*Hecticoeras retrocostatum* (24), *inflexum* (25), Jurassic, S. Carpathians, figd., SIMIONESCU, Publ. Adamachi Ac. Romana 13.

†*Heteroceras*, sp. figd., Woods, Cape Town, Ann. S. Afric. Mus. 4 (339).

†*Hildoceras urbiense* (153), *cterinae* (154), *chelussii* (156) spp. n. Lias, Italy, PARISCH & VIALE, Riv. Ital. Pal. 12.

†*Holcodiscus*, sp. figd., Woods, Cape Town, Ann. S. Afric. Mus. 4 (336).

†*Hoplites*, division of with new names, UHLIG, Wien, SitzBer. Ak. Wiss. 114 (591).—subgen. n. v. *Kilianella*, *Neocomites*, *Sarasinelia Solgeria*.

†*Indoceras baluchistanense*, development, NOETLING, Geol. u. paläont. Abh., Jena 12 1906 (1-96); N. Jahrb. Min., 1, 1905 (1).

†*Kilianella* subgen. n. of *Hoplites* for *H. hexiptycha* Uhlig, etc., UHLIG, Wien, SitzBer. Ak. Wiss. 114 (614).

*Loligo*, Innervation der Chromatophoren, SAINT-HILAIRE, Jurjev, Sitzb. Naturf. Ges. 15 (54-66).

†*Lytoceras italiae* sp. n. Lias, Italy, PARISCH & VIALE, Riv. Ital. Pal. 12 (144).—*L. fasciculatum* sp. n. Jurassic, S. Carpathians (23); *L. adeloides, tripartitum*, figd. (22), SIMIONESCU, Publ. Adamachi Ac. Romana 13.

†*Macrocephalites subtumidus*, Jurassic, S. Carpathians, figd., SIMIONESCU, Publ. Adamachi Ac. Romana 13 (33).

†*Martolites* gen. n. for *M. krafftii* sp. n. Trias, India, DIENER, Rec. Geol. Surv. India 34 (6).

†*Monophyllites taramellii* sp. n. Trias, Montenegro, MARTELLI, Paleontogr. Italica, Pisa 12 (135).

†*Mortonicerias michelii*, note, FUCINI, Pisa, Proc. verb. soc. tosc. sci. nat. 15 (54).—*M. soutoni* Bail. (337), *strangeri* Bail. (338), noticed and figured, Woods, Cape Town, Ann. S. Afric. Mus. 4.

†*Nanno noveboracum* sp. n. RUEDEMANN, Albany, N.Y., St. Educ. Dept., Mus. Bull. 90.—*N. primaevus* (26), *kingstonensis* (27) spp. n. Cambro-Silurian, Canada, WHITEAVES, Amer. Geol., Minneapolis 35.

†*Nautilus broitzemensis* sp. n. Senonian, Germany, MULLER & WOLLEMANN, Berlin, Abh. geol. Landesanst. 47 (2).—*N. poststriatus* (211), *orbignyi* (213), *geyeri* (215), *schulmi* (225) *profundisiphites* (226), *altisiphites* (227) *subtruncatus* (228) spp. n. Jurassic, Hungary PRINZ, Ann. Hist.-Nat. Mus. Nat. Hung. 4.—*N. lineatus* Sow. varr. n. *angusti-umbilicata* (219-20), *schubleri* (220-1), *N. semistriatus* Orb. var. n. *globosa* (215-7), *N. semseyi* PRINZ mut. n. *ovalis* (223-4), Jura, Ungarn, PRINZ, Ann. Hist.-Nat. Mus. Nat. Hung. Budapest 4.—*N.* sp. figd., Woods, Cape Town, Ann. S. Afric. Mus. 4 (330).—*N. disculus* Desh., Eocene, Monte Postale, figd., FABIANI, Padova, Atti Ac. Ven.-Trent., N.S. 2 (157).

†*Nautilites* gen. n. for *Nautilus excavatus*, Sby., etc., PRINZ, Ann. Mus. Nat. Hist. Hung., Budapest 4 (232).

†*Neocomites* subgen. n. of *Hoplites* for *H. neocomiensis* D'Orb., etc. UHLIG, Wien, SitzBer. Ak. Wiss. 114 (620).

*Octopus*, urinary secretion, GOMPEL & HENRI, Paris, C.-R. soc. biol. 60 (886-7).—*O. vulgaris*, histology of kidney, MAYER & RATHERY, Paris, C.-R. soc. biol. 60 (1121-3).—*O. vulgaris*, ganglion cells, GARISEFF, Paris, C.-R. soc. biol. 61 (201-2).

†*Oegoceras* v. *Ammonites*.

†*Oekotraustes binodosus* Jurassic, S. Carpathians, figd., SIMIONESCU, Publ. Adamachi Ac. Romana 13 (26-7).

†*Oncoceras pristinum* sp. n., RUEDEMANN, Albany, N.Y., St. Educ. Dept., Mus. Bull. 90.

†*Ooceras seelyi*, (?) *lativentrum*, (?) *perkinsi* spp. n., RUEDEMANN, Albany, N.Y., St. Educ. Dept., Mus. Bull. 90.

*Opisthoteuthis depressa*, anatomy, MEYER, Zs. wiss. Zool. 85 (183-269).—*O. depressa*, male reproductive organs, MEYER, Zool. Anz. 29 (758-60).

†*Oppelia fusca* Jurassic, S. Carpathians, figd., SIMIONESCU, Publ. Adamachi Ac. Romana 13 (27).

†*Orthoceras elkwanense* sp. n. Silurian, N. Canada, WHITEAVES, Rep. Geol. Surv. Can. 14 (56 F).—*O. lentum*, *progressum*, (?) *vaquam*, *modestum* spp. n., RUEDEMANN, Albany, N.Y., St. Educ. Dept., Mus. Bull. 90.—*O. rex* sp. n. Paleozoic, South Africa, SCHWARTZ Grahamstown, Rec. Albany Mus. 1 (381).—*O. hisingeri* Boll., *kendalense* Blake, cf. *longulum* Barr, *podolicum* Alth., *pseudombricatum* Barr., *Roemeri* Alth., figd., SIEMIRADZKI, Wien, Beitr. Geol. Pal. OestUng. 19 (223-5).

†*Orygoceras* gen. n., RUEDEMANN, Albany, N.Y., St. Educ. Dept., Mus. Bull. 90.

†*Pachydiscus supremus* sp. n. Cretaceous, Hungary, PRŤHŮ, Palaeontographica 52 (88-94).

†*Palaeoteuthis* TILL, Wien, Jahrb. Geol. RchsAnst. 56 (89-154).

†*Peltoceeras*, notes on spp., SALFELD, N. Jahrb. Min. 1906 1 (80).

†*Perisphinctes subtiliformis* (40), *suplanus* (38), *transylvanicus* (38) spp. n. Jurassic, S. Carpathians; *P. aurigerus* (34), *moorei* (34), *orion* (36), *procerus* (37) figd., SIMIONESCU, Publ. Adamachi Ac. Romana 13.

†*Philippites* subgen. n. of *Ceratites* for *C. erasmi*, DIENER, Wien, SitzBer. Ak. Wiss. 114 (723).

†*Phragmoceras lincolatum* sp. n. Silurian, N. Canada, WHITEAVES, Rep. Geol. Surv. Can. 14 (57F).

†*Phylloceras diegoi* sp. n. Cretaceous, Madagascar, BOULE, LEMOINE & THÉVENIN, Ann. Palaeont. 1.—*P. mediterraneum* (11-3), *stabellatum* (14-5), *euphyllum* (15-6), *kudermatschi* (16-8), *disputabile* (18-20), *subobtusum* (20-2), Jurassic, S. Carpathians, figd., SIMIONESCU, Publ. Adamachi Ac. Romana 13.—*P. baconicum* Hantk. em. Prinz; *P. hantkeni* Schloenb. em. Prinz; *P. cf. zetes* Orb., Beschreibung, PRINZ, Math. Term. Ért. 24.—*P.* spp. figd., Woods, Cape Town, Ann. S. Afric. Mus. 4 (331-2).

†*Pinacoceras delorenzoi* (128), *simplex* (130) spp. n. Trias, Montenegro, MARTELLI, Paleontogr. Italica 12.

†*Plectoceras*, notes on spp., WHITEAVES, Ottawa, Geol. Surv. Canada 3 (299).

†*Pleuromantulus stautei* sp. n. Trias, Germany, FRITSCH, Halle, Abh. Natf. Ges. 24 (246).

†*Poterioceras kentlandensis* sp. n., ROWLEY in GREENE, Cont. Indiana Palaeont. 2 pt. 1.

†*Protocycloceras ulitfeldi* sp. n., RUEDEMANN, Albany, N.Y., St. Educ. Dept., Mus. Bull. 90.

†*Pseudophyllites indra* Forb. noticed, Woods, Cape Town, Ann. S. Afric. Mus. 4 (334).

†*Psiloceras planorbe*, note, NICKLÈS.

†*Ptychites subdiscoidalis* (141), *canavaris* (143), *princeps* (147), *distefanoi* (149) spp. n. Trias, Montenegro, MARTELLI, Paleontogr. Italica, Pisa 12.

†*Reineckia angustilobata*, note, COLLOT, Feuille jeunes natural., Paris 36 (25).

†*Rhabdoceras*, development, JANENSCH, Centrall. Min. Stuttgart 1906 (710).

†*Rhacophyllites vredenburgi* sp. n. Trias, Baluchistan, DIENER, Rec. Geol. Surv. India 34 (18).

"*Rhyncholithes*" of the Neocomian of Silesia; *R. bohemia*, *cassianis*, *cordiformis*, *hohcneggeri*, *neocomiensis*, *obtusus*, *oxfordiensis*, *silesiacus*, *striatus*, *sulcatus*, *uhligi* spp. n., TILL, Wien, Jahrb. Geol. RchsAnst. 56 (89-154).

"*Rhynchoteuthis*," TILL, Wien, Jahrb. Geol. RchsAnst. 56 (89-154).

*Sandalops* gen. n.; *S. melancholicus* sp. n. Atlantic, CHUN, Zool. Anz. 31 (86).

†*Sarasinella* subgen. n. of *Hoplites* for *H. varians* sp. n. &c., UHLIG, Wien, SitzBer. Ak. Wiss. 114 (618).

†*Scaphites*, development, SMITH, Chicago, J. Geol. 13 (635).—*S.* sp. figd., Woods, Cape Town, Ann. S. Afric. Mus. 4 (343).

"*Scaptorhynchus*," TILL, Wien, Jahrb. Geol. RchsAnst. 56 (89-154).

†*Schloenbachia kittli*, Neocomian, Austria, RICHARZ, Wien, Jahrb. Geol. RchsAnst. 54 (344).—*S. umbulazi* Bail. noticed, Woods, Cape Town, Ann. S. Afric. Mus. 4 (336).



†*Schlotheimia stricklandi* (235), *cheloniansis* (241), *larvalis* (242), *glevensis* (243), *subdeleta*, *substriata*, (245) spp. n. Lias, England; *S. gallica* n. n. for *Ammonites catenatus* D'Orb. (237), BUCKMAN, Gloucester, Proc. Cotteswold Nat. F. Cl. 15.

†*Schluteria bodei* sp. n. Senonian, Germany, MULLER & WOLLEMAN, Berlin, Abh. geol. Landesanst. 47 (13).

*Sepiola*, Innervation der Chromatophoron, SAINT-HILAIRE, Jurjev, Sitzb. Naturf. Ges. 15 (54-66).—*S. scandica* Steenst. var. n. *macrocephala*, FISCHER & JOUBIN, Bul. Mus. Paris 12.

†*Siremites elegantiformis* sp. n. Trias, India, DIENER, Rec. Geol. Surv. India 34 (10).

†*Solgeria* subgen. n. of *Hoplites* for *H. leopoldina* D'Orb., etc., UJLIG, Wien, SitzBer. Ak. Wiss. 114 (624).

†*Sonneratia cereviciana* sp. n. Cretaceous, Hungary, PETIÜ, Palaeontographica, Stuttgart 52 (95-8).

†*Sphæroceras microstomum*, Jurassic, S. Carpathians, figd., SIMIONESCU, Publ. Adamachi Ac. Romana 13 (32).

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# IX. ARTHROPODA

ARRANGED BY

D. SHARP

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## CONTENTS

	PAGE
I. TITLES .. .. .	2
II. SUBJECT INDEX :—	
General=2403 .. .	3
Structure=2407 .. .	3
Physiology=2411 .. .	3
Ethology=2419 .. .	3
Aetiology=2423 .. .	3
Geography=2427 .. .	3

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Morphologie und Genese abweichend gestalteter Spermatozoen; **Korschelt, 1.**

## PHYSIOLOGY. 2411

Présence d'un corps réducteur dans le tégument chitineux des Arthropodes; **Mirande, 1.**

Fonction du tégument des Arthropodes considéré comme organe producteur du sucre; **Mirande, 2, 3.**

Fettkörper und Nephrocyten, Abstammung (Russ.); **Filipčenko.**

Granula and ameboid movements in the blood cells; **Loeb.**

Regeneration der Extremitäten; **Korschelt, 2; Ost.**

## II.—SUBJECT INDEX.

## GENERAL. 2403

Bibliography of biology of arthropoda for 1905; **Mayer and Giesbrecht.**

Insektensammlungen für Mittelschulen (Ungarisch); **Szilády.**

Prof. Berlese's apparatus for collecting arthropoda; **Champion; Howard.**

Sammlen im Winter in Zelenka (Ungarisch); **Chyzer.**

Different kinds of types; **Fernald.**

Gliedertiere . . . auf Reisen; **Reh.**

## STRUCTURE. 2407

Présence d'un corps réducteur dans le tégument chitineux des Arthropodes; **Mirande, 1.**

Modes d'insertion des muscles sur la cuticule chez les Arthropodes; **Henneguy.**

## ETHOLOGY. 2419

Instinct et mœurs; **Fabre.**

Faune cavernicole, Basses-Alpes **Peyerimhoff.**

Faune de la grotte de Camon **Jeannel.**

Begattungszeichen bei Gliedertieren **Japha.**

Die schwarz gesprenkelte rothe Schutzfarbe der Insekten (Ungarisch); **Sajó.**

Faune cécidiologique de la Bretagne **Houard.**

Merkwürdige Gallenbildungen **Rudow.**

## AETIOLOGY. 2423

Phylogeny; **Handlirsch.**

## GEOGRAPHY. 2427

Scotland, St. Kilda, Arthropoda **Evans, 2.**



# X. CRUSTACEA

ARRANGED BY

R. SHELFORD.

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## CONTENTS

	PAGE
Crustacea.	
I. TITLES=2600 .. .. .	4
II. SUBJECT-INDEX :—	
General, Economics, Technique=2603 .. .. .	22
Structure=2607 .. .. .	22
Physiology=2611 .. .. .	22
Development=2615 .. .. .	23
Ethology=2619 .. .. .	23
Variation and Aetiology=2623 .. .. .	24
Geographical=2627 .. .. .	25
Living forms :—	
Europe and Mediterranean= <i>d</i> .. .. .	25
Asia and Malay Archipelago= <i>e</i> .. .. .	26
Africa and Madagascar= <i>f</i> .. .. .	26
North America= <i>g</i> .. .. .	27
Central and South America, West Indies= <i>h</i> .. .. .	27
Australasia= <i>i</i> .. .. .	28
Arctic and Antarctic= <i>k, o</i> .. .. .	28
Atlantic Ocean= <i>l</i> .. .. .	28
Indian Ocean= <i>m</i> .. .. .	28
Pacific Ocean= <i>n</i> .. .. .	28
Fossil Forms .. .. .	29

	PAGE
III. SYSTEMATIC=2631 :—	
Decapoda .. .. .	29
Brachyura :—	
Oxyrhyncha .. .. .	29
Cyclometopa .. .. .	31
Catometopa .. .. .	34
Oxystomata .. .. .	35
Dromiacea .. .. .	36
Incertae sedis .. .. .	36
Anomura :—	
Galatheidea .. .. .	36
Paguridea .. .. .	37
Macrura .. .. .	37
Nephropsidea .. .. .	37
Eryonidea .. .. .	38
Loricata .. .. .	38
Thalassinidea .. .. .	38
Caridea .. .. .	39
Penaeidea .. .. .	41
Stenopidea .. .. .	42
Incertae sedis .. .. .	42
Schizopoda .. .. .	42
Stomatopoda .. .. .	44
Cumacea .. .. .	44
Tanaidacea .. .. .	44
Isopoda .. .. .	44
Asellota .. .. .	44
Phreatoicoidea .. .. .	45
Flabellifera .. .. .	45
Valvifera .. .. .	45
Epicaridea .. .. .	46
Oniscoidea .. .. .	46
Incertae sedis .. .. .	47
Amphipoda .. .. .	47
Phyllocarida .. .. .	49
Branchiopoda :—	
Phyllopoda .. .. .	49
Cladocera .. .. .	49
Copepoda .. .. .	50
Branchiura .. .. .	56
Ostracoda .. .. .	56
Cirripedia .. .. .	59



**Pantopoda, Pycnogonida and the Gigantostraca allies, previously placed in the Zoological Record with Crustacea, are associated with Arachnida in this Volume.**

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## II.—SUBJECT-INDEX.

*N.B.*—For full Reference, go to Titles.

GENERAL, ECONOMICS,  
TECHNIQUE. 2603

Collecting and preservation of *Crustacea*; **Samter and Weltner, 2.**

*Decapoda* as food; **Bouvier, 10.**

Edible *Crustacea*; **Stead.**

Chela of *Gelasimus tangeri* as food in Andalusia; **Baudouin, 2, 3.**

*Cambarus* spp. as food and bait; **Ortmann, 2.**

Crayfish and lobster-fishery industry in the United States; **Andrews, 4, 5; Herrick.**

Protection of crab and lobster fisheries; **Meek, 2.**

Statistics of capture of *Pandalus borealis*; **Wolleboek, 1.**

*Argulus* affecting salmon-breeding; **Léger, 2.**

Diseases of *Crustacea* of economic importance; **Drouin de Bouville, Léger, 1.**

Re-stocking of rivers with crayfish; **Drouin de Bouville.**

(Repeuplement des cours d'eau. Protection des Poissons et Crustacés; **Galbert, de.)**

Suggested introduction of *Astacus* into Eastern United States; **Andrews, 6.**

STRUCTURE. 2607

(Torsion of the crustacean limb; **Herrick, 2.)**

Anatomy of *Rhizocephala*; **Smith, Geoffrey.**

*Astacus*; **Anglas.**

(Internal anatomy of *Cirripectida*; **Gruvel, 4, 5.)**

Integument of *Hemilepistus*; **Faussek.**

Nervous system of *Daphnidae*; **Retzius.**

Of *Copepoda*; **Esterly, 3.**

Of *Gammarus pulex*; **Wreden.**

Median eye in *Artemia salina*; **Nowikoff,**

Degenerate eyes of *Palaemonetes eigenmanni*; **Pike.**

Digestive system of *Copepoda*, *Isopoda*, *Decapoda*; **Guieysse, 2.**

Frontal glands of *Caprellidae*; **Bruntz, 1.**

Frontal organ in *Artemia salina*; **Nowikoff.**

Suctorial apparatus of *Nicothoa astaci*; **Quidor, 4.**

Blood corpuscles and blood-forming tissue in *Crustacea*; **Bruntz, 2, 3, 4, 5, 6, 7.**

Female sexual organs in *Cypridina*; **Ramsch.**

Annulus ventralis, *Cambarus*; **Andrews, 2, 3.**

PHYSIOLOGY. 2611

Sex production in *Daphnidae*; **Issakowitsch.**

Parasitic Castration in *Decapoda* and *Anomura*; **Potts, Smith, Geoffrey.**

Function of digestive-gland in *Decapoda*; **Roaf, Sellier.**

(Tactile and muscular perceptions of *Paguridae*; **Bohn, 1.)**

(Phototropism of *Homurus* larvae; **Bohn, 2.)**

(Phagocytosis and excretion in *Branchiopoda*; **Bruntz, 8.)**

Physiology of the heart in *Decapoda*; **Carlson.**

Rate of heart-beat in *Ceriodaphnia*; **Robertson.**

Circulation of blood of *Cladocera*; **Hérouard, 1.**

Reactions of *Cambarus* to stimuli; **Bell, 1, 2.**

Orientation of *Homarus* in response to optical stimuli; **Hadley, 1.**

(Heliotropic reactions in *Crustacea* controlled by chemicals; **Loeb, 2.)**

Heliotropism: of *Palaemonetes* larvae; **Lyon; of *Gammarus pulex*; Loeb, 1.**

(Pigment and phototropism in *Gammarus*; **Smith, Grant.)**

Environmental effects on *Artemia salina*; **Artom, 1, 3.**

Colour-physiology of *Crustacea*; **Gamble and Keeble.**

Effect of cytotoxins on *Crustacea*; **Szczawinska.**

Hermaphroditism and complemental males, *Rhizocephala*; **Smith, Geoffrey.**

Hermaphroditism, *Apus*; **Zograf, 2.**

## Regeneration.

*Oniscus murarius*; **Ost, 1, 2, 3.**

Chela in *Gelasimus tangeri*; **Baudouin, 2, 3.**

Of chelae in *Homarus*; **Emmel, 1, 2.**

Of the sperm-receptacle in *Cambarus*; **Andrews, 1.**

(The regeneration of a double chela in the fiddler crab (*Gelasimus pugilator*) in place of a normal single one; **Zeleny, 2.**)

Vestigial eye replaced by antenna-like organ in *Cambarus*; **Zeleny, 1.**

(Experiments on association and memory in *Eupagurus*; **Spaulding.**)

## DEVELOPMENT. 2615

Spermatogenesis in *Astacus*; **Koeppen.**

Chromosomes of spermatocytes of *Oniscus*; **Nichols, 1, 2.**

Chromosomes and maturation of ova in *Artemia*; **Artom, 2.**

Parthenogenesis in *Artemia salina*; **Artom, 4.**

Embryology of *Nebalia*; **Robinson.**

Development of *Rhizocephala*; **Smith, Geoffrey.**

Polyembryony, *Rhizocephala*; **Smith, Geoffrey.**

Larval forms and metamorphosis, *Cirripedia*; **Tessmann.**

Of *Copepoda*; **Oberg, 1, 2.**

Of *Cyclops*; **Byrnes.**

Of parasitic *Copepoda*; **McClendon.**

Larval stages of *Maerura*; **Coutière, 3.**

Of *Hoplophoridae*; **Coutière, 4.**

Life history of *Mysis mixta*; **Apstein, 2.**

Of *Scelerocraugon*; **Wolkeboeck, 2.**

Of *Athanas nitescens*; **Sars, 2.**

Of *Cambarus*; **Ortmann, 2.**

Of *Calanus finmarchicus*; **Paulsen.**

(Immature specimens of *Penella filosa*; **Thompson.**)

(Cervical plate in *Artemia* larva; **Zograf, 3.**)

Organogeny, annulus ventralis, *Cambarus*; **Andrews, 3.**

Growth of *Homarus americanus*; **Hadley, 2.**

Growth of *Astacus fluviatilis*; **Gröscher.**

Cycles of generation of *Cladocera*; **Issakowitch, Keilhack, 2.**

Of *Chiridothea entomon*; **Skorikov.**

## ETHOLOGY. 2619

### Habits; general.

Of *Crustacea*; **Herdman.**

Of *Crustacea* in confinement; **Waters.**

Of Oriental *Crustacea*; **Doflein, 3;** of *Niphargus* and *Coccospheroma*; **Gal.**

Of *Hemilepistus*; **Faussek.**

Of *Polyphemus pediculus*; **Zacharias.**

Of *Galatheidæ*; **Galloway and Fleure.**

Of *Gecarcinidae* and *Anomura*; **Gravier.**

Biology of *Branchipus* and *Apus*; **Fritze.**

### Migration.

Of crabs; **Meek, 2.**

### Oviposition.

Of *Cambarus affinis*; **Andrews, 1.**

Polyandry in *Scalpellum stearnsi*; **Hoek, 1, 2.**

Food of subterranean *Crustacea*; **Ross.**

Burrowing habits of *Cambarus*; **Ortmann, 2.**

**Habitats.**

Of *Artemia* spp.; **Artom, 5.**

*Cambarus*; **Ortmann, 3.**

Cavernicolous *Crustacea*; **Chevreaux**  
*vide Peyerlmhoff, Viré.*

Beds of *Cirripectida* on Brittany coast;  
**Joubin.**

Marine plankton; **Appellöf, Apstein,**  
**1, Breemen, 1, 2, Derjugin, Esterly,**  
**Gough, Holt, Illig, Juday, Müller,**  
**Norman, Oberg, Pearson, Quidor, Rei-**  
**bisch, Sars, Scott, 1, 3, Tattersall, 1,**  
**Vavra, 3, Wolfenden, Woltereck, 2,**  
**Zykoff, 2.**

Bathypelagic *Crustacea*; **Bouvier, 12.**

Vertical distribution of *Gemadas*;  
**Bouvier, 2, 3.**

Deep-sea *Decapoda*; **Appellöf.**

Freshwater plankton; **Birge, Brady, 1,**  
**Brehm, 2, 3, 5, 6, Cleve, Car, Daday, For-**  
**dyce, Gammon, Largaiolli, Laroche,**  
**Lauterborn, Levander, Pearse, Schorler,**  
**Stingelin, Thiebaud and Favre, Volk,**  
**West, Woltereck, 3.**

Deep-water *Crustacea* of Swiss lakes;  
**Zschokke.**

Distribution in fresh water of primitively  
marine *Crustacea*; **Samter, 1.**

*Podopsis slabberi* in brackish pools,  
Italy; **Masi, 2.**

Halolimnic fauna of Africa; **Cal-**  
**man, 3.**

*Belisarius viguieri* in water at bases  
of leaves of *Bromeliaceae* and in  
pitchers of *Nepenthes*; **Scourfield.**

Seasonal distribution of freshwater  
plankton; **Schorler, Thallwitz, Schiller,**  
**Laroche, Levander, 1.**

Accidental introduction of crayfish  
into rivers; **Mingaud.**

**Symbiosis.**

Commensalism of *Petrolisthes pata-*  
*gonicus* and *Asteracanthion helianthus*;  
**Bouvier, 11.**

Infusorian and *Pagurus*; **Collin.**

**Parasitism.**

*Rhizocephala* parasitic on *Anouura*  
and *Brachyura*; **Potts, Smith, Geoffrey.**

*Copepoda* on polyps of *Gorgonidae*;  
**Versluys.**

*Arcté naruteensis* sp. n. and Echinid  
*Heterocentrotus mamillatus*; **Coutière, 1.**

Copepod and Mollusc; **Perez, 1.**

*Jaera kroyeri* living on *Sphaeronomu*  
*serratum* (*Isopoda*); **Rossi.**

*Crustacea* in ant's nests; **Roubal,**  
**Scott, 4.**

*Cryptochirus dimorphus* living in  
coral; **Henderson.**

*Copepoda* parasitic on *Corynactis viri-*  
*dis*; **Quidor, 5**; on Polychaete Anneli-  
dids; **Malaquin, McIntosh**; on Ophiurid;  
**Hérouard, 2**; on fish; **Baudouin, 1,**  
**Brian, Evans, 1, Gadd, Giard, 2, Quidor,**  
**3, Wilson.**

*Grapsicepon typus* parasitic on *Grap-*  
*sus strigosus*; **Giard, 2.**

Simultaneous parasitism of *Eutoniscida-*  
*e* (*Isopoda*) and *Rhizocephala* in  
*Eriphia spinifrons* and *Pachygrapsus*  
*narmoratus*; **Smith, Geoffrey.**

Sporozoa parasites of *Crustacea*;  
**Chatton, 1, 2, Léger and Duboscq, 3, 4,**  
**Mercier, Pérez, 1, 2, 3, 4, 5, 6.**

Dinoflagellate parasites of *Copepoda*;  
**Chatton, 3.**

Amoeboid parasite of embryos of  
*Peltogaster*; **Caullery.**

Worm-parasite of *Astacus japonicus*;  
**Pierantoni.**

*Polyzoa* encrusting *Astacus fluviatilis*;  
**Eomnicki.**

(*Lernaecius sprattae* on Sardine;  
**Baudouin, 4.)**

**Defensive processes.**

*Melia tessellata* and *Polydectus cupu-*  
*lifera* (*Brachyura*) bearing Actinians in  
their claws; **Duerden, Richters, Willey.**

Protective colours of *Crustacea*;  
**Gamble and Keeble.**

## VARIATION AND AETIOLOGY.

2623

*Artemia salina*; **Artom, 1, 3**;  
*Scalpellum stearusi*; **Hoek, 1, 2.**

*Chiridothea eutoman*; **Skorikov.**

Large variety of *Branchipus ferox*; **Entz**.

Variation in *Pseudocuma longicornis* and *similis*; **Gilson**.

Variation in *Atyaephyra desmarestii*; **Brozek**.

In *Ligia exotica*; **Goto**.

(Colour variety of *Astacus*; **Bouvier**, 14.)

Lobster with abnormal chelipeds: **Calman**, 4.

Normal replaced by abnormal chelipeds, *Homarus americanus*; **Emmel**, 1.

Abnormal chelipeds in *Nephrops norvegicus*; **Patterson**, 3; in *Cambarus*; **Zeleny**.

Double eye in *Cladocera*; **Largaiolli**, 1.

Albinism in *Carcinus* and *Crangon*; **Ninni**.

## GEOGRAPHICAL. 2627

### LIVING FORMS.

#### General.

Cosmopolitan *Crustacea*; **Zograf**, 1.

#### Europe and Mediterranean Sea and Islands. d

Norway, *Copepoda* 2 gen. n., 19 spp. n.; **Sars**, 3.—*Rhizocephala* 1 gen. n., 2 spp. n.; **Smith**, **Geoffrey**.—*Heterotanaïs* sp. n. (*Isopoda*); **Norman**, 2.

Russia, *Bosminopsis zernowi* (*Cladocera*); **Zykoŋ**, 1.

North Russia, *Cladocera* and *Copepoda* 1 var. n.; **Zykoŋ**, 2.

Finland lakes, *Entomostraca*; **Levander**, 2.

Gulf of Odessa, *Crustacea*; **Kališevskij**.

Volga R., *Mysidae* 1 sp. n.; **Tretjakow**.

Caspian Sea, *Copepoda* 1 sp. n.; **Gadd**.

North Sea, *Copepoda*; **Pearson** and **Breemen**, 1, 2.—*Amphipoda*; **Reibisch**.—*Amphipoda Gammaridea* 1 sp. n.; **Stebbing**, 2.—*Decapoda*; **Appellöf**.

Germany, *Apus caneriformis*; **Köhler**.  
Upper Rhine, *Crustacea*; **Lauterborn**.

Brunswick, *Ostracoda*; **Lienenklaus**.  
British Islands, *Copepoda*; **Sars**, 3.

Channel Islands, *Arctus ursus*; **Wright**.

English Channel, *Gyge branchialis*; **Giard**, 1.

Britain, *Heterotanaïs* sp. n., *Isopoda*; **Norman**, 2.

Britain, *Isopoda*; **Webb** and **Sillem**.

Britain, New to, *Trichoniscus pygmaeus* G. O. Sars; **Bagnall**.

Coasts of Devon and Cornwall, *Crustacea* 3 gen. nn., 4 spp. n., 1 var. n.; **Norman** and **Scott**, 3.

Yarmouth, *Crustacea*; **Patterson**, 1, 2.

Kew, Botanic Gardens, *Crustacea*; **Scourfield**.

Northumberland coast (salt-water pond), *Ostracoda* and *Copepoda* 1 gen. and 2 spp. n.; **Brady**, 2, **Meek**, 1.

Liverpool, *Trichoniscus roseus* (*Isopoda*); **Welch**.

Northamptonshire, *Isopoda*; **Wake**.

Scotland, *Metoponorthus pruinus* (*Isopoda*); **Evans**, 3.

St. Kilda Is., *Crustacea*; **Evans**, 2.

River Forth and estuary, *Crustacea*; **Scott**, 4.

Carlow, *Isopoda*; **Pack-Beresford**.

Irish lakes, *Cladocera* and *Copepoda*; **West**, **W.** and **West**, G. S.

N. E. coast of Ireland, *Schizopoda* 1 fam n., 1 sub fam. n., 1 gen. n., 1 sp. n.; **Holt** and **Tattersall**, 2.

West coast of Ireland, *Caridea*; **Kemp**, 2.—*Macrura*; **Kemp**, 3.—*Amphipoda*, 2 gen. n., 4 spp. n.; **Tattersall**, 1.

Irish Sea, *Copepoda*; **Pearson**.—parasitic *Copepoda*; **Scott**, 2.—*Carida* 2 spp. n.; **Kemp**, 1.

France, Caves of Basses-Alpes, *Crustacea* 1 sp. n.; **Chevreux** vide **Peyerimhoff**.

Ardennes, *Hoploparia granulosa*; **Collet**.

Dauphiné Alps, *Cladocera*; **Kellhack**, 1.

- Italy, *Isopoda* 1 sp. n.; **Budde-Lund, 2.**  
 Italian lakes, *Entomostraca* 1 var. n.; **Largalolli, 2, 3.**  
 Lake Garda, *Bosmina* var. n. (*Cladocera*); **Brehm, 4.**  
 Switzerland, *Cladocera* form. n.; **Stingelin, 2.**—*Copepoda*; **Laroche.**—*Isopoda*; **Carl.**  
 Swiss lakes, *Crustacea*; **Zschokke.**  
 Alpine lakes, *Crustacea* 2 varr. n.; **Brehm, 2, 3, Brehm and Zederbauer, 5, 6, Thiebaud and Favre.**  
 Austrian lakes, *Entomostraca*; **Car.**  
 Bulgaria, *Copepoda*; **Chichkoff.**  
 Mediterranean, *Copepoda*, 1 sp. n.; **Goggio, 2, and Sars, 3.**—*Amphipoda* *Gammaridea* 5 spp. n.; **Stebbing, 2.**—*Cumacea* 5 spp. n.; **Calman, 2.**—*Macrura* 1 var. n.; **Riggio, 2.**  
 (Mediterranean, *Lysonianassidae* spp. n.; **Chevreaux, Cirolana spp. n.; **Dollfus, 1.**)  
 Straits of Messina, *Crustacea* sp. n.; **Riggio, 1.**  
 Adriatic, *Corycaeus* sp.; **Brehm, 1.**  
 Tuscan Archipelago, *Schizopoda*; **Masi, 1.**  
 Naples, *Rhizocephala* 1 sp. n.; **Smith, Geoffrey.**  
 (Cyprus, *Isopoda*; **Dollfus, 2.**)  
 Asia Minor, *Crustacea* 2 spp. n.; **Vávra, 2.**  
 Syria, *Potamonidae* 1 sp. n.; **Rathbun, 6.**  
 (Alboran Isles, *Hyalella* sp. n.; **Chevreaux, 3.**)**
- Asia and Malay Archipelago. *e*  
 China, *Potamonidae* spp. n.; **Rathbun, 6, and de Man, 4.**  
 Mongolia, *Ostracoda* and *Copepoda* 3 spp. and 1 var. n.; **Daday, 3.**  
 Japan, *Ostracoda* 1 sp. n.; **Vávra, 4.**—*Decapoda* spp. n., var. n.; **Bouvier, 9, and Decapoda 5 spp. n.; **de Man, 2.**—*Brachyura* and *Anomura* 2 spp. n.; **Doflein, 2.**—*Isopoda* 2 spp. n.; **Richardson, 3.**  
 Japanese seas, *Acanthophrys* 1 sp. n.; **Bouvier, 6.****
- Liu-Chiu Is., *Potamonidae* 1 sp. n.; **Rathbun, 6.**  
 Siam, *Copepoda* 1 sp. n.; **Daday, 4, 5.**—*Ostracoda* 1 gen. n. 2 spp. n.; **Vávra, 4.**  
 (Indo-China, *Brachyura* spp. n.; **de Man, 6.**)  
 Indo-China, *Potamonidae* spp. n.; **Rathbun, 6.**  
 British India, *Entomostraca* 2 spp. n. 1 var. n.; **Gurney, 2.**—*Palaemon* sp. n.; **de Man, 2.**—*Potamonidae* spp. n.; **Rathbun, 6.**  
 Burma, *Potamonidae* spp. n.; **Rathbun, 6.**  
 Ceylon, *Phyllopoda* and *Copepoda* 2 spp. n.; **Gurney, 1.**—*Cirripedia* 2 spp. n.; **Annandale, 1, 2, 5.**—*Copepoda* 2 genn. n. and 4 spp. n.; **Wilson.**—*Phyllocarida*, *Schizopoda*, *Stomatopoda* 2 spp. n.; **Tattersall, 2.**—*Anomura* 2 spp. n.; **Southwell.**—*Brachyura* 3 genn. n. 14 spp. n. 10 varr. n.; **Laurie.**  
 Malay Archipelago, *Ostracoda* 18 spp. n.; **Müller, 4.**—*Schizopoda* 1 gen. n. 1 sp. n.; **Illig, 1.**—*Isopoda*, *Bopyridae* 1 gen. n., 2 spp. n.; **Nobili, 5.**  
 Malay Peninsula and adjacent islands, *Potamonidae* spp. n.; **Rathbun, 6.**—*Decapoda* 1 sp. n.; **Lanchester.**  
 Sumatra, *Ostracoda* spp. n.; **Vávra, 4.**—*Copepoda* spp. n.; **Daday, 4, 5.**  
 Java, *Ostracoda* spp. n.; **Müller, 1, Vávra, 4.**  
 Indo-Malayan Is., *Copepoda* 2 spp. n.; **Daday, 4, 5.**  
 Malayan Seas, *Moluccas*, *Penella* sp. (*Copepoda*); **Horst.**  
 Philippines, *Potamonidae* spp. n.; **Rathbun, 6.**  
 Persian Gulf, *Decapoda* and *Stomatopoda* 2 spp. n., 2 varr. n.; **Nobili, 1.**
- Africa and Madagascar. *f*  
 (N. Africa, *Atyaephyra desmaresti*; **Bouvier, 15.**)  
 Suez Canal, *Rhizocephala* 1 gen. n., 1 sp. n.; **Smith, Geoffrey.**  
 Erythraea, *Isopoda*, 3 spp. n.; **Nobili, 8.**



- West Africa, *Potamonidae* spp. n.; **Rathbun, 6.**—*Decapoda* 1 sp. n.; **Bouvier, 7.**
- West coast of Africa, *Cirripectida*; **Gravel, 2.**
- Cameroons, *Crustacea*; **Sjöstedt.**
- Spanish Guinea, *Decapoda*; **Nobili, 9.**
- San Thomé Id, *Decapoda* and *Stomatopoda* 1 sp. n.; **Bouvier, 8.**
- Ogowe basin, French Congo, *Alpheidae* sp. n.; **Coutière, 2.**
- East Africa, *Potamonidae* spp. n.; **Rathbun, 6.**
- German East Africa, *Cladocera* 4 spp. n., 1 var. n.; **Weltner.**—*Ostracoda* 1 gen. n., 10 spp. n.; **Vávra, 1.**—*Copepoda* 3 spp. n.; **Mrázek.**—*Isopoda* 10 spp. n.; **Budde-Lund, 1.**—*Decapoda* 9 spp. n., 2 varr. n.; **Hilgendorf.**
- Mozambique coast, *Acanthophrys* 1 var. n.; **Bouvier, 6.**
- Mt. Ruwenzori, *Decapoda* and *Isopoda* 2 spp. n.; **Nobili, 6.**
- African lakes, *Macrura* 2 gen. n. 10 spp. n.; **Calman, 3.**
- South Africa, *Isopoda* 2 spp. n.; **Budde-Lund, 2,** and **Richardson, 3.**—*Potamonidae* spp. n.; **Rathbun, 6.**
- Cape Colony, *Entomostraca* 2 spp. n.; **Sars, 1.**
- Natal, *Copepoda* 1 gen. and sp. n.; **Cooper.**
- S. African seas, *Copepoda* 6 spp. n.; **Cleve.**
- Madagascar, *Potamonidae* spp. n.; **Rathbun, 6,** and **Nobili, 7.**
- Madagascar, *Amphipoda* gen. and sp. n.; **Coutière, 5.**
- Red Sea, *Oxyrhyncha* and *Oxystomata* 1 gen. n., 7 spp. n., 2 varr. n.; **Klunzinger, 1, 2.**—*Decapoda* and *Stomatopoda* 1 var. n.; **Nobili, 2.**—*Bopyridae* *Isopoda* gen. n., spp. n.; **Nobili, 5.**
- (Red Sea, *Caligus* sp. n.; **Brian, 2.)**
- North America.** 9
- (North American *Branchinecta* and their habitats; **Shantz.**)
- Gulf of S. Lawrence, Anticosti Is., *Crustacea*; **Schmitt.**
- United States of America, *Copepoda* 6 spp. n.; **Pearse, 1, 2.**—Distribution of *Cambarus*; **Ortmann, 4:**
- New England, *Decapoda*; **Cushman, 2.**—*Crustacea*; **Rathbun, 2.**
- Rhode Island, N. America, *Copepoda* 3 spp. n.; **Williams.**
- Vineyard Sound, *Ostracoda* 1 gen. n., 10 spp. n.; **Cushman, 1.**
- Pennsylvania, *Cambarus*; **Ortmann, 2.**
- (Western Pennsylvania, *Cambarus* spp.; **Ortmann, 5.)**
- Ohio, *Isopoda*; **Lindahl.**—*Cladocera*; **Gammon.**
- Nebraska, *Cladocera* 1 sp. n., 1 var. n.; **Fordyce, 1, 2.**
- Colorado, *Copepoda* 1 sp. n.; **Marsh.**—*Cladocera* 1 sp. n.; **Birge.**
- California, *Phyllopoda* 1 sp. n.; **Kellogg.**—*Isopoda*; **Richardson, 3.**
- Californian coast, *Ostracoda* 19 spp. n.; **Esterly, 2,** and **Juday.**—*Copepoda* 4 spp. n.; **Esterly, 1.**
- Central and South America and West Indies.** h
- Central America, *Potamonidae* spp. n.; **Rathbun, 6.**
- Costa Rica, *Brachyura* 3 spp. n.; **Rathbun, 4.**—*Amphipoda* 1 sp. n.; **Stebbing, 1.**
- Mexico, *Cambarus* 1 subg. n., 1 sp. n.; **Ortmann, 4.**
- British Honduras, *Cambarus* 1 sp. n.; **Ortmann, 4.**
- Panama, *Isopoda* 1 sp. n.; **Richardson, 2.**
- (West Indies, *Penaeidea* and *Stenopidea* spp. n.; **Bouvier, 13.)**
- Dominica, W. Indies, *Brachyura* 1 sp. n.; **Rathbun, 3.**
- South America, *Isopoda* 5 spp. n.; **Richardson, 3.**
- S. America, *Penaeidea* and *Stenopidea* spp. n.; **Bouvier, 13.**
- South American lakes, *Amphipoda*; **Chevreaux, 2.**
- (Lake Titicaca, *Amphipoda* 1 sp. n.; **Chevreaux, 5.)**

- Venezuela, *Potamonidae* spp. n.; n., 6 spp. n.; Richardson, 4.—*Anomura*  
 Rathbun, 6. and *Brachyura*; Lagerberg.
- Paraguay, *Cladocera* 1 sp. n.; Sub-Antarctic islands, *Schizopoda*  
 Stिंगelin, 1. spp. n.; Illig, 1.
- Colombia, *Potamonidae* spp. n.; Kerguelen, *Ostracoda* 1 sp. n.;  
 Rathbun, 6. Müller, 3.—*Schizopoda* spp. n.; Illig, 1.
- Brazil, *Seyllarides* sp. n.; Rathbun,  
 5.—*Potamonidae* spp. n.; Rathbun,  
 6.
- Argentina, *Potamonidae* sp. n.;  
 Rathbun, 6.

## Atlantic Ocean. l

*Ostracoda* genn. and spp. n.; Müller,  
 3; Vávra, 3.—*Copepoda* 2 genn. n.,  
 10 spp. n.; Wolfenden.—*Schizopoda*  
 spp. n.; Ortmann, 1; Illig, 1.

(Atlantic, *Cirolana* spp. n.; Dollfus, 1.  
 —*Lysianassidae* spp. n.; Chevreux.)—  
*Lysmata seticaudata*; Pérez, 8.—*Genna-*  
*das* 4 spp. n.; Bouvier, 1.—*Halioporus*  
 4 spp. n.; Bouvier, 4, 5.—*Eurydice*  
 sp. n.; *Isopoda*; Norman, 2.

North Atlantic, *Crustacea*; Rathbun,  
 2.

S. Atlantic, *Amphipoda* 1 sp. n.;  
 Woltereck, 2.—*Copepoda* spp. n.;  
 Cleve.

St. Paul and Crozet Is., *Isopoda*  
 2 spp. n.; Budde-Lund, 2.—*Schizo-*  
*poda* sp. n.; Illig, 1.

## Australasia. i

Australia, *Crustacea*; McCulloch, 1.—  
*Isopoda*; Richardson, 3.

Queensland, *Brachyura* and *Anomura*  
 5 spp. n.; Grant and McCulloch.

Victoria, *Crustacea*; Kershaw.—  
*Decapoda* 2 spp. n.: Fulton and Grant,  
 1, 2.

South Australia, *Brachyura* 4 spp. n.,  
 1 var. n.; Baker.

(Port Jackson, *Decapoda* spp. n.;  
 Grant.)

West Australia, *Potamonidae* spp. n.;  
 Rathbun, 6.

New Zealand: *Crustacea*; Chilton,  
 3, 4, 5.—*Entomostraca* 1 gen. n. 3 spp. n.;  
 Brady, 1.—*Ostracoda* 1 sp. n.; Chap-  
 man, 1.—*Isopoda*; Chilton, 1, 2.

Auckland Is., *Isopoda*; Budde-Lund,  
 2.

## Arctic and Antarctic. k, o

Kara Sea, *Amphipoda Gammaridea*  
 1 sp. n.; Stebbing, 2.

Arctic Ocean, *Copepoda*; Sars, 3.

Greenland, *Rhizocephala* gen. n.,  
 sp. n.; Smith, Geoffrey.

Antarctic, *Cladocera* and *Copepoda*  
 1 gen. n., 5 spp. n., 1 var. n.; Ekman.—  
*Ostracoda* 2 spp. n.; Müller, 2.—*Cope-*  
*poda* 5 spp. n.; Quidor, 1, 2.—*Cirri-*  
*pedia* 2 spp. n.; Gruvel, 3.—*Schizopoda*  
 5 spp. n.; Holt and Tattersall, 1.—  
*Amphipoda* 3 genn. n., 7 spp. n.;  
 Chevreux, 1.—4 genn. n., 19 spp. n.;  
 Walker.—*Seba* sp. n. (*Amphipoda*);  
 Walker *vide* Chilton, 6.—*Isopoda* 4 genn.

## Indian Ocean. m

*Cirripedia* 9 spp. n., 1 subsp. n.,  
 2 varr. n.; Annandale, 3, 4.—*Copepoda*  
 2 genn. n., 4 spp. n. Wilson, Cleve.—  
*Leptostraca*, *Schizopoda*, *Stomatopoda*  
 2 spp. n.; Tattersall, 2.—*Schizopoda*  
 genn. and spp. n.; Illig, 1, 2.—*Amphi-*  
*poda* 1 sp. n.; Woltereck, 2.—*Peneidae*  
 2 varr. n.; Alcock.—*Anomura* 2 spp. n.;  
 Southwell.—*Brachyura* 3 genn. n.,  
 14 spp. n., 10 varr. n.; Laurie.—  
*Bopyridae* (*Isopoda*) genn. n., spp. n.;  
 Nobili, 5.

Christmas Island, *Ptychognathus* and  
*Palaemon*; de Man, 1.

Andaman Is., *Cryptochirus dimorphus*  
 sp. n.; Henderson.

## Pacific. n

*Ostracoda* genn. and spp. n.; Müller,  
 3, Juday, Esterly, 1, 2.—*Schizopoda*  
 1 sp. n.; Ortmann, 1.

Tuamotu Is., *Decapoda* and *Isopoda* 5 gen. n., 34 spp. n., 3 varr. n.; Nobili, 3, 4.

Eastern Pacific, *Isopoda* 1 gen. and 1 sp. n.; Richardson, 1.

Hawaiian islands, *Brachyura* and *Macrura* genn., spp. and subspp. n.; Rathbun, 1.—*Copepoda* 1 sp. n.; Daday, 4, 5.

Marcus island, *Crustacea*; Bryan.

Gambier Is., *Alpheidae* 1 sp. n.; Coutière, 1.

#### FOSSIL FORMS.

Palaeozoic, Bohemia, *Ostracoda*; Siemiradski.

Cambrian, China, *Ostracoda* spp. nn.; Walcott.

Silurian, Ludlow, *Crustacea*; Elles and Slater.

Silurian, Holland, *Entomostraca*; Jonker.

Silurian, Canada, *Crustacea*; Whiteaves.

Silurian, New York, *Crustacea*; Clarke and Ruedemann.

Ordovician, Canada, *Ostracoda*; Ami.

Carboniferous, N. Staffordshire, *Crustacea*; Ward.

Carboniferous, Chester, *Crustacea*; Pocock.

Carboniferous, Scotland, *Crustacea*; Peach.

Carboniferous, Scotland, *Ostracoda*; Macnair.

Carboniferous, Kansas, U. S. America, *Ostracoda*; Ulrich and Bassler.

Trias, Britain, *Estheria*; Lomas.

Jurassic, France, *Crustacea*; Méchin.

Purbeck, Dorset, *Ostracoda*; Chapman, 2.

Cretaceous, Norfolk, *Cirripedia* 1 sp. n. 1 var. n.; Woodward.

Lower Cretaceous, Germany, *Crustacea* 5 spp. n.; Harbort.

Lower Cretaceous, Crimea, *Crustacea* 1 sp. n.; Borissiak.

Tertiary, New Jersey, *Brachyura* gen. and sp. n.; Weller.

Tertiary, Belgium, *Crustacea*; Destinez.

Tertiary, Italy, *Ostracoda*; Cappelli.

Tertiary, Italy, *Cirripedia* 5 spp. n. 1 var. n.; Alessandri.

Tertiary, Italy, *Brachyura*; Airaghi.

Tertiary, Hungary, *Decapoda* 1 gen. and sp. n.; Lörenthey.

Eocene, Spain, *Crustacea*; Almera.

Eocene, Sicily, *Brachyura* 1 gen. n. 3 spp. n.; Checchia-Rispoli.

Pliocene, Maryland, U. S. America, *Crustacea*; Clark.

Pleistocene, Nantucket, U. S. America, *Crustacea*, Wilson; Maryland, U. S. America, *Crustacea*; Clark.

Drift, Cheshire, *Cirripedia*; Newton.

### III.—SYSTEMATIC. 2631

#### DECAPODA.

Decapoda of Norway and North Sea, APPELLÖR, Meeresfauna von Bergen, 1906, (113-238, with 2 pls. and 3 maps).

#### Brachyura.

#### OXYRHYNCHA.

*Oxyrhyncha* structure, KLUNZINGER, Spitzkrabben des Roten Meeres. (vii + 91, with 2 pls.).

*Acanthophrys* characters of genus, list of species (486, 487), *harmandi* Japanese Seas (484), *germaini* Cochin China (486-487) spp. n., *longispinus* de Hann *spinosissima* var. n. Mozambique (487, 488), BOUVIER, Bul. Muséum, Paris, 12.—*A. harmandi* sp. n. Seas of Japan. BOUVIER, T.c. (484).

*Achaeus dubia* sp. n. Ceylon. LAURIE, Rep. Pearl Oyster Fish., 5, (367).

*Camposcia retusa* Latr. Red Sea, KLUNZINGER, Spitzkrabben des Roten Meeres, (15, pl. 1, fig. 1).

*Chlorinoides goldsboroughi* sp. n. Hawaiian islands. RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, 23, (881, pl. xiv, fig. 7).

*Cryptopodia pan* sp. n. Ceylon. LAURIE, Rep. Pearl Oyster Fish., 5, (392, pl. 1, fig. 6).

*Cyclax suborbicularis* Stimps. Red Sea. KLUNZINGER, Spitzkrabben des Roten Meeres, (34, pl. 1, fig. 6).

*Cyphocarcinus minutus* A.M.-Edw., description, synonymy, NOBILI, Bul. sci. France Belgique, 40, (109).

*Cyrtomaia smithi* Rathb., described (877, pl. vi, fig. 34, 35), *lamellata* sp. n. Hawaiian islands, (879, fig. 36). RATHBUN, Washington, D.C., Bul. U. S. Com. Fish., 1903, 23.

*Doclea alcocki* sp. n. Ceylon, LAURIE, Rep. Pearl Oyster Fish., 5, (381, pl. i, fig. 5, pl. ii, fig. 2).

*Eurygnome granulosa* sp. n. S. Australian coast, BAKER, Adelaide, S. Aust., Trans. R. Soc., 30, (108, pl. i, fig. 3).

*Halimus convexus* Miers *hendersoni* var. n. (377), *pehlevi* (378, pl. i, fig. 3, 3A), *iramii* (379, pl. i, fig. 4, 4A) spp. n. Ceylon, LAURIE, Rep. Pearl Oyster Fish., 5.

*Harrovia truncata* sp. n. Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, 23, (886, pl. xiv, fig. 8).

*Herbstia corniculata* (27, pl. i, fig. 4), *contiguicornis* (28, pl. i, fig. 5) spp. n. Red Sea, KLUNZINGER, Spitzkrabben des Roten Meeres.

*Heterocrypta petrosa* sp. n. Red Sea, KLUNZINGER, op. cit. (53, pl. ii, fig. 9).

*Hyastenus fultoni* sp. n. Off Port Jackson, GRANT, Sydney, N.S.W., Proc. Linn. Soc., 30, (313, pl. xi, fig. 1).

*Inachus scorpio*, sexual characters affected by *Sacculina* parasite, SMITH, Fauna Neapel, Berlin, 29, (66-76).

*Lambrus, Oncodolambrus, subgen. n., praedator* sp. n. Japan, DE MAN, Ann. Mag. Nat. Hist., London, ser. 7, 17, (400).—*L. leprosus* Nob. (179, pl. ix, fig. 7), *montiger* Nob. (185, pl. xi, fig. 3). Red Sea, NOBILI, Ann. sci. nat. zool., Paris, 4. —*L. validus* de Haan, new to Australia, McCULLOCH, Sydney, N.S.W., Rec. Austr. Mus., 6, (231).

*Liomedon gen. n., (Parthenopidae) pentagonus* sp. n., Red Sea, KLUNZINGER, Spitzkrabben des Roten Meeres, (56-57, pl. ii, f. 11).

*Macrocheira kaempferi*, Sea of Japan, CARRUCCIO, Roma, Boll. Soc. zool. ital., 6, (85-95, with 1 plate).

*Micippa philypa* Herbst, *thalia* Herbst dimorphic, Ceylon, LAURIE, Rep. Pearl Oyster Fish., 5, (384, 385).—*M. platipes* Rüpp., Red Sea, KLUNZINGER, Spitzkrabben des Roten Meeres, (37, pl. i, f. 8).

*Oncodolambrus subgen. n., v. Lambrus.*

*Parahoplophrys nodulosa* Nob., description, NOBILI, Bul. sci. France, Belgique, 40, (106, text fig. 2).

*Paramithrax (Chlorinoides) longispinus* de Haan *bispinosus* var. n. Ceylon, LAURIE, Rep. Pearl Oyster Fish., 5, (383).

*Parathoë rotundata* Miers. Red Sea, KLUNZINGER Spitzkrabben des Roten Meeres, (45, pl. i, f. 7).

*Paratymobus latipes* Hasw. *quadridentata* var. n. S. Australian coast, BAKER, Adelaide, S. Aust., Trans. R. Soc., 30, (107, pl. i, f. 2).

*Parthenope acuta* sp. n. Red Sea, KLUNZINGER, Spitzkrabben des Roten Meeres, (55, pl. ii, f. 10).—*P. nummifera*, (883, pl. xiv, f. 4), *stellata* (884, pl. xv, ff. 1, 2, 7), spp. n. Hawaiian islands, *lamelligera* White, (885, pl. xvii, f. 1), *whitei* A. M.-Edw. (885, pl. xv, f. 5), *calappoides*, Adams and White, (886, pl. xv, f. 6), described, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, 23.

*Schizophrys hilensis* sp. n. Hawaiian islands, RATHBUN, T.c. (882, text fig. 38).

*Simocarcinus camelus* sp. n., *brevirostris, pinnirostris* varr. n. Red Sea, KLUNZINGER, Spitzkrabben des Roten Meeres, (17, 18, pl. i, f. 2).—*S. simplex* Dana *pyramidalus* var. n. Ceylon, LAURIE, Rep. Pearl Oyster Fish., 5, (373).

*Sphenocarcinus carbunculus* sp. n. Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, 23, (879, pl. xiv, f. 6).

*Stenorhynchus ramusculus* sp. n. S. Australian coast, BAKER, Adelaide, S. Aust., Trans. R. Soc., 30, (104, pl. i, f. 1).

*Trigonothir pyramidatus* Hell. Red Sea. KLUNZINGER, Spitzkrabben des Roten Meeres, (19, pl. i, f. 3).

*Xenocarcinus tuberculatus* White *alcocki* var. n. Ceylon, LAURIE, Rep. Pearl Oyster Fish., 5, (371).

## CYCLOMETOPA.

*Actaea*, synopsis of species (247); *kraussi*, Hell (248, pl. x, f. 4); *sabaea* Nob. (254, pl. x, f. 3); *nodulosa*, White (257, pl. x, f. 2); *pisigera* Nob. (259, pl. x, f. 1), descriptions; NOBILI, Ann. sci. nat. zool., Paris, 4.—*A. alcocki* sp. n. Ceylon, LAURIE, Rep. Pearl Oyster Fish., 5, (403).—*A. garretti*, (852, pl. ix, f. 8); *hawaiiensis*, (853, pl. ix, f. 9) spp. n., Hawaiian islands, *nodulosa*, White, described, (853, pl. ix, f. 4); RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, 23.—*A. granulata* Aud. description, NOBILI, Bul. sci. France Belgique, 40, (127).

*Actumnus bonnieri*, description, NOBILI, T.c. (132, pl. vi, f. 32).

*Archias sexdentatus*, Pauls. description, NOBILI, Ann. sci. nat. zool., Paris, 4, (198).

*Banareia villosa* sp. n. Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, 23, (854, pl. ix, f. 15).

† *Callinectes sapidus* Rathb., description, CLARK, Maryland, Geol. Surv., Pliocene and Pleistocene, Baltimore, 1906, (172, pl. xli).

*Calman'a* gen. n. (*Xanthidae*) *prima* sp. n. Ceylon, LAURIE, Rep. Pearl Oyster Fish., 5, (406, 407, pl. i, ff. 12A-C).

*Carcinus moenas albinism*, NINNI, Boll. Naturalista, Siena, 26, (76).

*Carpilodes*, synopsis of species (214), *diodoreus* Nob. Red Sea, NOBILI, Ann. sci. nat. zool., Paris, 4, (216, pl. x, f. 9).—*C. coccineus* (843, pl. viii, f. 4), *virgatus* (844, pl. viii, f. 5), spp. n., Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, 23.

*Charybdis (Goniosoma)*, synopsis of species (194), *heterodon* Nob. Red Sea, NOBILI, Ann. sci. nat. zool., Paris, (196, pl. viii, f. 4).—*C. (Goniosoma) giardi*

Nob., description, NOBILI, Bul. sci. France Belgique, 40, (115, pl. v, f. 23, pl. vii, f. 34).—*C. japonica* A. M. Edw. (pl. xiii, f. 2), *erythrodactyla* (pl. iv), *orientalis* Dana (pl. xiii, f. 1), figured; RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, 23.

*Chlorodius lippus* Nob. Red Sea, NOBILI, Ann. sci. nat. zool., Paris, 4, (263, pl. x, f. 8).

*Chlorodopsis aberrans* sp. n. Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, 23, (859, text fig. 20).

† *Cyamocarcinus angustifrons* Bittner, Eocene, Italy, CHERCCHIA-RISPOLI, Palermo, Giorn. sc. nat. econ., 25, (314, pl. i, ff. 5-8).

*Cyclozanthops angustus* sp. n. Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, 23, (849, f. 6).

*Dacryopilumnus* gen. n., *eremita* sp. n. Tuamotu Is, Polynesia, NOBILI, Bul. Muséum, Paris, 12, (263-264).

*Deckenia mitis* sp. n. German E. Africa, HILGENDORF, Deutsch Ost-Afrika Dekapoden, (24, f. 8).

*Demanis* gen. n., near *Zozymus*, *splendida* sp. n. Ceylon, LAURIE, Rep. Pearl Oyster Fish., 5, (396-397, pl. i, f. 8, and pl. ii, f. 1).

*Eriphia spinifrons* with two parasites, an Isopod and a *Sacculina*, SMITH, Fauna Neapel, Berlin, 29, (76-80).

*Etisus splendidus* sp. n. Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, 23, (850, plates iii and x).

*Eurycarcinus orientalis* A. M. Edw. (239, pl. xi, f. 5), *integrifrons* de Man (290, pl. xi, f. 2), descriptions, NOBILI, Ann. sci. nat. zool., Paris, 4.

*Euxanthus herdmanni* sp. n. Ceylon, LAURIE, Rep. Pearl Oyster Fish., 5, (400, pl. i, ff. 9, 9A).

† *Gemmellarocarcinus* gen. n. (*Canceridae*), *löwentheyi* sp. n. Eocene, Italy, CHERCCHIA-RISPOLI, Palermo, Giorn. sc. nat. econ., 25, (315, 316, pl. i, ff. 1-2).

*Gomezia bicornis* Gray, variation, Ceylon, LAURIE, Rep. Pearl Oyster Fish., 5, (421).

*Goniocaphyra inaequalis* sp. n. Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**, (870, pl. xii, f. 9).

*Halimede hendersoni* Nob., description, NOBILI, Bul. sci. France Belgique, **40**, (123, pl. vi, f. 31).

*Heteropanope pharaonica* Nob., Red Sea, NOBILI, Ann. sci. nat. zool., Paris, **4**, (286, pl. xi, f. 1).

*Leptodius*, synopsis of species, NOBILI, T. c. (239).—*L. molokaiensis*, (847, pl. ix, f. 1), *waiulanus*, (848, pl. viii, f. 9), spp. n. *nudipes* Dana, *gracilis* Dana figured, (848, pl. ix, ff. 2, 3), Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**.

*Liomera*, synopsis of Red Sea species, NOBILI, Ann. sci. nat. zool., Paris, **4**, (221).—*L. praetexta* sp. n. Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**, (844, f. 7).

*Lioxantho haswelli* nom. n. for *Cyclozanthus? punctatus* Hasw., FULTON and GRANT, Melbourne, Proc. R. Soc. Vict., **19**, (7).

*Lophactaea*, synopsis of Red Sea species, NOBILI, Ann. sci. nat. zool., Paris, **4**, (230).

*Lophozomyus intonsus* described, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**, (846, pl. viii, f. 8).

*Lupa aburatsubo* sp. n. Japan, DOFLEIN, Verh. D. zool. Ges., Leipzig, **16**, (71).

*Lupocyclus quinquedentatus* sp. n. Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**, (869, pl. xii, f. 7).

*Lybia*, synopsis of Indo-Pacific species, *denticulata* Nob., Red Sea, NOBILI, Ann. sci. nat. zool., Paris, **4**, (294, pl. viii, f. 6).

*Melia tessellata* Latr. bearing Actinians in its claws, Hawaiian Islands and Ceylon, DUERDEN, London, Proc. Zool. Soc., **1905**, (497-506); RICHTERS, Zool. Beob., Frankfurt a. M., **47**, (225-228); WILLEY, Spolia Zeylan., **3**, (224-226).

*Menippe convexa* Rathb. described, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**, (861, pl. xi, f. 4).

† *Microcorystes* gen. n. (near *Corystes*), *latifrons* sp. n. Eocene, Hungary, LÖRENTHEY, Math. Termt. Ért., Budapest, **22**, 1904, (161).

*Micropanope sexlobata* sp. n. Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**, (856, pl. ix, f. 13).

*Neptunus*, synopsis of species, NOBILI, Ann. sci. nat. zool., Paris, **4**, (189).—*N. (Hellenus) arabicus* Nob. description, NOBILI, Bul. sci. France Belgique **40**, (115, pl. v., f. 22).—*N. euglyphus* sp. n. (413), *hastatoides* Fab. *unidens* var. n. (414), *longispinosus* Dana, *bidens* var. n. (415), *dubia* sp. n. (416), Ceylon, LAURIE, Rep. Pearl Oyster Fish., **5**.

*Parapleurophrycooides* gen. n. *roseus* sp. n. Tuamotu Is., Polynesia, NOBILI, Bul. Muséum, Paris, **12**, (264).

(*Parathelphusa paviei* sp. n. Laos, MAN, Mission Pavie, **3**, (320, pl. xvii, f. 4).)

*Parathranites hexagonum* (867, pl. xii, f. 3), *latibrachium* (868, text-fig. 26), spp. n. Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**.

† *Phlyctenodes depressus* Edw. figured, AIRAGHI, Milano, Atti. Soc. ital. sc. nat., **44**, (205, pl. iv, f. 3).—*P. krennerei* Lörenthey, Eocene, Italy, CHECCHIARISPOLI, Palermo, Giorn. sc. nat. econ., **25**, (310, pl. i, f. 10).

*Phymodius laysani* sp. n. Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**, (858, pl. xii, f. 8).

*Pilodius armiger* Nob., Red Sea, NOBILI, Ann. sci. nat. zool., Paris, **4**, (267, pl. viii, f. 5).—*P. flavus* Rathb. described, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**, (860, fig. 21).

*Pilumnus forskalii* Edw. (275, pl. x, f. 5), *propinquus* Nob. (277, pl. ix, f. 7), *spongiosus* Nob. (280, pl. x, f. 6), *schrenkii* Pauls. (283), descriptions, NOBILI, Ann. sci. nat. zool., Paris, **4**.—*P. nuttingi* (862, pl. xi, f. 8), *acutifrons* (863), *taeniola* (864, pl. xi, f. 3), spp. n. Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**.—*P. parvulus*, *merodontatus* spp. n. Tuamotu Is., Polynesia, NOBILI, Bul. Muséum, Paris, **12**, (263).—*P. pilosus* sp. n.

Victoria, FULTON and GRANT, Melbourne, Proc. R. Soc. Vict., **19**, (7, pl. iv, ff. 1-4).—*P. spinicarpus* sp. n. Masthead Reef, Queensland, GRANT and McCULLOCH, Sydney, N.S.W., Proc. Linn. Soc., **31**, (15, pl. i, f. 2).—*P. trichophoroides* de Man (134), *longicornis* Hilgdt. (135), *savignyi* Hell. (138), *propinquus* Nob. (140), descriptions, NOBILI, Bul. sci. France Belgique, **40**.

*Platepistoma* gen. n. (*Portunidae*)  
*macrophthalmum* sp. n. Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**, (876, fig. 33).

*Platyozius perpusillus* sp. n. Tuamotu Is., Polynesia, NOBILI, Bul. Muséum, Paris, **12**, (264).

*Polydectus cupulifera* Latr. bearing Actinians in its claws, Hawaiian islands, DUERDEN, London, Proc. Zool. Soc., **1905**, (506); RICHTERS, Zool. Beob., Frankfurt a. M., **47**, (225-228).

*Portunus pubescens* Dana (pl. xiv, f. 1), *granulatus* A. M. Edw. (pl. xii, f. 2), *orbicularis* Richt. (pl. xii, f. 4), *longispinosus* Dana (pl. xii, f. 6), figured, *macrophthalmus* (871, pl. xii, f. 5), sp. n. Hawaiian islands, RATHBUN, Washington, D.C., Bull., U. S. Com. Fish., 1903, **23**.—*P. depurator* Leach with Gregarino parasites, LÉGER and DUBOSQ, Paris, C.-R. soc. biol., **60**, (1001-1003).

*Potamocarcinus chaffanjonii* Orinoco (311, pl. xvi, f. 2), *guatemalensis*, Guatemala (313, pl. xvi, f. 7), spp. n. RATHBUN, Nouv. Arch. Muséum, Paris, **7**.

*Potamonidae*, classification and descriptions of species, RATHBUN, op. cit. sér. 4, **6**, 1904, (225-312, pls. ix-xviii); **7**, (159-321, pls. xiii-xxii); **8**, (33-122); catalogue, Bul. Muséum, Paris, 1906, (369-376). New species only recorded.

*Potamon* spp. characters, DE MAN, Zool. Jahrb., Syst., **23**, (743-760).—*P. setiger* Syria (258, pl. ix, f. 2), *shensiensis* China (262, pl. ix, f. 8), *dauidi* China (264, pl. ix, f. 3), *mindanaensis* Philippines (268, pl. x, f. 5), *kinabaluensis* Borneo (269, pl. x, f. 2), *koolooensis* N. India (270, pl. x, f. 1), *paludosus* Siam (272, pl. x, f. 4), *brousinichei* Cochlin-China (272, pl. x, f. 6), *palustris* Laos (273, pl. x, f. 3), *manii* Siam (274, pl. xi, f. 6), *tamanti* (279, pl. xi, (N-9720 I)

f. 8), *rangoonensis* Burma (279, pl. xi, f. 2), *moololeyensis* Tenasserim (283), *luangprabangensis* (281, pl. xi, f. 9), *orleansi* (282, pl. xi, f. 7), *laosensis* (285, pl. xi, f. 3), *lacunifer* (286, pl. xi, f. 1), Indo-China and Siam, *wagrakarovensis* Mysore (292, pl. xii, f. 4), *bouvieri* India (293, pl. xii, f. 5), *nigrens* W. Africa (295, pl. xii, f. 8), *lumbloti* (297, pl. xii, f. 10), *grandidieri* (298, pl. xii, f. 11), *bombetokensis* (298, pl. xii, f. 6), Madagascar, *antipoloensis* (301, pl. xiii, f. 4), *mistio* (302, pl. xiii, f. 3), Philippines, *koatenensis* China (308, pl. xiii, f. 8), *montanoanus* Philippines (309, pl. xiii, f. 7), *thagatensis*, Tenasserim (296), *inornatus* Siam (311, pl. xiv, f. 1), spp. n. RATHBUN, Nouv. Arch. Muséum, Paris, **6**.—(*P. (Potamon) cochinchinense* sp. n. Cochinchina, DE MAN, Mission Pavie, **3**, (323, pl. xviii, f. 5).)—*P. (Potamon) sidneyi* Natal, **7**, (165), **6**, (pl. xiv, f. 5), *luoboensis* Congo, **7**, (166), **6**, (pl. xiv, f. 2), *regnierii* W. Africa, **7**, (168), **6**, (pl. xiv, f. 3), *lirrangensis*, French Congo, **7**, (169), **6**, (pl. xiv, f. 8), *didieri*, E. Africa, **7**, (170), **6**, (pl. xiv, f. 9), *freyei*, W. Australia, **7**, (175), **6**, (pl. xv, f. 5), *renongensis*, Malay Peninsula, **7**, (176), *dybowski*, W. Africa, **7**, (177), **6**, (pl. xv, f. 3), *tambelanensis*, Tambelan Is., **7**, (182), **6**, (pl. xv, f. 4), *pobeguini*, Congo, **7**, (195), **6**, (pl. xvi, f. 8), spp. n.; *ambiguus*, **7**, (171), *biballensis* (176), *capelloanus* (179), *jacquemonti* (185), nomm. n. RATHBUN, Nouv. Arch. Muséum, Paris.—*P. (Potamon) aloysii-sabaudiae* sp. n. Mt. Ruwenzori, NOBILI, Torino, Boll. Musei Zool. Anat., **21**. No. 544 (1)—*P. (Paratelphusa) improvisum* Lanch. (f. 1), *sex-punctatum* sp. n. (f. 2), Malay Peninsula, LANCHESTER, Fasc. Malay. Zool., **3**, (129).—*P. (Paratelphusa) endymion* sp. n. China, DE MAN, Zool. Anz., **30**, (35-36).—*P. (Paratelphusa) faxoni*, Siam (251, pl. xiv, f. 8), *reguensis*, Burma (260, pl. xiv, f. 3), *antongilensis*, Madagascar (265, pl. xii, f. 5), spp. n.; *woodmasoni* nom. n. for *edwardsi* Wood-Mason; RATHBUN, Nouv. Arch. Muséum, Paris, **7**.—*P. (Geotelphusa) sakamotoanus* Liu-Chiu Is., **7**, (206), **6**, (pl. xviii, f. 6), *agassizii* N. E. Australia, **7**, (211), **6**, (pl. xviii, f. 2), *araneus* Indo-China, **7**, (214), *sikkimensis* Sikkim, **7**, (219), **6**, (pl. xviii, f. 7), *perrieri* Congo, **7**, (222), **6**, (pl. xviii, f. 11), spp. n. RATHBUN, Nouv. Arch. Muséum, Paris.—*P. (Geo-*

*thelphusa*) *ankaraharae*, sp. n. Madagascar, NOBILI, Torino, Boll. Musei zool. anat., 21, No. 532, (1-4, fig.).

*Pseudothelphusa propinqua* (280, pl. xv, f. 11), *proxima* Guatemala, (281, pl. xv, f. 10), *venezuelensis* Venezuela, (281, pl. xv, f. 6), *digueti* Mexico, (284, pl. xvii, f. 8), *simoni* Venezuela, (291), *wymani* Surinam, (291), *nelsoni* Mexico, (293), *similis*, (295, pl. xvii, f. 4), *cobanensis*, (296, pl. xvii, f. 5), *grallator*, (297, pl. xvii, f. 6), *complanata*, (303, pl. xv, f. 3), Guatemala, *angusta* Brazil, (306, pl. xv, f. 7), *buenaaventurensis* Colombia, (307), **spp. n.** RATHBUN, Nouv. Arch. Muséum, Paris, 7.

*Telphusa*, key to E. African **spp.**, (7), *suprasulcata*, (8, f. 5), *irragoroensis*, (10), *infravallata*, (12, f. 2), *reichardi*, (13), *bipartita*, (15), *neumannii*, (18, f. 6), *pilosa*, (19), **spp. n.** German E. Africa; *hilgendorfi* Pfeff., (9, f. 3), *platycentron* Hilg., (11, f. 4), HILGENDORF, Deutsch Ost-Afrika Dekapoden.

*Thalamita*, synopsis of species, NOBILI, Ann. sci. nat. zool., Paris, 4, (201).—*T. auanensis* sp. n. Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, 23, (874, pl. xii, f. 1).—*T. bouvieri*, *seurati*, *minuscule* **spp. n.**, *philumnoides gatavakensis* var. n., Tuamotu Is., Polynesia, NOBILI, Bul. Muséum, Paris, 12, (262).—*T. prymna* Herbst *annectans* var. n. Ceylon, LAURIE, Rep. Pearl Oyster Fish., 5, (418).

*Trichodaetylus edwardsi* nom. n. for *dentatus* Edw., 8, (40); sub-genus *Valdivia*, *thayeri* Brazil, 8, (45), 7, (pl. xviii, f. 11), *tifucanus* Brazil, 8, (46), 7, (pl. xix, f. 3), *venezuelensis* Venezuela, 8, (47), 7, (pl. xix, f. 10), *fazoni*, 8, (49), 7, (pl. xviii, f. 10), *hartii*, 8, (55), 7, (pl. xix, f. 9), *bourgeti*, 8, (56), 7, (pl. xviii, f. 4), Brazil, **spp. n.** RATHBUN, Nouv. Arch. Muséum, Paris.—*T. (Dilocarcinus) argentinianus* Argentine, 8, (60), 7, (pl. xx, f. 5, 6), *gurupensis* Brazil, 8, (64), 7, (pl. xx, f. 7), **spp. n.** RATHBUN, op. cit.

*Xanthias flavescens*, (855, pl. ix, f. 11), *canaliculatus*, (856, pl. ix, f. 12), **spp. n.** Hawaiian islands, *minutus* Rathb. described, (855, pl. ix, f. 14), RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, 23.

*Xantho lacunosus* sp. n. Hawaiian islands, RATHBUN, T.c., (847, pl. viii, f. 6).

*Xanthodius biunguis* sp. n. Hawaiian islands, RATHBUN, T.c., (849, pl. viii, f. 10).

† *Xanthopsis kressenbergensis* figured, AIRAGHI, Milano, Atti soc. ital. sc. nat., 44, (206, pl. iv, ff. 4, 5).

*Zozymus gemmula* Dana *ceylonica* var. n. Ceylon, LAURIE, Rep. Pearl Oyster Fish., 5, (395, pl. i, f. 7).

## CATOMETOPA.

*Cardisoma armatum* Herkl. characters. BOUVIER, Bul. Muséum, Paris, 12, (497).

*Cyclograpsus lophopus* Nob. Red Sea, NOBILI, Ann. sci. nat. zool., Paris, 4, (321, pl. xi, f. 4).

*Elamena truncata*, South Australian coast, BAKER, Adelaide, S. Aust., Trans. R. Soc., 30, (112, pl. ii, f. 2).

*Eurytium tristani* sp. n. Costa Rica, RATHBUN, Washington, D.C., Proc. Biol., 19, (100).

† *Galenopsis schopeni* sp. n. Eocene, Italy, CHECOHIA-RISPOLI, Palermo, Giorn. sc. nat. econ., 25, (320, pl. i, ff. 3, 4).

*Gecarcinidae*, habits, GRAVIER, Bul. Muséum, Paris, 12, (498).

*Gelasimus tangeri* autotomy and regeneration of chela, BAUDOUIN, Rev. sci., Paris, ser. 5, 6, (293-300); and Ann. sci. nat. zool., sér. 9, 3, (1-33).

*Grapsus strigosus longitarsis* Dana described, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, 23, (838, pl. viii, f. 1).

*Hymenosoma rostratum* S. Australian coast, BAKER, Adelaide, S. Aust., Trans. R. Soc., 30, (114, pl. iii, f. 2).

*Litocheira glabra* sp. n. S. Australian coast, BAKER, T.c., (110, pl. ii, f. 1, pl. iii, f. 3).

*Macrophthalmus consobrinus* sp. n. Tuamotu Is., Polynesia, NOBILI, Bul. Muséum, Paris, 12, (265).—*M. latreillei* variation, Ceylon, LAURIE, Rep. Pearl Oyster Fish., 5, (427, pl. ii, f. 3).

*Manella* gen. n. (*Palicidae*) *spinipes* sp. n. Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, 23, (837, pl. vii, f. 6).



*Mertonia* gen. n. (*Rhizopinae*) *lanka* sp. n. Ceylon, LAURIE, T.c., (423, pl. i, ff. 11a, b).

*Metaplex hirsulimana* sp. n. Queensland, GRANT and McCULLOCH, Sydney, N.S.W., Proc. Linn. Soc., **31**, (21, pl. i, f. 3).

*Ocypoda rotundata arabica* var. n. Persian Gulf, NOBILI, Bul. sci., France Belgique, **40**, (152, pl. v, f. 26).

*Ostracoteres* synopsis of species, NOBILI, Ann. sci. nat. zool., **4**, (299).—*O. spondyli* description, NOBILI, Bul. sci. France Belgique, **40**, (149, pl. v, f. 24, pl. vi, f. 33).

*Pachygrapsus marmoratus* with two parasites, an Isopod and a *Saccidina*, SMITH, Fauna Neapel, Berlin, **29**, (80, 81).

*Palicus fisheri* (835), *oahuensis* (836), spp. n. Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**, (pl. vii, ff. 4, 5).—*P. jukesi* Ceylon, LAURIE, Rep. Pearl Oyster Fish., **5**, (430, pl. i, f. 12).

*Paranotonyx curtipes* Red Sea, NOBILI, Ann. sci. nat. zool., **4**, (298, pl. viii, f. 7).

*Pilumnoplax cooki* sp. n. Hawaiian islands, RATHBUN, Washington, D.C., Bull., U. S. Com. Fish., 1903, **23**, (835, pl. vii, f. 3).

*Pinnoteres*; synopsis of species (302), *borradalei* nom. n. for *tenipes* Borradaile (306), *maindroni*, (306, pl. viii, f. 8), NOBILI, Ann. sci. nat. zool., **4**.—*P. margaritiferae* sp. n. Ceylon, LAURIE, Rep. Pearl Oyster Fish., **5**, (424).—*P. perezi* description, NOBILI, Bul. sci. France Belgique, **40**, (147, pl. v, f. 25).

*Plagusia depressa*, key to varieties, LAURIE, Rep. Pearl Oyster Fish., **5**, (429).

*Ptychognathus*; revision of the genus (541-544), *pusillus* Heller (537-541, pl. xvii, ff. 1-5), Christmas Island, DE MAN, London, Proc. Zool. Soc., 1905.

*Pseudorhombila octodentata* sp. n. Dominica, W. Indies, RATHBUN, Washington, D.C., Proc. Biol. Soc., **19**, (91).

*Sarmatium faxoni* sp. n. Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**, (841, pl. vii, f. 1).

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*Sesarma elegans* Herkl. Spanish Guinea, NOBILI, Madrid, Mem. soc. esp. hist. nat., **1**, (314, pl. viii, f. 2).—*S. joussecaumei* Nob. Red Sea, NOBILI, Ann. sci. nat. zool., **4**, (323, pl. viii, f. 9).—*S. rhizophorae* (99), *biolleyi* (100), spp. n. Costa Rica, RATHBUN, Washington, D.C., Proc. Biol. Soc., **19**.

*Trichia australis* sp. n. S. Australian coast, BAKER, Adelaide, S. Aust., Trans. R. Soc., **30**, (115, pl. iii, f. 1).

#### OXYSTOMATA.

Structure of *Oxystomata*; KLUNZINGER, Spitzkrabben des Roten Meeres, (vii+91, with 2 pls.).

*Calappa gallus*, Red Sea, KLUNZINGER, T.c. (61, pl. ii, f. 14); dimorphism, LAURIE, Rep. Pearl Oyster Fish., **5**, (354).

*Cryptocnemus crenulatus* sp. n., Queensland, GRANT and McCULLOCH, Sydney, N.S.W., Proc. Linn. Soc., **31**, (25, pl. ii, f. 2).—*C. tuberosus* sp. n., Red Sea, KLUNZINGER, Spitzkrabben des Roten Meeres, (79, pl. ii, f. 13).

(*Cymonomops similis* sp. n. off Port Jackson, GRANT, Sydney, N.S.W., Proc. Linn. Soc., **30**, (315, pl. x, f. 1).)

*Ebalia*; synopsis of species (155), *granulata* Rupp. (155, pl. ix, f. 1); *abdominalis* Nob. (157, pl. ix, f. 2); *lacertosa* (159, pl. ix, f. 3), NOBILI, Ann. sci. nat. zool., **4**.—*E. jordani* sp. n. Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**, (889, pl. xv, f. 3).

*Ethusa mascarone hawaiiensis* subsp. n. Hawaiian islands, RATHBUN, T.c. (891, pl. xv, f. 4).

†*Hepaticiscus distefanoi* sp. n. Eocene, Italy, CHECCHIA-RISPOLI Palermo, Giorn. sc. nat. econ., **25**, (323, pl. i, ff. 9-13).

*Heteronucia venusta* sp. n. Tuamotu Is. Polynesia, NOBILI, Bul. Muséum, Paris, **12**, (260).

*Leucosia* synopsis of species, NOBILI, Ann. sci. nat. zool., **4**, (165).—*L. longifrons* (97), *margaritata* (99), *hilaris* (100, pl. vi, f. 29), descriptions, NOBILI, Bul. sci. France Belgique, **40**.

*Lithadia sculpta* Haswell *aglypha* var. n. Ceylon, LAURIE, Rep. Pearl Oyster Fish., **5**, (358).

*Matuta banksii* Red Sea, KLUNZINGER, Spitzkrabben des Roten Meeres, (65, pl. ii, f. 12).

*Mursia hawaiiensis* described (887, pl. xviii, ff. 324), *spinimanus* sp. n. Hawaiian islands, (888, pl. xvi, f. 1), RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, 23.

*Myra*; synopsis of species, NOBILI, Ann. sci. nat. zool., 4, (164).—*M. affinis* description. NOBILI, Bul. sci. France Belgique, 40, (95).

*Nucia*; synopsis of species *tuberculosa* description, NOBILI, Ann. sci. nat. zool., 4, (161, pl. ix, f. 6).—*N. rosea* sp. n. Tuamotu Is. Polynesia, NOBILI, Bul. Muséum, Paris, 12, (261).

*Nursia jousseaumei*, Red Sea, NOBILI, Ann. sci. nat. zool., 4, (151, pl. ix, f. 4).—*N. mimetica* sp. n. Tuamotu Is. Polynesia, NOBILI, Bul. Muséum, Paris, 12, (261).

*Paramithrax sternocostulatus* (28, pl. iii, f. 2); *coppingeri* (29, pl. ii, f. 3); synonymy, GRANT and McCULLOCH, Sydney, N.S.W., Proc. Linn. Soc., 31.

*Philyra* synopsis of species, NOBILI, Ann. sci. nat. zool., 4, (168).—*P. adamsi*. Ceylon, LAURIE, Rep. Pearl Oyster Fish., 5, (364, pl. i, f. 1).—*P. granigera* description. NOBILI, Bul. sci. France Belgique, 40, (102, pl. vi, f. 30).

*Randallia distincta* described (890, pl. xvi, ff. 2, 3, *gilberti* sp. n. Hawaiian islands (890, pl. xvi, f. 4), RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, 23.

†*Ranina reussi*, *bittneri*, figured and compared, AIRAGHI, Milan., Atti soc. ital. sc. nat., 44, (203, pl. iv, ff. 1, 2).

*Tlos angulatus* sp. n. Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, 23, (889, pl. xvi, f. 5).—*T. havelocki* sp. n. Ceylon, LAURIE, Rep. Pearl Oyster Fish., 5, (357, pl. i, f. 2).

#### DROMIACEA.

*Conchacetes andamanicus*. Ceylon, characters, LAURIE, Rep. Pearl Oyster Fish., 5, (353).

*Cryptodromia granulata* description, NOBILI, Ann. sci. nat. zool., 4, (147, pl. ix, f. 3).

*Dieranodromia*; characters of species, BOUVIER, Bul. Muséum, Paris, 12, (481, 482).

*Dromia intermedia* sp. n. Ceylon, LAURIE, Rep. Pearl Oyster Fish., 5, (351).

(*Latreillopsis petterdi* sp. n. off Port Jackson. GRANT, Sydney, N.S.W., Proc. Linn. Soc., 30, (317, pl. x, f. 2).)

#### INCERTAE SEDIS.

*Cryptochirus dimorphus* sp. n. (*Hapalocarcinidae*) Andaman Is., HENDERSON, Ann. Mag. Nat. Hist., London, 18, (214 pl. viii).

†*Tetracarcinus* gen. n. Systematic position not indicated by describer, *subquadratus* sp. n. Cliffwood clay, New Jersey, WELLER, J. Geol., Chicago, Ill., 13, (328).

#### Anomura.

##### GALATHEIDEA.

*Ethusa japonica* sp. n. Japan, DO-FLEIN. Verh. D. Zool. Ges. Leipzig, 16, (71).

*Galatheidæ*; habits, GALLOWAY and FLEURE. Rep. Brit. Ass., 1906, (608-610).

*Galathea*; key to Australian, GRANT and McCULLOCH, Sydney, N.S.W., Proc. Linn. Soc., 31, (43-52, pl. iv); synopsis of species.—*G. humilis* (124), *aegyptiaca* (126, pl. vii, f. 3), *brevimana*, *longimana* (128), descriptions, NOBILI, Ann. sci. nat. zool., 4.—*G. intermedia* synonymy, NORMAN and SCOTT, Crustacea of Devon and Cornwall (11).—*G. megalochira* sp. n. Tuamotu Is. Polynesia, NOBILI, Bul. Muséum, Paris, 12, (260).—*G. strigosa* structure of hepato-pancreas, GUIEYSSE, Paris, Bul. soc. philom., 8, (97-102).—*G. whiteleggii* sp. n., Port Jackson, Australia, GRANT and McCULLOCH, Sydney, N.S.W., Proc. Linn. Soc., 31, (45, pl. iv, f. 2).

*Munida gregaria* compared with *subrugosa*, LAGERBERG, Schwed. Südpolar-Exped., 5, Lief. 7, (7-10, pl. i, 4-7).—*M. japonica* (221), *alcocki* sp. n. (222). Ceylon, SOUTHWELL, Rep. Pearl Oyster Fish., 5.

*Pachycheles ornatus* sp. n. San Thomé Id., BOUVIER, Bul. Muséum, Paris, 12, (494).—*P. sculptus* description,

NOBILI, *Bul. sci., France, Belgique*, **40**, (67).

*Petrolisthes*; synopsis of species, NOBILI, *Ann. sci. nat. zool.*, **4**, (129).—*P. patagonicus* commensal with *Asteracanthion helianthus*, at Valparaiso, BOUVIER, *Paris, Bul. soc. ent.* 1906, (28, 29).

*Porcellana hornelli* sp. n. (*Porcellanidae*). Ceylon, SOUTHWELL, *Rep. Pearl Oyster Fish.*, **5**, (218, f. 1).—*P. inaequalis* description, NOBILI, *Bul. sci. France Belgique*, **40**, (74, pl. v, f. 18).

*Polyonyx*; synopsis of species (136), *pedalis* Nob. (137, pl. viii, f. 3); *denticulatus*, Pauls. (138) descriptions; NOBILI, *Ann. sci. nat. zool.*, **4**.—*P. paucidens* (70, pl. v, f. 16); *pugillator* (71, pl. v, f. 17, pl. vi, f. 28), descriptions, NOBILI, *Bul. sci. France Belgique*, **40**.

*Linn. Soc.*, **30**, (319, pl. xi, f. 3).—*P. jousseaumei perspicax* var. n. Persian gulf, NOBILI, *Bul. sci., France, Belgique*, **40**, (87).—*P. mauritanica* sp. n. Coast of N. W. Africa, BOUVIER, *Bul. Muséum, Paris*, **12**, (186, f. 1).

*Pagurus*; synopsis of species, NOBILI, *Ann. sci. nat. zool.*, **4**, (120).

*Paralomis granulosa* description, LAGERBERG, *Schwed. Südpolar-Exped.*, **5**, *Lief.* 7, (14–17, pl. i, f. 10).

*Troglopagurus*; synopsis of species (80), *persicus* description (78), NOBILI, *Bul. sci. France Belgique*, **40**.

### Macrura.

Larvae of *Macrura*; COUTIÈRE, *Paris, C.-R. Acad. sci.*, **142**, (847–849); NOBILI, *Bul. sci. France, Belgique*, **40**, (35).

### PAGURIDEA.

*Anapagurus polymesiensis* sp. n. Tuamotu Is., NOBILI, *Bul. Muséum, Paris*, **12**, (260).—*A. bonnieri* description, NOBILI, *Bul. sci. France Belgique*, **40**, (89, pl. v, f. 19).

*Calcinus rosaceus* description, NOBILI, *T.c.* (84, pl. v, f. 21).

*Alibanarius*; synopsis of Red Sea species, NOBILI, *Ann. sci., nat. zool.*, **4**, (115).

*Caenobita rufescens* habits, GRAVIER, *Bul. Muséum, Paris*, **12**, (499); compared with *C. rugosa*, BOUVIER, *T.c.* (493).

*Diogenes*; synopsis of species, NOBILI, *Ann. sci. nat. zool.*, **4**, (118).—*D. capricorneus* sp. n. Queensland, GRANT and McCULLOCH, *Sydney, N.S.W., Proc. Linn. Soc.*, **31**, (35, pl. iii, f. 3).—*D. pugillator* synonymy, NORMAN and SCOTT, *Crustacea of Devon and Cornwall*, (9).

*Eupagurus cavicarpus* Pauls. description, NOBILI, *Ann. sci. nat. zool.*, **4**, (123).—*E. forceps* claws figured, LAGERBERG *Schwed. Südpolar Exped.*, **5**, *Lief.* 7, (2–4, pl. i, ff. 1–33).—*E. hedleyi* nom. n. = *E. kirki*, Miers, GRANT and McCULLOCH, *Sydney, N.S.W., Proc. Linn. Soc.*, **31**, (37).—*E. maorus* sp. n. Tuamotu Is., *Polynesia*, NOBILI *Bul. Muséum, Paris*, **12**, (259).

(*Paguristes aciculus* sp. n. off Port Jackson, GRANT, *Sydney, N.S.W., Proc.*

### NEPHROPSIDEA.

*Astacus*; extermination by disease, restocking rivers, DROUIN DE BOUVILLE, *Nancy, Bul. soc. sci.*, **7**, (28–132).—*A. fluviatilis* incrustated with a Polyzoön, ŁOMNICKI, *Kosmos, Lwów*, **31**, (249–256); growth, DRÖSCHER, *Fischereiztg. Neudamm*, **9**, (113–117, 133–137).—(*A. fluviatilis* var. *torrentium* colour variety, BOUVIER, *Paris, Bul. soc. ent.*, **1904**, (250–255).)—†*A. antiquus* sp. n. Upper Wealden Germany; HARBORT, *Berlin, Abh. geol. Landesanst.*, **45**, (20, pl. i, f. 1 and pl. xi, f. 3).

*Cambarus*; anatomy of annulus ventralis, ANDREWS, *Wood's Holl, Mass. Mar. Biol. Lab. Bull.*, **10**, (122–137); and Boston, *Mass., Proc. Soc. Nat. Hist.*, **32**, (427–480, 1 pl.).—*C. spp.*, descriptions, local distribution in Pennsylvania, ORTMANN, *Pittsburg Pa. Mem. Carnegie Mus.*, **2**, (343–524, pls. A, B, 39–43).—*C. affinis*, egg-laying habits, ANDREWS, *Amer. Nat. Boston, Mass.*, **40**, (343–356).—*C. (Procambarus) pilosimanus* sp. n. British Honduras (6), *cubensis* SAUSS., male genitalia (11), ORTMANN, *Washington, D.C., Proc. Acad. Sci.*, **8**.—*C. viegmanni* description, ORTMANN, *T.c.* (15).

(*Cambarus monogalensis* sp. n. Pennsylvania, ORTMANN, (395–398), *Pittsburgh, Pa., Ann. Carnegie Mus.*, **3**, 1905.)

*Enoplometopus occidentalis* described, RATHBUN, *Washington, D.C., Bull. U.S. Con. Fish.* 1903, **23**, (900, pl. xvii, f. 2).

†*Eryma sulcata* sp. n. Lower Cretaceous Germany, HARBORT, Berlin, Abh. geol. Landesanst. **45**, (15, pl. i, f. 11, pl. xi, f. 4).

†*Hoploparia aspera* sp. n. Upper Wealden Germany, HARBORT, T.c. (17, pl. ii, ff. 5, 6).—†*H. triboleti* sp. n. Lower Cretaceous Crimea, BORISSIAK, St. Peterburg, Bull. Com. géol., **23**, (412, 420, pl. xiii, f. 1).—*H. granulosa* in the Ardennes; COLLET, Reims, Bul. soc. sci. nat., **12**, (32-33, pl.).

*Homarus americanus*; rate of growth, HADLEY, **2**, Wood's Holl, Mass., Mar. Biol. Lab. Bull., **10**, (233-241).—*H. gammarus*, with symmetrical chelae, CALMAN, London, Proc. Zool. Soc., **1906**, (633, f. 110).

*Nephrops norvegicus* abnormal claw, PATTERSON, Norwich, Trans. Nat. Soc., **8**, (319, pl.).

†*Palaeno dentatus* described; BORISSIAK, St. Peterburg, Bull. Com. géol., **23**, (416, 422, pl. xiii, f. 2).

*Paracambarus* subg. n. (1), *paradoxus* sp. n. Mexico (3), ORTMANN, Washington, D.C., Proc. Acad. Sci., **8**.

†*Pseudoglyphæa etalloni* description, MÉCHIN, Nancy, Bul. soc. sci., **6**, (29-31, pl. i).

*Thamastocheles zaleucus*, male described, DOFLEIN, Zool. Anz., **30**, (521-525).

## ERYONIDEA.

*Eryoneicus indicus hawaiiensis* subsp. n. Hawaiian islands, RATHBUN, Washington, D.C., Bull., U.S. Com. Fish., 1903, **23**, (900).

*Polycheles snyderi* (898, pl. xxiv, f. 9), *asper* (899, pl. xxiv, f. 11), spp. n. Hawaiian islands, RATHBUN, T.c.

## LORICATA.

†*Meyeria ornata* described, (10, pl. i, f. 2), *rapax* sp. n. (11, pl. i, f. 12, pl. ii, ff. 1-4, pl. iii, ff. 1, 2, pl. xi, ff. 1, 2). Lower Cretaceous, Germany, HARBORT, Berlin, Abh. geol. Landesanst. **45**.

*Panulirus japonicus*, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**, (897, pl. v).—*P. regius*, Spanish Guinea, NOBILI, Madrid, Mem. Soc. esp. hist. nat., **1**, (300, pl. viii, f. 1).

*Parribacus papyraceus* sp. n. Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**, (897, pl. xviii, f. 5).

*Seyllarides brasiliensis* sp. n. Brazil, RATHBUN, Washington, D.C., Proc. Biol. Soc., **19**, (113).

*Seyllarus nobilii*, description, NOBILI, Bul. sci. France Belgique, **40**, (56, pl. iv, f. 15, pl. vi, f. 27).—*S. sieboldi*, new to South Pacific, McCULLOCH, Sydney, N.S.W., Rec. Austr. Mus., **6**, (231).

## THALASSINIDEA.

*Axiopsis* synopsis of species (91), *aethiopica* Red Sea, NOBILI, Ann. sci. nat. zool., **4**, (93, pl. vi, f. 1).

*Axius pailoloensis* (893, fig. 49), *spinossissimus* (894, fig. 50), *rudis* (894, fig. 51) spp. n. Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**.

*Callianassa*, synopsis of species (100), *jousseaumei* (101, pl. vi, f. 2), *calmani* (104, pl. v, f. 2), *bouvieri* (105, pl. vi, f. 3), *gravieri* (107, pl. vi, f. 4), *rosae* (108, pl. vii, f. 2), *contierei* (110, pl. vii, f. 1), Red Sea, NOBILI, Ann. Sci. nat. zool., **4**.—*C. articulata* sp. n. Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**, (892, fig. 47).—*C. ceramicæ* sp. n. Victoria, FULTON and GRANT, Melbourne, Proc. R. Soc., Vic., **19**, (12-14, pl. v).

*Eiconaxius asper* sp. n. Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**, (895, f. 52).

*Jaxea nocturna* synonymy, NORMAN and SCOTT, Crustacea of Devon and Cornwall, (12).

*Paraxius tridens* sp. n. Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**, (895, fig. 53).

*Upogebia*, synopsis of species, NOBILI, Ann. sci. nat. zool., **4**, (97).—*U. hirtifrons* (61, pl. iv, f. 13), *osiridis* (62, pl. iv, f. 14), descriptions, NOBILI, Bul. sci. France Belgique, **40**.

## CARIDEA.

*Acanthephyra*; table of species, *purpurea*, *debilis*, synonymy, characters, KEMP, Fish. Ireland Sci. Invest., 1905, 1, (1-28, pls. i, ii).—*A. purpurea* A. M. Edw. = *A. parva* Cout., stages of growth, COUTÈRE, Bul. Mus., Monaco, No. 70 (12-20); description (254, pl. iv, ff. 12-15, pl. v, f. 1), *rectirostris* sp. n. Straits of Messina (260, pl. v, ff. 1-17), RIGGIO, Natural. sicil, 17.

*Acegon brendani* sp. n. Irish coast, KEMP, Ann. Mag. Nat. Hist., London, 17, (299).

*Alpheopsis haugi* sp. n. Ogowe district, COUTÈRE, Bul. Muséum, Paris, 12, (378-380, ff. 1-2).

*Alpheus aculeipes triphopus* var. n.; *euchiroides*, *hoplites* spp. n. Tuamotu Is., Polynesia, NOBILI, T.c. (257).—*A. bucephaloides* (29), *ateyone* (32), *persicus* (33), descriptions, NOBILI, Bul. sci., France Belgique, 40.—*A. macrocheles* synonymy, NORMAN and SCOTT, Crustacea of Devon and Cornwall, (16).

*Amphipalaemon scurati* sp. n. Tuamotu Is., Polynesia, NOBILI, Bul. Muséum, Paris, 12, (259).

*Anchistia elegans* (52), *edwardsi* (53), descriptions, NOBILI, Ann. sci. nat. zool., 4.

*Anchistioides compressus*, description, NOBILI, T.c. (54).

*Anchistus* Borr. = *Tridacnocraris* Nob., *miersi* description, NOBILI, Bul. sci. France Belgique, 40, (48).

*Ancylocaris aberrans* description, NOBILI, T.c. (52, pl. iv, f. 9).

*Angasia armata* (42), *erythraea* (44), descriptions, NOBILI, Ann. sci. nat. zool., 4.

†*Anthrapalaemon grossarti*, Carboniferous, Staffordshire, WARD, Stone, Rep. N. Staff. F. Cl., 40, (110).

*Arcté maruteensis* sp. n. Gambier Is., Polynesia, COUTÈRE, Bul. Muséum, Paris, 11, (18).

*Athanas nitescens* Leach, postembryonal development, SARS, Arch. Math. Naturv., Kristiania, 27, No. 10, (1-29, pl. i-iv).

*Atyaephyra desmarestii*, variation statistically examined, BROŽEK, Prag,

SitzBer. Böhm. Ges. Wiss., 1905, No. 1, (1-69).; (in N. Africa, BOUVIER, Paris, Bul. soc. ent., 1903, (245).)

*Atyella* gen. n. (*Atyidae*) (201), *brevirostris* (201, pl. xiv, ff. 57-64) sp. n. Lake Tanganyika, CALMAN, London, Proc. Zool. Soc., 1906.

*Bithynis grandimanus* description, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, 23, (923, pl. xx, f. 5).

*Brachycarpus*; synopsis of species, *advena*, Red Sea, NOBILI, Ann. Sci. Nat. zool., 4, (75-77, pl. iv, f. 1).

*Caridella* gen. n. (*Atyidae*) (198), *cunningtoni* (199, pl. xiii, ff. 45-52), *minuta* (200, pl. xiii, ff. 53-56), spp. n. Lake Tanganyika, CALMAN, London, Proc. Zool. Soc., 1906.

*Caridina harmandi* sp. n. Seas of Japan, BOUVIER, Bul. Muséum, Paris, 12, (483).—*C. kilimae* sp. n. (35), *togoënsis stuhlmanni* var. n. (35), *wyckii* var. *gracilipes* (36), figured, HILGENDORF, Deutsch Ost-Afrika Dekapoden.—*C. nilotica* var. *gracilipes*, synonymy; Lakes Nyasa and Victoria Nyanza, CALMAN, London, Proc. Zool. Soc., 1906, (189).

*Chlorotocus crassicornis*, synonymy, description, RIGGIO, Naturalista Sicil., 18, 1906, (151-160).

*Conchodytes*; synopsis of species (66), *melegrinae* (66, pl. iii, f. 5), *biunguiculata*, descriptions, NOBILI, Ann. sci. nat. zool., 4.

*Coralliocaris*, synopsis of species (55), *C. hecate* (58, pl. iii, f. 2), *analitica* (60, pl. iii, f. 3), *rhodope* (61, pl. ii, f. 8), Red Sea, NOBILI, T.c.—*C. quadridentata* (920, pl. xxiv, f. 1), *truncata* (920, pl. xxiv, f. 2), spp. n., Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, 23.

*Coralliocrangon perrieri*, Red Sea, NOBILI, Ann. sci. nat. zool., 4, (82, pl. iv, f. 2).

*Crangon consobrinus* (401), *cassiope* (402), spp. n., Japan, DE MAN, Ann. Mag. Nat. Hist., London, 17.—*C. vulgaris*, albinism, NINNI, Boll. Naturalista, Siena, 26, (77).

*Egeon orientalis*, description, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, 23, (911, pl. xxiii, f. 3).

*Gnathophyllum tridens* sp. n., Tuamotu Is., Polynesia, NOBILI, Bul. Muséum, Paris, **12**, (259).

*Harpilius*; key to species (47), *gerlachei* (45, pl. iv, f. 10), description, NOBILI, Bul. sci. France Belgique, **40**.

*Heterocarpus ensifer*, described (917, pl. xxi, f. 7), *signatus* sp. n., Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**.

*Hippolysmata acicula* (912, pl. xxiv, f. 6), *paucidens* (913, pl. xxiv, f. 4), spp. n., Hawaiian islands, RATHBUN, T.c. *H. vittata* (46, pl. 2, f. 4), *multiscissa* (47, pl. ii, f. 5), Red Sea, NOBILI, Ann. sci. nat. zool., **4**.

*Hippolyte magellanicus*, to *Nauticaris*, CALMAN, Ann. Mag. Nat. Hist., **17**, (31).—*H. prideauxiana*, synonymy, NORMAN and SCOTT, Crustacea of Devon and Cornwall, (17).

*Latreutes*, synonymy, CALMAN, Ann. Mag. Nat. Hist., **17**, (33).—*L. mucronatus multidentis* var. n., Red Sea, NOBILI, Ann. sci. nat. zool., **4**, (41, pl. ii, p. 3).—*L. pygmaeus* (37, pl. iii, f. 4), *gravieri* (39, pl. iii, f. 5), *phycoloquus* (40, pl. ii, f. 6), descriptions, NOBILI, Bul. sci. France Belgique, **40**.

*Leontocaris lar* sp. n., Irish coast, KEMP, Ann. Mag. Nat. Hist., **17**, (299).

*Leptochela aculeocaudata*, description, NOBILI, Ann. sci. nat. zool., **4**, (28).

*Limnocaridina retiaris* (192, pl. xi, ff. 2-8), *parvula* (193, pl. xi, ff. 9-14), *similis* (195, pl. xii, ff. 15-22), *latipes* (196, pl. xii, ff. 23-29), *socius* (196, pl. xii, ff. 30-37), *spinipes* (197, pl. xiii, ff. 38-44), spp. n., Lake Tanganyika, CALMAN, London, Proc. zool. Soc., **1906**.

*Lysmata seticaudata* Risso, new to Atlantic Ocean, PÉREZ, Bordeaux, Actes soc. linn., **60**, (Proc.-verb., xli-xlii).

*Merhippolyte australis* vide *Nauticaris marionis*.

*Nauticaris marionis* = (*Merhippolyte australis* Hodgson), CALMAN, Ann. Mag. Nat. Hist., **17**, (31).

*Nematocarcinus tenuirostris*, description, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**, (926, pl. xxiii, f. 6).

*Nikoides danae*, description, NOBILI, Ann. sci. nat. zool., **4**, (79, pl. v, f. 1).

*Oplophorus foliaceus* sp. n., Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**, (922, pl. xx, f. 8).

*Pandalus borealis*, statistics of capture in Kristiania fiord, WOLLEBOEK, Bergen, Norsk Fisket., **25**, (471-480, map).—*P. martius* (277, pl. ii, ff. 8-11), *heterocarpus* (280), descriptions, RIGGIO, Natural. sicil., **17**.—*P. ocellus subtilirostris* var. n., Mediterranean, RIGGIO, op. cit. **18**, (169).

*Palaemon*; key to E. African spp. (27), *idae idella* var. n. (29), German E. Africa, HILGENDOFF, Deutsch Ost-Afrika Dekapoden.—*P. (Parapalaemon) aemulus* sp. n., Tuamotu Is., Polynesia, NOBILI, Bul. Muséum, Paris, **12**, (258).—*T. debilis* (924, pl. xxii, f. 1), *pacificus* (924, pl. xxii, f. 3), descriptions; *pandaloides* sp. n., Hawaiian islands (924, pl. xxiv, f. 4), RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**.—*P. (Parapalaemon?) hendersoni* sp. n., Darjeeling, DE MAN, Ann. Mag. Nat. Hist., **17**, (405).—*P. lar* var.? Christmas Island, DE MAN, London, Proc. Zool. Soc., **1905**, (544-550, pl. xviii, ff. 7-19).—*P. moorei*, Lake Tanganyika, CALMAN, op. cit. **1906**, (188, pl. xi, ff. 1, 1a).—*P. (Eupalaemon) neglectus* nom. n. for *P. acutirostris* de Man and *P. equidens* de Man, DE MAN, Leiden, Notes Mus. Jentink, **26**, (201-206, 1 pl.).—*P. (Eupalaemon) reunionensis* Hoffmann, a variety of *P. lar* Fabr., DE MAN, L.c.—*P. xiphias*, structure of hepato-pancreas, GUIEYSSE, Paris, Bul. soc. philom., **8**, (97-102).

*Palaemonella biunguiculata* (71, pl. iii, f. 6), *gracilis* (73), descriptions, NOBILI, Ann. sci. nat. zool., **4**.—*P. laccadivensis*, description, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**, (925, pl. xxii, f. 2).

*Palaemonetes eigenmani*, anatomy of degenerate eyes, PIKE, Wood's Holl, Mass., Mar. Biol. Bull., **11**, (267-276).

*Pandalus sindoi* (915, pl. xxi, f. 4), *brevis* (916, pl. xxi, f. 3), *equivus* (916, pl. xxi, f. 2), *spinidorsalis* (917, pl. xxi, f. 5), spp. n., Hawaiian islands; ? *ocellus* Bate description, (915, pl. xxi, f. 1), RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**.

*Paschocaris paschalis*, description, NOBILI, Ann. sci. nat. zool., **4**, (38).

*Pasiphaea kaiuensis* (927, pl. xxiii, f. 4), *truncata* (928, pl. xxiii, f. 5), *flagellata* (928, pl. xxiii, f. 2), **spp. n.**, Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**.

*Periclimenes brevinaris* nom. n. for *borradalei* Nob. (42, pl. iii, f. 7), *potina* (44, pl. iii, f. 8), descriptions, NOBILI, Bul. Sci. France Belgique, **40**.—*P. petithouarsi denticulata* var. n., Tuamotu Is., Polynesia, NOBILI, Bul. Muséum, Paris, **12**, (257).—*P. pusillus* **sp. n.**, Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**, (921, pl. xxiv, f. 7).—*P. soror*, Red Sea, NOBILI, Ann. sci. nat. zool., **4**, (50, pl. ii, f. 6).

*Platybema*, synonymy, CALMAN, Ann. Mag. Nat. Hist., **17**, (33).

*Pontonia pinnæ*, description, NOBILI, Bul. sci. France Belgique, **40**, (49, pl. iv, f. 11).

*Pontophilus modumanniensis* **sp. n.**, Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**, (910, f. 63).

*Processa coutierei* (78, pl. 4, f. 3), *aegumana* (79), descriptions, NOBILI, Ann. sci. nat. zool., **4**, (78, pl. iv, f. 3).

*Psallyrocaris hawaiiensis* **sp. n.**, Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**, (928, fig. 79).

*Retrocaris serrata* **sp. n.**, Persian Gulf, NOBILI, Bull. sci. France Belgique, **40**, (54, pl. iv, f. 12).

*Saron gibberosus*, synonymy, description, NOBILI, T.c. (35).

*Sclerocrangon*, larval forms, WOLLEBOEK, Bergens Mus. Aarb., 1906, No. 11, (1-9, 2 pls.).

*Spiritocaris*, synonymy, &c., CALMAN, Ann. Mag. Nat. Hist., **17**, (32).—*S. kauaiensis* (913, pl. xxiv, f. 5), *profunda* (914, pl. xxiv, f. 10), **spp. n.**, Hawaiian islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**.—*S. rectorostris*, male (403), *propugnatrix*, *alcimede* **spp. n.**, (404), Japan, DE MAN, Ann. Mag. Nat. Hist., **17**.

*Stegopontonia* **gen. n.**, (*Pontoniidae*) *commensalis* **sp. n.**, Tuamotu Is., Polynesia, NOBILI, Bul. Muséum, Paris, **12**, (258).

*Stylodactylus discissipes*, description, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**, (927, pl. xxiii, f. 1).

*Synalpheus brachyceros* **sp. n.**, Tuamotu Is., Polynesia, NOBILI, Bul. Muséum, Paris, **12**, (256).—*S. trirungiculatus* (25), *tumidomanus* (27), descriptions, *paulsoni* **sp. n.**, Persian Gulf (28), NOBILI, Bul. sci. France Belgique, **40**.

*Systellaspis debilis* = *bouvieri* Cout., stages of growth, COUTIÈRE, Bul. Mus., Monaco, No. **70**, (1-12).

*Trachycaris* **gen. n.** (*Hippolytidae*) for *Platybema rugosus* Bate, CALMAN, Ann. Mag. Nat. Hist., **17**, (33).

*Typton bouvieri*, Red Sea, NOBILI, Ann. sci. nat. zool., **4**, (67, pl. iii, f. 4).

*Virbius? orientalis* (33), *jactans* (37, pl. ii, f. 2), Red Sea, NOBILI, T.c.

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*Acetes erythracus*, Red Sea, NOBILI, Ann. sci. nat. zool., **4**, (23, pl. i, f. 5).

*Amalopenaeus elegans*, description, RIGGIO, Natural. Sicil., **17**, (134, pl. ii, ff. 13-20).

*Aphareus inermis*, description, NOBILI, Ann. sci. nat. zool., **4**, (22).

(*Archipenaeopsis* **gen. n.** for *Penaeopsis vestitus*, BOUVIER, Paris, C.-R. Acad. sci., **141**, (747).)

*Atypopeneus compressipes*, Indian Seas, ALCOCK, Cat. Ind. Decapod. Crust., Part 3, fasc. 1, (45, pl. ix, ff. 29, 29a).

*Benthesicymus*, compared with *Gemnadas*, BOUVIER, Bul. Mus. Monaco, No. **80**, (1-9); Paris, C.-R. Acad. sci., **142**, (749).—*B. laciniatus* **sp. n.**, Hawaiian Islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, **23**, (906, pl. xix, f. 3).

*Gemnadas*, vertical distribution, BOUVIER, Paris, C.-R. Acad. sci., **142**, (686-690). T.c. (746-749).—*G. alicci*, Tropical and sub-tropical Atlantic, *scutatus*, West Atlantic (9, ff. 5, 8, 10, 13), *talismani*, Cape Verde Islands, *tinayrei*, Sargasso Sea, Azores, and Cape Sparte (10, ff. 14, 15) **spp. n.**, BOUVIER, Bul. Mus., Monaco, No. **80**; Paris, C.-R. Acad. sci., **142**, (748, 749).—(*G. brevisrostris* **sp. n.**, Santa Lucia, BOUVIER, op. cit

**141**, (748).—*G. parvus* Sp. Bate = *Ama-lopeneaus elegans* Sm., KEMP, Fish. Ireland, Sci. Invest., 1905, 5, (7).—*G. propinquus* sp. n., Hawaiian Islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, 23, (907).

*Haliporus*, characters, distribution, *affinis* (4 and 8), *carinatus* (4 and 10), *tropicalis* (4 and 10) spp. n., Atlantic, BOUVIER, Bul. Mus. Monaco, No. 81.—*H. androgynus* sp. n., Coast of W. Africa, BOUVIER, Bul. Muséum, Paris, 12, (253-256); Bul. Mus., Monaco, No. 81, (3, 8).

*Lucifer hansenii*, Red Sea, NOBILI, Ann. sci. nat. zool., 4, (25, pl. ii, f. 1).

*Metapeneaus cognatus* (14, pl. i, f. 1), *stebbingi* (15, pl. i, f. 2), *consobrinus* (17, pl. i, f. 3), *vaiillanti* (18, pl. i, f. 4), Red Sea, NOBILI, T.C.—*M. monoceros* (18, pl. iii, ff. 7-7c), *affinis* (20, pl. iii, ff. 8-8b), *dobsoni* (21, pl. iii, ff. 9-9d), *brevicornis* (22, pl. iv, ff. 10-10b), *lysianassa* (23, pl. iv, ff. 11-11c), *coniger* (pl. iv, ff. 12-12b), var. *andamanensis* (27, pl. iv, f. 13), *stridulans* (27, pl. v, ff. 14-14d), *mogiensis* (29, pl. v, ff. 15-15b), Indian Seas, ALCOCK, Cat. Ind. Decapod Crust., Part 3, fasc. 1.—*M. perlarum*, description, NOBILI, Bul. sci. France Belgique, 40, (17-21, pl. ii, f. 1).—*M. velutinus* (903, pl. xx, f. 5), *mogiensis* (904, pl. xx, f. 3), *richlersii* (904, pl. xx, f. 2), described, *evermanni* sp. n., Hawaiian Islands, (904, pl. xx, f. 1), RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, 23.

(*Neopenaeopsis* gen. n. for *Penaeopsis paradoxus*, BOUVIER, Paris, C.-R. Acad. sci., 141, (747).)

*Parapeneopsis stylifera* (36, pl. vii, f. 21), *coromandelica* var. n. (37, pl. vii, ff. 20-20c), *sculptilis* (37, pl. vii, 22-22d), var. *hardwickii* (39), *cultrirostris* var. n. (39, pl. vii, f. 23), *uncta* (39, pl. viii, ff. 25-25a), *maxillipedo* (40, pl. viii, ff. 24-24b), *nana* (41, pl. viii, ff. 26-26b), *aclivirostris* (pl. viii, ff. 27-27a), Indian Seas, ALCOCK, Cat. Ind. Decapod Crust., Part 3, fasc. 1.—(*P. rathbuni* sp. n., Antilles, BOUVIER, Paris, C.-R. Acad. sci., 141, (748).)

*Parapeneus fissurus* (31, pl. v, ff. 16-16b), *investigatoris* (32, pl. vi, ff. 17-17c), *longipes* (pl. vi, ff. 18-18b), *rectacutus* (33, pl. vi, ff. 19-19b), Indian Seas, ALCOCK, Cat. Ind. Decapod Crust. Part 3, fasc. 1.

(*Parartemesia* gen. n. for *Artemesia carinata* and *tropicalis*, BOUVIER, Paris, C.-R. Acad. sci., 141, (747-748).)

*Peneus*, characters (4), *monodon* (8, pl. i, ff. 1-1b), *semisulcatus* (10, pl. i, f. 2), *indicus* (12, pl. i, ff. 3-3a), var. *merguensis* (13, pl. ii, f. 4), var. *penicillatus* (13 pl. ii, f. 5), *canaliculatus* (14, pl. ii, ff. 6a-c), Indian Seas, ALCOCK, Cat. Ind. Decapod Crust. Part 3, fasc. 1.—*P.*, synopsis of species (6), *longipes*, description (20), NOBILI, Ann. sci. nat. zool., 4.—*P. marginatus*, description, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, 23, (902, pl. xix, f. 2).

*Sergestes arachnipodus* (183, pl. iv, ff. 1-7), *robustus* (215, pl. ii, ff. 8-12), descriptions; RIGGIO, Natural. sicil. 17.—*S. prehensilis* description, NOBILI, Bul. sci. France Belgique, 40, (22, pl. ii, ff. 2, 3).

*Sicyonia laevis*, figured, (908, pl. xx, f. 7), *longicauda* sp. n., Hawaiian Islands (908, pl. xx, f. 6), RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, 23.—(*S. stimpsoni* sp. n., Antilles, BOUVIER, Paris, C.-R. Acad. sci., 141, (748).)

*Trachypeneus asper*, Indian Seas, ALCOCK, Cat. Ind. Decapod Crust., Part 3, fasc. 1 (43, pl. ix, ff. 28-28b).

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(*Richardina inermis* sp. n., Santa Lucia, BOUVIER, Paris, C.-R. Acad. sci., 141, (749).)

*Spongicola hawaiiensis* sp. n., Hawaiian Islands, RATHBUN, Washington, D.C., Bull. U. S. Com. Fish., 1903, 23, (901, pl. xxiv, f. 8).

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*Amphiplectus*, position doubtful, not *Hippolytidae*, CALMAN, Ann. Mag. Nat. Hist., 17, (33).

#### SCHIZOPODA.

*Amblyops sarsi* Ohlin to *Dactylamblyops*, HOLT and TATTERSALL, Ann. Mag. Nat. Hist., 17, (9).

*Boreomysis rostrata* sp. n., Atlantic, ILLIG, Zool. Anz., 30, (196).



*Chalcophthalmus* gen. n., (*Mysidae*)  
*latisquamosus* sp. n., Sumatra, ILLIG,  
Zool. Anz., **30**, (200).

*Chlamydopleon inermis* sp. n., Indian  
Ocean, ILLIG, T.c. (209).

*Dactylamblyops* gen. n., (*Mysidae*) (8),  
*hodgsoni* sp. n., Antarctic (9), HOLT and  
TATTERSALL, Ann. Mag. Nat. Hist., **17**.

*Dactylerythropros arcuata* sp. n., S.  
Indian and S. Atlantic Oceans, ILLIG,  
Zool. Anz., **30**, (199).

*Erythropros brevisquamosa* sp. n.,  
Aden, ILLIG, T.c. (197).

*Euchaetomera glyphidophthalmica*,  
*imbata* spp. n., Atlantic, ILLIG, T.c.  
(201-203).

*Euphausia*, description, *E. mülleri*,  
description, NORMAN and SCOTT, Crusta-  
cea of Devon and Cornwall, (22).—*E. superba*, Dana synonymy, characters  
(2 and 3), *crystallorophias* (3), *triacantha*  
(4) spp. n., Antarctic, HOLT and TATTER-  
SALL, Ann. Mag. Nat. Hist., **17**.—*E. mülleri*,  
Claus synonymy, HOLT and TATTERSALL,  
Fish. Ireland Sci. Invest., 1904, **5**, (6).—*E. intermedia*,  
description, RIGGIO, Natural. sicil., **17**,  
(118, pl. ii, ff. 3-6).—*E. latifrons*, de-  
scription, TATTERSALL, Rep. Pearl Oyster  
Fish., **5**, (161, pl. i, ff. 1, 2).

*Gnathophausia*, key to species (27),  
*zoëa*, larva (48), *scapularis* sp. n. (50,  
pl. ii, f. 3), Californian Coast, ORTMANN,  
Washington, D.C., Smithsonian Inst.,  
U. S. Nation. Mus. Proc., **31**.—*G. doryphora*  
(227), *bidentata* (229), Indian  
Ocean, *cristata* (319), Mentawai Basin,  
spp. n., ILLIG, Zool. Anz., **30**.

*Hanseuomysis antarctica* sp. n., Ant-  
arctic, HOLT and TATTERSALL, Ann. Mag.  
Nat. Hist., **17**, (6).

*Haplostylus erythraeus*, Ceylon,  
TATTERSALL, Rep. Pearl Oyster Fish., **5**,  
(165).

*Katerythropros dactylops* sp. n., Atlantic,  
etc., ILLIG, Zool. Anz., **30**, (198).

*Leptomysis capensis* sp. n., Agulhas-  
bank, ILLIG, T.c. (206).

*Longithorax* gen. n., (*Mysidae*), *simi-  
lerythropros* sp. n., Amirante Is., ILLIG,  
T.c. (200).

*Lophogaster spinosus* sp. n., West  
Indies, ORTMANN, Washington, D.C.,  
Smithsonian Inst., U. S. Nation. Mus.  
Proc., **31**, (26, pl. i, f. 1).

*Mastigophthalmus* gen. n., (*Mysidae*)  
*zurstrasseni* sp. n., S. Atlantic and  
Indian Ocean, ILLIG, Zool. Anz., **30**,  
(203).

*Meganyctiphanes norvegica* in Tuscan  
Archipelago, MASI, Genova, Ann. Mus.  
Civ., **42**, (149-156).

*Mesomysis volgensis* sp. n., Upper  
Volga R., TRETIAKOW, St. Peterburg,  
Trav. Soc. nat., **37**, (128-131).

*Metamysidella* gen. n., (*Mysidae*)  
*kerquelenensis* sp. n., Kerguelen, ILLIG,  
Zool. Anz., **30**, (210).

*Mysideis microps* sp. n., Mouth of the  
Congo, ILLIG, T.c. (205).

*Mysidetis* gen. n., *Mysidetinae* sub-  
fam. n., *farrani* sp. n., N.E. coast of  
Ireland, HOLT and TATTERSALL, Fish.  
Ireland Sci. Invest., 1904, **5**, (39-44,  
pl. v).—*M.*, characters, *posthon* sp. n.,  
Antarctic, HOLT and TATTERSALL, Ann.  
Mag. Nat. Hist., **17**, (10).

*Mysis mixta*, life history, APSTEIN,  
Wiss., Meeresunters., Abt. Kiel, N.F.,  
**9**, (239-260).—*M. relicta*, distribution in  
fresh-water lakes, SAMTER, Berlin, Abh.  
Ak. Wiss., **1905**, Abh. V, (1-34).—*M. maxima*  
Hansen, MS., Antarctic, HOLT  
and TATTERSALL, Ann. Mag. Nat. Hist.,  
**17**, (11).—*M. quadrispinosa* sp. n.,  
Chagos Is., ILLIG, Zool. Anz., **30**,  
(207).

*Nyctiphanes couchi* and *australis*  
differences, HOLT and TATTERSALL,  
Fish. Ireland Sci. Invest., 1904, **5**, (49).

*Parerythropros acanthura* sp. n., Cape  
Guardafui, ILLIG, Zool. Anz., **30**, (197).

*Petalophthalmidae* fam. n. for *Peta-  
lophthalma*, *Ceratomysis*, *Scolophthal-  
mus*, *Hansenomysis*, HOLT and TATTER-  
SALL, Fish. Ireland Sci. Invest., 1904, **5**,  
(21).

*Petalophthalmus oculatus* sp. n., Aden,  
ILLIG, Zool. Anz., **30**, (194).

*Podopsis slabberi* in pools, Italy,  
MASI, Roma, Boll. Soc. zool. ital., **6**,  
(11-20).

*Pseudomma belgicae* Hansen, MS.,  
Antarctic, HOLT and TATTERSALL, Ann.  
Mag. Nat. Hist., **17**, (8).—*P. affine* Sars =  
*roseum* H. and T., (27-30, pl. iii, ff. 1-  
6), *callophura* (30-33, pl. iv, ff. 1-5),  
*kempi* (33-35, pl. iv, ff. 6-10), characters,  
*nanum* sp. n., (35-38, pl. iii, ff. 7-10),

North-east coast of Ireland, HOLT and TATTERSALL, Fish. Ireland Sci. Invest., 1904, 5.

*Rhopalophthalmus* gen. n., (*Mysidae*), *flagellipes* sp. n., Mouth of the Congo, ILLIG, Zool. Anz., 30, (207).

*Siriella paulsoni*, Ceylon, TATTERSALL, Rep. Pearl Oyster Fish., 5, (163, pl. 1, ff. 3-7).

*Thysanöessa macrura*, description, HOLT and TATTERSALL, Ann. Mag. Nat. Hist., 17, (5).

*Thysanopoda acutifrons, distinguenda* characters, HOLT and TATTERSALL, Fish. Ireland Sci. Invest., 1904, 5, (8-12, pls. i and ii).

#### STOMATOPODA.

*Alima*, larvae, description, TATTERSALL, Rep. Pearl Oyster Fish., 5, (175-178, pl. ii, ff. 20-29).

*Alimerichthys*, larvae, description, TATTERSALL, T.c. (175-178, pl. ii, ff. 20-29).

*Gonodactylus herdmanni*, (169, pl. i, ff. 8-10), *acanthurus*, (171, pl. i, ff. 11-15), Ceylon, spp. n., TATTERSALL, T.c.—*G. brevisquamatus*, description, (331), *glaber*, synonymy, (333), NOBILI, Ann. sci. nat. zool., 4.—*G. de mani*, description, NOBILI, Bul. sci. France Belgique, 40, (158).—*G.* larvae (*Gonerichthys*), Ceylon, TATTERSALL, Rep. Pearl Oyster Fish., 5, (183-185, pl. iii, ff. 42-47).

*Lysiosquilla*, larvae (*Lysioerichthys*), Ceylon, TATTERSALL, T.c. (179-183, pl. ii, ff. 30-34, pl. iii, ff. 35-40).

*Odontodactylus brevirostris*, Ceylon, TATTERSALL, T.c. (172, pl. ii, ff. 16-18).

*Protosquilla spinosissima*, Ceylon, TATTERSALL, T.c. (173, pl. ii, f. 19).

*Squilla*, larvae (*Alima* and *Alimerichthys*), description, TATTERSALL, T.c. (175-178, pl. ii, ff. 20-29).

#### CUMACEA.

*Campylaspis vitrea, spinosa*, spp. n., Mediterranean, CALMAN, Mitt. zool. Stat., Neapel, 17, (425-426, pl. xxviii, ff. 28-43).

*Cumellopsis puritani* sp. n., Mediterranean, CALMAN, T.c. (418, pl. xxvii, ff. 10-12).

*Diastylis laevis*, synonymy, NORMAN and SCOTT, Crustacea of Devon and Cornwall, (31).—*D. capraensis* sp. n., Mediterranean, CALMAN, Mitt. zool. Stat., Neapel, 17, (429, pl. xxviii, ff. 44, 45).

*Leucon longirostris, siphonatus*, characters, CALMAN, T.c. (414-417, pl. xxvii, ff. 1-29).

*Procampylaspis armata*, (419, pl. xxvii, ff. 13-20), description, *bonnierei*, (422, pl. xxvii, ff. 21-27), Mediterranean, sp. n., CALMAN, T.c.

*Pseudoceuma longicornis* Bate = *cercaria* Van Beneden, *similis*, North Sea, stages of growth, GILSON, Mem. soc. ent., Belg., 12, (78-98).

#### TANAIDACEA.

*Apscudes rikiteanus, seurati* spp. n., Tuamotu Is., Polynesia, NOBILI, Bul. Muséum, Paris, 12, (265, 266).

*Heterotanais örstedi*, Scandinavia, NORMAN, Ann. Mag. Nat. Hist., 17, (169, pl. vi, ff. 2, 3).—*H. gurneyi* sp. n., England, NORMAN, T.c. (168, pl. v, ff. 1-7, pl. vi, f. 1).

*Leptognathia longiremis varia* var. n., North Berwick, Scotland, SCOTT, Edinb. Proc. R. Phys. Soc., 16, (132).

*Notatanais* gen. n. for *Paratanais antarcticus* Hodgs. and *P. dimorphus* Bedd., Antarctic, RICHARDSON, Bul. Muséum, Paris, 12, (187), Paris, C.-R. Acad. sci., 142, (850).

*Tanais seurati* sp. n., Tuamotu Is., Polynesia, NOBILI, Bul. Muséum, Paris, 12, (266).

*Tanaisius* gen. n. for *Leptognathia lilljeborgii*, NORMAN and SCOTT, Crustacea of Devon and Cornwall, (34, pl. i).

#### ISOPODA.

(Terrestrial *Isopoda* of Europe and the Mediterranean basin, DOLLFUS, Feuille jeunes natural., 35, (163).)

#### ASELLOTA.

*Antias* gen. n., (*Munnidae*), *charcoti* sp. n., Antarctic, RICHARDSON, Bul.

Muséum, Paris, **12**, (188) and Paris, C.-R. Acad. sci., **142**, (851).

*Anstrimma* **gen. n.**, (*Mummidae*) *antarctica* **sp. n.**, Antarctic, RICHARDSON, T.T.cc.

*Bagatus* **gen. n.**, (*Parasellidae*), *stylo-dactylus*, *platydactylus* **spp. n.**, Tuamotu Is., Polynesia, NOBILI, Bul. Muséum, Paris, **12**, (267, 268).

*Ectias* **gen. n.**, (*Janiridae*), *turqueti* **sp. n.**, Antarctic, RICHARDSON, T.c. (188), and Paris, C.-R. Acad. sci., **142**, (850).

*Jaera* *kroyeri*, living on *Sphaeroma serratum*, Cagliari, ROSSI, Zool. Anz., **30**, (107-109).

*Stenetrium* *hanseni*, *euchirum* **spp. n.**, Tuamotu Is., Polynesia, NOBILI, Bul. Muséum, Paris, **12**, (266, 267).

#### PHREATOICOIDEA.

*Phreatoicus* *kirikii* **sp. n.**, *dunedinen-sis* var. n., New Zealand, CHILTON, Wellington, Trans. and Proc. N. Zeal. Inst., **38**, (274-276).

#### FLABELLIFERA.

*Aega australis* **sp. n.**, Antarctic, RICHARDSON, Bul. Muséum, Paris, **12**, (187), and Paris, C.-R. Acad. sci., **142**, (850); *A. strömii*, figured, NORMAN and SCOTT, Crustacea of Devon and Cornwall, (38, pl. viii, ff. 9, 10).

*Caecospheroma* *sp. habits*, GAL, Nîmes, Bul. soc. sci. nat., **31**, (48-51).

*Cassidias* **gen. n.**, (*Sphaeromidae*), *argentina* **sp. n.**, S. Atlantic, RICHARDSON, Washington, D.C., Smithsonian Inst., U. S. Nation. Mus. Proc., **31**, (20, 21).

*Cirolana borealis*, (pl. iv, f. 1), *eranchii*, (pl. iv, f. 2), figured, NORMAN and SCOTT, Crustacea of Devon and Cornwall, (40).—(*C. caeca* (6), *grimaldii* (8) **spp. n.**, Atlantic and Mediterranean, DOLLFUS, Paris, Bul. soc. zool., **28**).

*Cymodoce truncata*, characters, NORMAN and SCOTT, Crustacea of Devon and Cornwall, (44, pl. iv, ff. 3-14).—*C. euyga* (1), *richardsoniae* (3), *erythraea* (4), **spp. n.**, Erythraea, NOBILI, Napoli, Ann. Mus. zool., **2**, No. 16.—*C. ornata* (6), hab. ? *japonica* (7), Japan, *australis* (8), *meridionalis* (9), *brasiliensis* (10), S. Atlantic, *affinis*

(11), Japan, **spp. n.**, RICHARDSON, Washington, D.C., Smithsonian Inst., U. S. Nation. Mus. Proc., **31**.

*Dyuamenella codii*, *platawa* **spp. n.**, Tuamotu Is., Polynesia, NOBILI, Bul. Muséum, Paris, **12**, (269).—*D. australis* **sp. n.**, Cape Town, RICHARDSON, Washington, D.C., Smithsonian Inst., U. S. Nation. Mus. Proc., **31**, (15).

*Eurydice rotundicauda* **sp. n.**, N. Atlantic, NORMAN, Ann. Mag. Nat. Hist., **17**, (169, pl. vi, ff. 4-7).—*E. pulchra* (pl. iii, f. 11), *truncata* (pl. iii, f. 14), *spinigera* (pl. iii, f. 12), *inermis* (pl. iii, ff. 13, 13\*), figured, NORMAN and SCOTT, Crustacea of Devon and Cornwall, (42, 43).

*Gnathia maxillaris* (36, pl. ii, ff. 1-8), *oxyuraea* (37, pl. ii, ff. 9, 10, pl. iii, ff. 1-5), descriptions, NORMAN and SCOTT, T.c.—*G. antarctica* Studer = *G. polaris* Hodgs., RICHARDSON, Bul. Muséum, Paris, **12**, (187), and Paris, C.-R. Acad. sci., **142**, (850).

*Isocladus magellanensis* **sp. n.**, Straits of Magellan, RICHARDSON, Washington, D.C., Smithsonian Inst., U. S. Nation. Mus. Proc., **31**, (14).

*Livonea convexa* **sp. n.**, Panama coast, RICHARDSON, Op. cit. **29**, (445, 446).

*Paracassidinopsis* **gen. n.**, (*Sphaeromidae*), *sculpta* **sp. n.**, Tuamotu Is., Polynesia, NOBILI, Bul. Muséum, Paris, **12**, (268).

*Ricinela danmoniensis*, (38, pl. iii, ff. 6-8); *dumerilii*, (39, pl. iii, ff. 9, 10), descriptions, NORMAN and SCOTT, Crustacea of Devon and Cornwall.

*Serolis bouvieri* **sp. n.**, Antarctic, RICHARDSON, Bul. Muséum, Paris, **12**, (187), and Paris, C.-R. Acad. sci., **142**, (850).

*Sphaeroma serratum* with *Jaera kroyeri* as commensal at Cagliari, ROSSI, Zool. Anz., **30**, (107-109).

#### VALVIFERA.

*Chiridothea entomon*, biology, variation, etc., SKORIKOV, St. Peterburg, Bull. Ac. Sc., **24**, (53-64).

*Glyptonotus acutus* **sp. n.**, Antarctic, RICHARDSON, Bul. Muséum, Paris, **12**, (187), and Paris, C.-R. Acad. sci., **142**, (850).

*Idotea hectica* structure of digestive system, GUIESSE, Paris, Bul. soc. philom., **8**, (103-109).

*Symidotea pacifica* sp. n., Tuamotu Is., Polynesia, NOBILI, Bul. Muséum, Paris, **12**, (268).

## EPICARIDEA.

*Aporobopyroides* gen. n., (*Bopyridae*), *upogebiae* sp. n. on *Upogebia savignyi*, Massowa, NOBILI, Torino, Atti Acc. Sc., **41**, (1108. f. 6).

*Aporobopyrus* gen. n., (*Bopyridae*), *aduliticus* sp. n. on *Petrolisthes rufescens*, Massowa, NOBILI, T.c. (1106, f. 4).

*Cardiocepon* gen. n., (*Bopyridae*), *pterooides* sp. n. on *Cardiosoma caruifex* Ternate, NOBILI, T.c. (1104, f. 3).

*Epipenacon* gen. n., (*Bopyridae*), *ingens* sp. n. on *Penaeus asiatica*, Red Sea, NOBILI, T.c. (1098, f. 1).

*Gigantione giardi* sp. n., Tuamotu Is., Polynesia, NOBILI, Bul. Muséum, Paris, **12**, (270).

*Grapsicepon typus* parasitic on *Grapsus strigosus*, GIARD, Paris, C.-R. soc. biol., **61**, (704-706).

*Grapsion cavolinii* parasitic in *Pachygrapsus marmoratus*, together with *Saccalina benedeni*, SMITH, Fauna Neapel, Berlin, **29**, (80-81).

*Gyge branchialis* in the Channel, GIARD, Feuille jeunes natural., Paris, **36**, (12).

*Orbione bonnieri* sp. n. on *Metapenaeus monoceros*, Singapore, NOBILI, Torino, Atti Acc. Sc., **41**, (1102, f. 2).

*Upogebiophilus* gen. n. (*Bopyridae*), *rhadames* sp. n. on *Upogebia rhadames*, Djibouti, NOBILI, T.c. (1110, f. 5).

## ONISCOIDEA.

*Armadillidium nasatum*, (102, pl. xxii); *vulgare*, (103, pl. xxiii); *pulchellum*, (104, pl. xxiv); *depressum*, (106, pl. xxv), Britain, WEBB and SILLEM, Essex Nat., **14**.

*Armadillo glomus* sp. n., German E. Africa, BUDDÉ-LUND, Deutsch Ost-Afrika Isopoden, (8, f. 13).

*Cyclisticus convexus*, Britain, WEBB and SILLEM, Essex Nat., **14**, (101, pl. xxxi).

*Deto armata*, St. Paul Is., (84, pl. iv, ff. 26-36); *magnifica*, (86); *robusta*, (87, pl. iv, ff. 42-44), Auckland Is., spp. n.; *echinata*, (85, pl. iv, ff. 37, 38); *marina*, (85, pl. iv, ff. 39, 41), descriptions, BUDDÉ-LUND, Isopoda, Deutsche Südpolar Exped.

*Eubelum pila*, *hilgendorffi* spp. n., German E. Africa, BUDDÉ-LUND, Deutsch Ost-Afrika Isopoden (4, ff. 1, 2).

*Hemilepistus elegans*, structure and habits, FAUSSEK, St. Peterburg, Zap. Russ. Geogr. Obšč., **27**, (178-182, f. 63).

*Ligia exotica*, meristic variation, GOTO, Annot. Zool. Jap., Tokyo, **5**, (267-281).

*Metoponorthus pruinosus*, (99, pl. xix); *cingendus*, (100, pl. xx), Britain, WEBB and SILLEM, Essex Nat., **14**.—*M. pruinosus* in Scotland, EVANS, Ann. Scot. Nat. Hist., **1906**, (187); in New Zealand, CHILTON, Wellington, Trans. and Proc. N. Zeal. Inst., **38**, (64, 65).

*Perisceyphis anomalus*, description, (5, ff. 3, 4); *armadilloides*, (5); *nanus*, (5, f. 6); *obtusicauda*, (6, ff. 7, 8); *villosus*, (6, f. 9); *pygmaeus*, (6, ff. 10, 11); *pulcher*, (7, f. 12), spp. n., German E. Africa, BUDDÉ-LUND, Deutsch Ost-Afrika Isopoden.

*Philoscia mendica* sp. n., German E. Africa, BUDDÉ-LUND, T.c. (9, ff. 14, 15).—*P. hirsuta* sp. n., Cape Colony, BUDDÉ-LUND, Isopoda Deutsch Südpolar Exped., (89, pl. iii, ff. 42-52).

*Platyarthus hoffmannseggi* in ants' nests, ROUBAL, Prag, SitzBer. Böhm. Ges. Wiss., 1905, No. 15, (6).

*Porcellio laevis*, (97, pl. xvii), *ratzeburgii*, (98, pl. xviii), Britain, WEBB and SILLEM, Essex Nat., **14**.

*Oniscus murarius*, regeneration of antenna, OST, Zool. Anz., **29**, (687-694); *l.c.* **30**, (130-131); Arch. EntwMech., Leipzig, **22**, (289-324, pls. x-xii).

*Symarmadilloides* gen. n., *rocaltii* sp. n., Mt. Ruwenzori, NOBILI, Torino, Boll. Musei zool. anat., **21**, No. 544, (2).

*Trichoniscus pygmaeus* new to Britain, BAGNALL, Ann. Mag. Nat. Hist., **18**, (474).—*T. verrucosus*, Crozet Is., (79, pl. iv, ff. 1-16); *microps*, Italy, (83, pl. iv, ff. 18-20), spp. n.; *flavus* nom. n. for *viridis* B.-L. (*nee* Koch), BUDDÉ-

LUND, Isopoda Deutsche Südpolar Exped.

*Tylos nudulus*, Christmas island, (76 pl. iii, ff. 27–30); *incurvus*, Natal, (79, pl. iii, f. 41), **spp. n.**; *capensis*, (74, pl. iii, ff. 14–18); *latreillei*, (74, pl. iii, ff. 1–13); *ponticus*, (75, pl. iii, ff. 19, 20); *granulatus*, (75, pl. iii, ff. 21–24); *minor*, (76, pl. iii, ff. 25–26); *niveus*, (76, pl. iii, ff. 31–33); *opercularis*, (77, pl. iii, ff. 34–36); *albidus*, (77, pl. iii, ff. 37–40), descriptions, BUDDE-LUND, T.c.

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*Colypurus gen. n. agassizi sp. n.*, Eastern Pacific, RICHARDSON, Cambridge, Mass., Bull. Mus. Comp. Zool., **46**, (105, 106, pl.).

*Rhabdochiridae fam. n.* for *Rhabdochirus incertus* Giard and Bonn. RICHARDSON, L.c.

#### AMPHIPODA.

Faunistic notes, distribution in North Sea, REIBISCH, Wiss. Meeresunters., Kiel, Abt. Kiel, **9**, (185–237, 2 Taf.).

*Amphipoda, Gammaridea*, descriptions of all the known species, STEBBING, Das Tierreich, **21**, 1906.

(*Amphipoda* of Lake Titicaca, CHEVREUX, Paris, Bul. soc. zool., **29**, (131–134).)

*Actinacanthus* nom. n. for *Acanthechinus* preoccupied, STEBBING, T.c. (326).

*Aegina* nom. n. for *Aegina* Kröyer, NORMAN, Museum Normanianum (46).

*Amphithoe buczinskii sp. n.* Gulf of Odessa; KALIŠEVSKIJ, Odessa, Mém. soc. nat., **29**, (1–34, with plates i, ii).

*Andaniezis* nom. n. for *Andania* preoccupied, STEBBING, Das Tierreich, **21**, (94).

*Aora gracilis*, description, REIBISCH, Wiss. Meeresunters. Kiel, Abt. Kiel, **9**, (198, pl. viii, ff. 8–11, pl. ix, f. 1).

*Apherusa clevei*, description, REIBISCH, T.c. (191, pl. viii, ff. 1–4).—*A. ovalipes sp. n.*, coast of Devon, Scilly Is., NORMAN and SCOTT, Crustacea of Devon and Cornwall, (75, pl. viii, ff. 1–8).

*Aristias antarcticus sp. n.* Antarctic, WALKER, Ann. Mag. Nat. Hist., **17**, (454).

*Arrhis* nom. n. for *Aceros*, STEBBING, Das Tierreich, **21**, (248).

*Atyloides brevicornis sp. n.* Antarctic, CHEVREUX, Paris, Bul. soc. zool., **31**, (84, f. 5).

*Atylus andrusovi odessanus* var. n. Gulf of Odessa, KALIŠEVSKIJ, Odessa, Mém. Soc. nat., **29**, (1–34, with plates i, ii).—*A. walkeri* nom. n. for *antarcticus* (Walk.), STEBBING, Das Tierreich, **21**, (728).

*Bathyporeia lindströmi sp. n.* Naples, STEBBING, T.c. (122).

*Cerapus crassicornis*, description, REIBISCH, Wiss. Meeresunters., Kiel, Abt. Kiel, **9**, (210, pl. ix, f. 11).

*Coremapus*; characters, *versiculatus* Bate figured, NORMAN and SCOTT, Crustacea of Devon and Cornwall, (85, pl. ix, ff. 8–10).

*Corophium volutator* Pallas = *C. grossipes* Linn., SCOTT, Edinb. Proc. R. Physic. Soc., **16**, (379).

*Crybelocephalus gen. n., megalurus sp. n.*, West Coast of Ireland, TATTERSALL, Fish. Ireland Sci. Invest., 1905, **4**, (32–36, pl. iii, f. 1, pl. v, ff. 1–14).

*Epimeria macrolonta sp. n.*, Antarctic, WALKER, Ann. Mag. Nat. Hist., **18**, (16).

*Epimeriella gen. n. macronyx sp. n.*, Antarctic, WALKER, T.c. (17).

*Erichthonius lumteri*, description, REIBISCH, Wiss. Meeresunters. Kiel, Abt. Kiel, **9**, (207, pl. ix, ff. 5–10).

*Eusirus microps sp. n.*, Antarctic, WALKER, Ann. Mag. Nat. Hist., **18** (152).

*Gammaropsis longicornis sp. n.*, Antarctic, WALKER, T.c. (153).

*Gammarus argaeus sp. n.*, Asia Minor, VÁVRA, Wien, Ann. Nat. Hist. Hofmus., **20**, (109, pl. iii, ff. 10–13).—*G. pulex*, peripheral nervous system, WREDEN, St. Peterburg, Ber. Süßwasserst. Naturf. Ges., **2**, (152–157); deutsches Rés. (158–160, pl. iii).—*G. denimutus* nom. n. for *minutus* (Sars), STEBBING, Das Tierreich, **21**, (466).

(*Grandidierella gen. n., Corophiidae, mahafalensis sp. n.* in salt lake, Madagascar, COUTIÈRE, Paris, Bul. soc. philom., **6**, (166–174).)

*Haploops dellavallei* sp. n., Naples, STEBBING, T.c. (116).

(*Hippomedon bidentatus* sp. n., Mediterranean, CHEVREUX, Paris, Bul. soc. zool., **28**, (87).)

(*Hyalella neveri-lemairei* sp. n., Lake Titicaca, CHEVREUX, op. cit. **29**, (132).—*H. richardi* sp. n., Alboran Is., Mediterranean, CHEVREUX, op. cit. **27**, (223-227).)

*Hyperia macronyx* sp. n., Antarctic, WALKER, Ann. Mag. Nat. Hist., **17**, (452).

*Hyperiopsis australis* sp. n., Antarctic, WALKER, T.c. (451).

*Hyperoche lütkenides* sp. n., Antarctic, WALKER, T.c. (453).

*Iphimedia echinata* (150), *longipes* (151), *hodgeyoni* (152), spp. n., Antarctic, WALKER, T.c.

*Leptocheirus guttatus* (85, pl. ix, ff. 4-7), *pectinatus* (87, pl. ix, ff. 1-3), *fasciatus* (88, pl. v, ff. 11, 12), descriptions, NORMAN and SCOTT, Crustacea of Devon and Cornwall.

*Liljeborgia dellavallei* sp. n. Naples, STEBBING, Das Tierreich, **21**, (234).

*Lysianella dellavallei* nom. n. for *Anonyx petalocera*, Della Valle, STEBBING, T.c. (32).

*Macrohectopus* nom. n. for *Constantia*, STEBBING, T.c. (394).

*Metacyphocaris* gen. n., *helgae* sp. n., West Coast of Ireland, TATTERSALL, Fish. Ireland Sci. Invest., 1905, **4**, (29-32, pl. iii, f. 1, pl. iv, ff. 1-14).

*Metopoides walkeri* sp. n., Antarctic, CHEVREUX, Paris, Bul. soc. zool., **31**, (37, f. 1).

*Micromimonectes* gen. n., (*Hyperina*) for *irene*, *typus*, *physosoma*, *steenstrupi*, WOLTERECK, Zool. Anz., **30**, (187-194).

*Nannonyx thomsoni* nom. n. for *Lysianassa kröyeri* (Thoms.), STEBBING, Das Tierreich, **21**, (36).

*Neopleustes* gen. n. type *Amphitoe pulchella* Krøyer, STEBBING, T.c. (311).

*Niphargus ciliatus* sp. n. in cave, Basses-Alpes, CHEVREUX, cf. PEYERIMHOFF, Paris, Ann. soc. ent., **75**, (217).

*Niphargus* sp. habits, GAL, Nimes, Bul. soc. sci. nat., **31**, (48-51).

*Normanion sarsi* nom. n. for *Normanion quadrimana* (Boeck), STEBBING,

Das Tierreich, **21**, (42).—(*N. abyssi* sp. n., Mediterranean, CHEVREUX, Paris, Bul. soc. zool., **28**, (82).)

*Oediceroides calmani* sp. n., Antarctic, WALKER, Ann. Mag. Nat. Hist., **18**, (15).

*Orchestia costaricana* sp. n., Costa Rica, STEBBING, Washington, D.C., U. S. Nation. Mus. Proc., **31**, (501, pl. 11).

*Orchomene goniops* sp. n., Antarctic, WALKER, Ann. Mag. Nat. Hist., **17**, (455).

*Orchomenella chelipes* sp. n., Antarctic, WALKER, T.c. (456).—(*O. dilatata* sp. n., Mediterranean, CHEVREUX, Paris, Bul. soc. zool., **28**, (90).)

*Orchomenopsis chevreuxi* nom. n. for *excavata* Chevreux, STEBBING, Das Tierreich, **21**, (721).

(*O. proxima* (93) *excavata* (94) spp. n., Atlantic, CHEVREUX, Paris, Bul. soc. zool., **28**.)

*Pallasiella quadrispinosa*, distribution in fresh-water lakes, SAMTER, Berlin, Abh. Ak. Wiss., 1905, Abh. V, (1-34, 6 maps).

(*Parocallisoma* gen. n. (*Lysianassidae*) *alberti* sp. n., Azores, CHEVREUX, Paris, Bul. soc. zool., **28**, (84, 86).)

*Paradexamine fissicauda* sp. n., Antarctic, CHEVREUX, op. cit. **31**, (82, ff. 1, 2).

*Parapherusa* nom. n. for *Harmonia*, STEBBING, Das Tierreich, **21**, (383).

*Paratylus swammerdami* (192, pl. viii, ff. 6, 7) *falcatus* (193), descriptions, REIBISCH, Wiss. Meeresunters., Kiel, Abt. Kiel, **9**.

*Pardaliscella axeli* sp. n., North Sea, STEBBING, Das Tierreich, **21**, (228).

*Parhalimедon* gen. n. (*Oediceridae*), *turqueti* sp. n., Antarctic, CHEVREUX, Paris, Bul. soc. zool., **31**, (76, f. 1).

*Pariphimedia* gen. n. (*Iphimediidae*), *integricauda* sp. n., Antarctic, CHEVREUX, T.c. (39, f. 2).

*Paroedicerus intermedius* sp. n., Kara Sea, STEBBING, Das Tierreich, **21**, (245).

*Photis reinhardi* (202, pl. ix, ff. 2, 3), *longicaudata* (203, pl. ix, f. 4), descriptions, REIBISCH, Wiss. Meeresunters., Kiel, Abt. Kiel, **9**.

*Podoprionides* gen. n., *incerta* sp. n., Antarctic, WALKER, Ann. Mag. Nat. Hist., **17**, (457).

*Pontocrates arenarius* (68, pl. vi, ff. 1-4), *norvegicus* (68, pl. vi, ff. 5-8), *albarmarinus* (69, pl. vii, ff. 1-4), *arcticus* (70, pl. vii, ff. 5, 6), descriptions, NORMAN and SCOTT, Crustacea of Devon and Cornwall.

*Pontogeneia antarctica* sp. n., Antarctic, CHEVREUX, Paris, Bul. soc. zool., **31**, (79, f. 2).

*Pontoporeia affinis*, distribution in fresh-water lakes, SAMTER, Berlin, Abh. Ak. Wiss., 1905, Abh. V, (1-34, 6 maps).

*Proboliella* gen. n. (13), *typica* sp. n., Antarctic (14), WALKER, Ann. Mag. Nat. Hist., **18**.

*Proboloides antarcticus* sp. n., Antarctic, WALKER, T. c. (13).

*Seina vosseleri* (7-9, pl. i, ff. 1-8), *submarginata* (12-14, pl. ii, ff. 1-8), spp. n., West Coast of Ireland, TATTERSALL, Fish. Ireland Sci. Investig., 1905, 4.

*Seba antarctica* sp. n., Antarctic, WALKER, Ann. Mag. Nat. Hist., **17**, (570) and **18**, (154).—*S. typica*, description, CHILTON, op. cit. **17**, (572).

*Sphaeromimonecles scinoides* (867, f. 3), South Indian Ocean, *cultricornis* (868, f. 5), South Atlantic, spp. n., WOLTEREEK, Zool. Anz., **30**.

*Stenothoe caltai* sp. n., Mediterranean, STEBBING, Das Tierreich, **21**, (195).

*Synchelidium maculatum* sp. n., Mediterranean, STEBBING, T. c. (242).—*S. haplocheles*, synonymy, figure, NORMAN and SCOTT, Crustacea of Devon and Cornwall, (67, pl. vii, ff. 7-9).

*Talitroides bomieri* sp. n., Hab.?, STEBBING, Das Tierreich, **21**, (527).

*Thaumateson* gen. n., *herdmani* sp. n., Antarctic, WALKER, Ann. Mag. Nat. Hist., **18**, (15).

*Wandelia* gen. n. (*Phliadidae*) *crassipes* sp. n., Antarctic, CHEVREUX, Paris, Bul. soc. zool., **31**, (87, ff. 1, 2).

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*Nebalia*, embryonic development, ROBINSON, Q. J. Microsc. Sci., London, **50**, (383-433, pls. xvi-xxi).—*N. bipes* characters, TATTERSALL, Rep. Pearl Oyster Fish., **5**, (159).

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#### BRANCHIOPODA.

##### PHYLLOPODA.

†*Anomalocaris canadensis*, description, WHITEAVES, Palaeoz. Fossils, **3**, pt. 4, (313).

*Apus*; hermaphroditism, ZOGRAF, Zool. Anz., **30**, (563-567).—*A. cancriformis* at Magdeburg, KÖHLER, Bl. Aquarienkunde, Magdeburg, **17**, (294).—*A. productus*, bionomics, FRITZE, Hannover, Jahrb. ProvMus., **1905-1906**, (43-46); in Poland, WOLSKI, Bl. Aquarienkunde, Magdeburg, **17**, (478).

*Artemia*; histology of ova, ARTOM, Biologica, Torino, **1**, fasc. 1, (1-10).—*A. salina*, parthenogenesis, environmental effects, ARTOM, Biol. Centralbl., **26**, (26-32); *l.c.* (204-208); variation in chemical solutions, ARTOM, Torino, Atti Acc. Sc., **41**, (971, 972); anatomy of median eye and frontal organ, NOWIKOFF, Zs. wiss. Zool., **81**, (691-698, pl. i.); (cervical plate of nauplius, ZOGRAF, Paris, C. R. Acad. sci., **141**, (903-905).—*A. franciscana* sp. n., San Francisco, KELLOGG, Science, New York, **24**, (596).

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*Bosmina acrocoregoni burekhardtii* var. n., Alpine lakes, BREHM, Wien, Verh. ZoolBot. Ges., **56**, (40).—*B. coregoni amethystina* var. n., Garda Lake, Italy, BREHM, Arch. Hydrobiol., **1**, (497).—*B. stuhlmanni* sp. n., German E. Africa, WELTNER, Deutsch Ost-Afrika, Cladoceren, (6, ff. 15, 30).

*Bosminopsis zernowi*, Linko, Central Russia; distribution of the genus; ZYKOFF, Zool. Anz., **30**, (22-24).

*Ceriodaphnia quadrangula hamata* var. n., Alpine lakes, BREHM, Wien, Verh. ZoolBot. Ges., **56**, (37, 38).—*C. bicuspidata* sp. n., German E. Africa, WELTNER, Deutsch Ost-Afrika, Cladoceren, (5, ff. 10, 11, 14).—*C. globosa* sp. n., New Zealand, BRADY, London, Proc. Zool. Soc., **1906**, (695, pl. xlviii, ff. 1-3).

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*Leydigia trichura* sp. n., Nebraska, FORDYCE, Trans. Amer. Microsc. Soc., **25**, (49, pl. vi, ff. 2, 3).

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*Polyphemus pediculus*, cycles of generation, KEILHAOK, Zool. Anz., **30**, (911-912); biology and ecology, ZACHARIAS, T.c. (455-459).

*Scapholeberis kingi*, Calcutta, GURNEY, Calcutta, J. Proc. As. Soc., Beng., **2**, (277, pl. v, f. 15).

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*Copepoda*, allied to *Lamippe*, in Gorgonian polyps, VERSLUYS, Gorgoniden der Siboga-Expedition, (6).

*Acartia biflora*, *longiremis*, larval forms, OBERG, Wiss. Meeresunters., Kiel, Abt. Kiel, **9**, (44, pl. iv).



*Adiaptomus* gen. n., *natalensis* sp. n., Natal, COOPER, Ann. Natal Govt. Mus., 1, (98, pl. xii, ff. 1-14).

*Ameira simplex*, description, NORMAN and SCOTT, Crustacea of Devon and Cornwall, (150, pl. x, ff. 7-9, xii, f. 4, xiii, f. 3, xiv, f. 5, xvii, f. 3, xxi, f. 7).

*Amenophia pellata*, British Isles and Norway, (136, pls. lxxxiii, lxxxiv), *pulchella* sp. n., Norway, (138, pl. lxxxiv, f. 2), SARS, Crustacea of Norway, 5.

*Amphiascus*, synonymy, (148), *cinctus*, (149, pls. xci, xcii), *obscurus* sp. n., Norway, (150, pl. xciii), *similis*, (151, pl. xciv), *nasutus* nom. n., for *Dactylopus strömii* var. *arctica* (153, pl. xciv), *minutus*, synonymy, (154, pl. xcvi), *imus*, (156, pl. xcvi), *giesbrechti* sp. n., Kiel, (157, pl. xcvi), *propinquus* sp. n., Norway, (158, pl. xcix), *longirostris*, (159, pl. c, ci), *tenuiremis*, (161, pl. cii), *parvus* sp. n., Norway, (162, pl. ciii), *debilis*, (162, pl. civ), *pallidus* sp. n., Norway, (164, pl. cv), *abyssi*, (165, pl. cvi), *hispidus*, (166, pls. cvii, cviii), *affinis* sp. n., Norway, (168, pl. cix), *intermedius*, (169, pl. cx), *typhlops*, (170, pl. cxi), *attenuatus*, (171, pl. cxii), *phyllopus*, (172, pl. cxiii), *nanus*, (173, pl. cxiv, f. 1), *exiguus*, (174, pl. cxiv, f. 2), *productus*, (175, pl. cxv), *tenellus*, (176, pl. cxvi), *linearis*, (177, pl. cxvii), *sinuatus*, (178, pl. cxviii), spp. nn., Norway; SARS, Crustacea of Norway, 5.

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*Attheyella grandidieri*, Java, Siam, Cochinchina, (185, pl. xiv, ff. 7-17), *decorata*, Sumatra, Java, (188, pl. xiv, ff. 18-21, xv, ff. 1-13), descriptions, DADAY, Zool. Jahrb., Syst. 24.

*Augaptilus rostratus* sp. n., Californian coast, ESTERLY, Berkeley Univ. Cal. Pub. Zool., 3, (73, pl. ix, f. 19, xi, f. 42, xii, ff. 57, 63, xiii, f. 75).—

*A. longicaudatus*, description, ESTERLY, l.c., 2, (188).

*Autaneptsius* gen. n., *major*, (39, pl. xiii, f. 1), *minor*, (41, pl. xiii, ff. 2-5). Atlantic Ocean, spp. n., WOLFENDEN, Plankton Studies, 3.

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*Boeckella entzi*, description, (15, pl. i, f. 6), *vezillifera* sp. n., Falkland Is., (16, pl. i, ff. 7-12), EKMAN, *Cladocera* and *Copepoda*, Swedish Antarctic Expedition.

*Brachiella antarctica* sp. n., Antarctic, parasitic on *Dissostichus eleginoides*, QUIDOR, Bul. Muséum, Paris, 12, (30).

*Bradya minor*, salt-water pond, Northumberland, BRADY, Newcastle, Trans. Nat. Hist. Soc., 1, (332, pl. ix, ff. 1-3).

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*Caligus zeii* sp. n. on *Zeus faber*, Cornwall, NORMAN and SCOTT, Crustacea of Devon and Cornwall, (206, pl. xxii, ff. 1-8).—*C. rapax* on *Orthogoriscus mola*, North Berwick, EVANS, Ann. Scot. Nat. Hist. No. 57, (57).—*C. scomberi*, Irish Sea, SCOTT, Liverpool, Proc. Trans. Biol. Soc., 20, (196, pl. vi).—*C. dentatus* sp. n. on *Cyprinus carpio*, Caspian Sea, GADD, Ark. Zool. Stockholm, 3, No. 15, (1-9).

(*Caligus remoræ* sp. n., Red Sea, BRIAN, Arch. parasit. Paris, 9, (564, 9 ff.).

*Candacia*; descriptions, figures and key to Californian species, ESTERLY, Berkeley Univ. Cal. Pub. Zool., 2, (192-

198).—*C. cheirura*, (198, pl. i, pl. ii, ff. 7-10), *inermis*, (200, pl. ii, ff. 11-13, pl. iii, ff. 14-16), **spp. n.** S. African seas, CLEVE, Cape Town Marin. Invest., 3.

*Canthocamptus*, description, SARS, Crustacea of Norway, 5, (191-195); key to N. American species (154), *staphylinoides* (151, pl. xv, ff. 14-21), *hiemalis* (153, pl. xvi, ff. 28, 29, xvii, ff. 31-42), **spp. n.**, Nebraska, PEARSE, Trans. Amer. Microsc. Soc., 26.—*C. bidens*, Kew Gardens, new to Britain, SCOURFIELD, Kew Bulletin, Add., Ser. 5, (20).—*C. northumbrius coronatus* var. n. Mongolia, DADAY, Math. Term. Ért., 24, (58).—*C. crassus*, description, (29, pl. iii, ff. 25-28), *trigonurus* **sp. n.** (30, pl. iii, ff. 29-34), Falkland Is., EKMAN, Cladocera and Copepoda, Swedish Antarctic Expedition, (27, pl. iii, ff. 22-24).

*Centropages bradyi*, description, ESTERLY, Berkeley Univ. Cal. Pub. Zool., 2, (172).—*C. hamatus*, larval forms, OBERG, Wiss. Meeresunters. Kiel, Abt. Kiel, 9, (42, pl. ii).

*Clausocalanus arcuicornis*, description, ESTERLY, Berkeley Univ. Cal. Pub. Zool., 2, (142).

*Clytemnestra rostrata*, description, ESTERLY, T.c. (214).

*Corycaeus* sp., in Adriatic, BREHM, Arch. Hydrobiol., Stuttgart, 1, (392-393).—*C. venustus*, (225), *carinatus*, (226), descriptions, ESTERLY, Berkeley Univ. Cal. Pub. Zool., 2.

*Cyclopina gracilis*, mandible figured, BRADY, Newcastle Trans. Nat. Hist. Soc., 1, (332, pl. x, f. 13).

*Cyclops albidus*, (48, pl. ii, ff. 1-3, iii, f. 1), *serrulatus*, (49, pl. i, ff. 5-6, ii, f. 9, iii, ff. 6, 7), *fimbriatus*, (55, pl. iii, f. 2), *leuckarti*, (56, pl. i, ff. 1, 3), *strenuus*, (58, pl. iii, f. 4), *viridis*, (59, pl. i, f. 4, ii, ff. 4-6, iii, f. 5), *vernalis*, (61, pl. iii, f. 3), *bicolor*, pl. i, f. 2, ii, ff. 7, 8), descriptions, LAROCHE, Copepoden der Umgebung von Bern.—*C. venustus* **sp. n.**, Devonshire, NORMAN and SCOTT, Crustacea of Devon and Cornwall, (189, pl. xvi, f. 11, xviii, f. 9, xx, ff. 1-3).—*C. signatus* var. *coronatus*, development, BYRNES, Wood's Holl, Mass., Mar. Biol. Lab. Bull., 10, (193-196, pl. vii, viii).—*C. aspericornis* **sp. n.**, Sumatra, DADAY, Math. Term. Ért., 24, (269), also Zool. Jahrb. Syst., 24, (181, pl. xiv, ff. 1-6).—*C. stuhlmanni*, (1, pl. i, ff. 1-7,

10, 11), *emini*, (4, pl. ii, ff. 1-3, 5-6, 8), **spp. n.**, German E. Africa, *oithonoides*, (3, pl. i, ff. 8, 9, 12, 13), *leuckarti*, (5, pl. ii, ff. 4, 7, 9), descriptions, MRÁZEK, Deutsch Ost-Afrika, Copepoden.—*C. lobulosus* **sp. n.**, Falkland Is., EKMAN, Cladocera and Copepoda, Swedish Antarctic Expedition, (27, pl. iii, ff. 22-24).

*Dactylopodella* **gen. n.** for *D. flava* Claus, Sars, Crustacea of Norway, 5, (131-133, pl. lxxxii).

*Dactylopus jugurtha*, Siam, DADAY, Zool. Jahrb. Syst., 24, (195, pl. xvi, ff. 6-8).

*Dactylopusia valida*, description, NORMAN and SCOTT, Crustacea of Devon and Cornwall, (171, pl. x, f. 16, xii, f. 9, xiii, f. 12, xvii, f. 8, xx, f. 6).

*D'Arcythompsonia* **gen. n.** for *Cylindropsyllus fairliensis*, SCOTT, Ann. Mag. Nat. Hist., 17, (463, pl. xi, ff. 1-6).

*Diaptomus gracilis* (63, pl. iv, ff. 1-3), *vulgaris*, (64, pl. iv, ff. 4, 5), descriptions, LAROCHE, Copepoden der Umgebung von Bern.—*D. graciloides kubinskaja* var. n., North Russian coast, ZYKOFF, Zool. Anz., 30, (167, f. 4).—*D. visnu* **sp. n.**, Singapore, DADAY, Math. Term. Ért., 24, (279), and Zool. Jahrb. Syst., 24, (20, pl. xvi, ff. 17-20).—*D. greeni* **sp. n.**, Ceylon, GURNEY, Spolia Zeylan., 4, (129, pl. ii).—*D. galebi*, (6, pl. iii, ff. 4, 5, 8, 9), *stuhlmanni* **sp. n.** (7, pl. iii, ff. 1-3, 6, 7), German E. Africa, MRÁZEK, Deutsch Ost-Afrika, Copepoden.—*D. clavipes*, (147, pl. xiii f. 6), *saltillinus*, (148, pl. xiv, ff. 9, 10), figured, *wardi* **sp. n.** United States, (148, pl. xiii, ff. 1-4), PEARSE, Trans. Amer. Microsc. Soc., 26.—*D. pygmaeus* (244, ff. 1-3), *spatulocrenatus* (246, ff. 6-9), **spp. n.**, United States, PEARSE, Amer. Nat., Boston, 40.—*D. shoshone* figured, *nudus* **sp. n.**, lakes in Colorado, MARSH, Trans. Amer. Microsc. Soc., 25, (147, pls. xxx, xxxi).

*Diosaccus tenuicornis*, Sars, Crustacea of Norway, 5, (146, plates lxxxix, xc).

*Disseta grandis* **sp. n.**, Californian coast, ESTERLY, Berkeley Univ. Cal. Pub. Zool., 3, (72, pl. ix, f. 21, xi, ff. 45, 46, xiii, f. 69, xiv, ff. 88, 94).

*Dissonus* **gen. n.**, (*Caligidæ*), *spinifer* **sp. n.**, Ceylon, WILSON, Rep. Pearl

Oyster Fish., 5, (198-202, pl. iii, ff. 34-17).

*Ectinosoma brunnea* sp. n., salt-water pond, Northumberland, BRADY, Newcastle, Trans. Nat. Hist. Soc., 1, (333, pl. ix, ff. 4-11).

*Echthrogaleus (?) litheni*, description, NORMAN and SCOTT, Crustacea of Devon and Cornwall, (213, pl. xxii, ff. 1-9).

*Epischelura massachusettensis* sp. n., United States, PEARSE, Amer. Nat., Boston, Mass., 40, (242, ff. 4, 5).

*Eucalanus*; descriptions, figures, and key to Californian species, ESTERLY, Berkeley Univ. Cal. Pub. Zool., 2, (130-135).

*Eucandona tuberculata* (62), *elypticuskyi* (64), spp. n., Mongolia, DADAY, Math. Termt. Ért., Budapest, 24, 1906.

*Euchaeta affinis* sp. n., S. African seas, CLEVE, Cape Town Marin. Invest., S. Africa, 3, (201, pl. iii, ff. 17-19).—*E. californica* (60, pl. ix, f. 11, x, ff. 26, 34), *propinqua* (61, pl. ix, f. 9, x, ff. 30, 33), *tennis* (61, pl. ix, f. 12, x, ff. 29, 31), *spinifera* (62, pl. ix, f. 8, xi, f. 35, xiv, ff. 82, 83), *dubia* (63, pl. ix, f. 7, xi, f. 36, xiii, f. 66, xiv, ff. 84, 85), spp. n., Californian coast; *tonsa* Giesb. (64, pl. ix, f. 10, x, f. 32), description, ESTERLY, Berkeley Univ. Cal. Pub. Zool., 3.

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*Erytemora americana* sp. n., Rhode Island, WILLIAMS, Amer. Nat., Boston, Mass., 40, (645, ff. 8-11).

*Euterpe acutifrons*, description, ESTERLY, Berkeley Univ. Cal. Pub. Zool., 2, (212).

*Evansia* gen. n. for *Tetragoniceps incertus* and *T. pygmaeus* Scott, SCOTT, Ann. Mag. Nat. Hist., 17, (460).

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*Gaetanus brevicornis* (56, pl. ix, f. 4, pl. xii, f. 55), *unicornis* (57, pl. ix, f. 3, pl. xii, f. 54, pl. xiii, f. 76), *clarus* (57, pl. ix, f. 5, pl. xiv, f. 90), spp. n., Californian coast, ESTERLY, Berkeley Univ. Cal. Pub. Zool., 3.

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*Gaidius maximus* sp. n., Atlantic, WOLFENDEN, Plankton Studies, 3, (35, pl. xi, ff. 1, 2).

*Giardella thompsoni* sp. n., Irish Sea, SCOTT, Liverpool, Proc. Trans. Biol. Soc., 20, (195, pl. iv).

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*Haloptilus longimomus* sp. n., Atlantic, WOLFENDEN, Plankton Studies, 3, (29, pl. ix, ff. 1-6).

*Harrietella* gen. n. for *Laophonte similans* Scott, SCOTT, Ann. Mag. Nat. Hist., 17, (464, pl. xi, ff. 9, 10).

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*Hatschekia* ? sp. n., on *Carcharias mulleri*, Ceylon, WILSON, Rep. Pearl Oyster Fish., 5, (205, pl. v, ff. 58-60).

*Hersiliodes pelsenceri* commensal with *Leiochone clypeata*, PÉREZ, Bordeaux, Actes soc. linn., 60, (Proc. verb., xxxi-xxxiii).

*Hermannella parva*, description, NORMAN and SCOTT, Crustacea of Devon and Cornwall, (199, pl. xiii, f. 15, xv, ff. 4-10, xvi, f. 12, xix, f. 5).

*Heterocalanus* gen. n., *medius* sp. n. (no locality), WOLFENDEN, Plankton Studies, 3, (27, pl. viii, ff. 1-5).

*Heterorhabdus*; descriptions, figures, and key to Californian species, ESTERLY, Berkeley Univ. Cal. Pub. Zool., 2, (182-187).—*H. longicornis* figured, *id. l.c.*, 3, (77, pl. xiv, f. 93).

*Idomene forficata*, described SARS, Crustacea of Norway, 5, (134, pl. lxxxii).

*Isocalanus* gen. n., *minor*, (36, pl. xii, ff. 1-5), *major*, (37, pl. xii, ff. 6-11), spp. n., Atlantic, WOLFENDEN, Plankton studies, 3.

*Labidocera trispinosa* sp. n., Californian coast, ESTERLY, Berkeley Univ. Cal. Pub. Zool., 2, (200).—*L. jollae* sp. n., Californian coast, *id. l.c.*, 3, (74, pl. ix, ff. 22, 23, xii, ff. 50-53, xiv, ff. 89, 91).

*Laemargus muricatus* on *Orthogoriscus mola*, North Berwick, EVANS, Ann. Scot. Nat. Hist., No. 57, (57).

*Laophonte serrata* (157, pl. xiii, f. 6, xvi, f. 6, xvii, f. 5), *inornata* (157, pl. xii, f. 5, xiii, ff. 5-14, xiv, f. 7, xvi, f. 5, xviii, ff. 3, 4, xxi, f. 3), *herdmani* (159, pl. xi, ff. 5-7, xii, f. 6, xiii, f. 7, xiv, f. 8, xvii, f. 6), descriptions, NORMAN and SCOTT, Crustacea of Devon and Cornwall.—*L. mohammed*, Siam, DADAY, Zool. Jahrb. Syst., 24, (196, pl. xvi, ff. 9-16).—(*L. mohammed* distribution, ZYKOFF, Zool. Anz., 29, (347).)

*Laophontina dubia*, description, NORMAN and SCOTT, Crustacea of Devon and Cornwall, (165, pl. x, ff. 12-15, xi, f. 8, xii, ff. 7, 8, xv, f. 11, xvi, f. 7, xvii, f. 7, xviii, f. 5).

*Lepeophtheirus thompsoni* parasitic on *Rhombus maximus*, description, BRIAN, Riv. ital. sc. nat., 26, (125-127).—*L. brachyurus* on *Tetrodon stellatus*, (190, pl. i, ff. 1-10), *aesopus* sp. n. (192, pl. i, ff. 11, 12), Ceylon, WILSON, Rep. Pearl Oyster Fish., 5.

*Leposiphilus labrei*, description of male, larval forms of female, QUIDOR, Paris, C.-R. Acad. sci., 142, (231, 232).

*Leptastacus* gen. n. for *Tetragoniceps macronyx*, SCOTT, Ann. Mag. Nat. Hist., 17, (461).

*Lernanthropus*; list of species (135-140), *foliaceus* (140, pl. ii, f. 1), *vorax* (142, pl. ii, ff. 2, 3), *gislerei* (145, pl. ii, f. 2), *brevis* (147, pl. ii, ff. 8, 9), descriptions; *lichiae* (144, pl. ii, f. 4) sp. n. on gills of *Lichia vadigo*, Mediterranean, GOGGIO, Pisa, Atti Soc. tosc. sc. nat. Mem., 22.—*L. spp.*, synonymy, GOGGIO, Mon. zool. ital., 17, (352-353).—*L. tetradactylus* Bassett Smith nom. nud., POCHÉ, Zool. Anz., 29, 1906, (671-672).

*Lernaenicus sardinae* parasitic on sardine, BAUDOUIN, Rev. sci., Paris, 3, (715-722).

*Lucicutia aurita* (202), *bradyana*, (204, pl. vi, ff. 33, 34) spp. n., S. African seas, CLEVE, Cape Town, Marin. Invest. S. Africa, 3.—*L. flavicornis*, description, ESTERLY, Berkeley Univ. Cal. Pub. Zool., 2, (180).—*L. ovalis* sp. n., no locality, WOLFENDEN, Plankton Studies, 3, (28, pl. ix, ff. 7-10).

*Lütkenia asterodermi*, description, NORMAN and SCOTT, Crustacea of Devon

and Cornwall, (210, pl. xxii, ff. 9, 10, xxiv, ff. 1-8).

*Mecynocera clausi*, description, ESTERLY, Berkeley Univ. Cal. Pub. Zool., 2, (137).

*Megacalanus* Wolf = *Macrocalanus* Sars, *longicornis* Sars = *bradyi* Wolf. WOLFENDEN, Plankton Studies, 3, (25).

*Megarthrum* gen. n. for *Dactylopusia purpurocincta* Norman and Scott, NORMAN and SCOTT, Crustacea of Devon and Cornwall, (175, pl. x, f. 17, xii, f. 10, xiii, f. 10, xiv, f. 9, xviii, f. 6, xix, f. 1, xxii, ff. 4, 5).

*Mesoglicola* gen. n., *delagei* sp. n., parasitic on *Corynaectis viridis*, QUIDOR, Paris, C.-R. Acad. sci., 143, (613-615).

*Mesocheres* (193), *anglicus* (194, pl. x, f. 18, xi, f. 10, xii, f. 13, xiii, f. 13, xiv, f. 14, xix, f. 6, xx, f. 8), descriptions, NORMAN and SCOTT Crustacea of Devon and Cornwall.

*Metridia lucens* (177), *boeckii* (178), descriptions, ESTERLY, Berkeley Univ. Cal. Pub. Zool., 2.—*M. atra* (70, pl. ix, ff. 15, 16, pl. xi, ff. 39, 40, pl. xiii, f. 78, pl. xiv, f. 95), *ignota* (71, pl. ix f. 20), spp. n. Californian coast, ESTERLY, l.c., 3.

*Microsetella rosea*, description, ESTERLY, T.c. 3, (211).

*Monstrilla anglica*, Irish Sea, SCOTT, Liverpool, Proc. Trans. Biol. Soc., 20, (195, pl. v).

*Nicthoa astaci*, description of male, QUIDOR, Paris, C.-R. Acad. sci., 142, (465-468).

*Nitocera platypus* sp. n., Siam, DADAY, Math. Termt. Ért., 24, (273) and Zool. Jahrb. Syst., 24, (192, pl. xv, ff. 10, 14-26, xvi, ff. 1-5).

*Oithona plumifera* (207), *nana* (209), descriptions, ESTERLY, Berkeley Univ. Cal. Pub. Zool., 2.—*O. plumifera* Baird in the North Sea, BREEMEN, Helder, Verh. Onderz. Zee, 1, (1-8, 1 pl.).—*O. similis* larval forms, OBERG, Wiss. Meeresunters. Kiel, Abt. Kiel, 9, (45, pl. v.).

*Oncaea conifera* (216), *minuta* (217), descriptions, ESTERLY, Berkeley Univ. Cal. Pub. zool., 2.

*Ophiocamptus mongolicus* sp. n. Mongolia, DADAY, Math. Termt. Ért., 24, (34-77).

*Orthogoriscola* Poche for *Laemargus muricatus* Kröyer, SCOTT, Edinb. Proc. R. Phys. Soc., **16**, (369).

*Paracalanus parvus*, description, ESTERLY, Berkeley Univ. Cal. Pub. Zool., **2**, (140); larval forms, OBERG, Wiss. Meeresunters., Kiel, Abt. Kiel, **9**, (40, pl. i); *perplexus* var. n. Plymouth, NORMAN and SCOTT, Crustacea of Devon and Cornwall (127, pl. xii, ff. 1-2, xiii, f. 1, xiv f. 1).

*Parastenhelia anglica*, description, NORMAN and SCOTT, op. cit. (148, pl. x, ff. 10, 11, xiii, ff. 4, 9, xiv, f. 6, xvi, f. 4, xvii, f. 4, xxi, f. 2).

*Peltidium conspicuum*, description, NORMAN and SCOTT, T.c. (180, pl. xi, f. 9, xiv, f. 11, xv, f. 6, xix, f. 4).

*Penella* sp., Moluccas, HORST, Leiden, Notes Mus. Jentink, **26**, (229-234).

(*Penella filosa*, post-larval stages. THOMPSON, Biol. Bull., Wood's Holl, Mass., **8**, (296-307).)

*Peniculus furcatus* on *Tetrodon*, Ceylon, WILSON, Rep. Pearl Oyster Fish., **5**, (206-208, pl. v, ff. 61-66).

*Philichthyidae*, characters, QUIDOR, Paris, C.-R. Acad. sci., **142**, (231).

*Philichthys amphiuroides* sp. n., parasitic in *Amphiuroides squammata*, HÉROUARD, T.c. (1288).

*Phyllopodopsyllus* gen. n. for *Tetragoneiceps bradyi*, SCOTT, Ann. Mag. Nat. Hist., **17**, (458).

*Phyllopus bidentatus*, description, ESTERLY, Berkeley, Univ. Cal. Pub. Zool., **2**, (191).—*P. turqueti* sp. n., Antarctic, QUIDOR, Bul. Muséum, Paris, **12**, (27), and Paris, C.-R. Acad. sci., **142**, (54, 55).

*Phyllothyreus cornutus*, description, NORMAN and SCOTT, Crustacea of Devon and Cornwall, (212, pl. xxiv, ff. 9-17).

*Pleuromamma*; Californian species figured and described, ESTERLY, Berkeley Univ. Cal. Pub. Zool., **2**, (174-177).

*Pontella lobiancoi*, Irish Sea, SCOTT, Liverpool, Proc. Trans. Biol. Soc., **20**, (194, plates ii, iii).

*Pontellopsis occidentalis* sp. n. Californian coast, ESTERLY, Berkeley Univ. Cal. Pub. Zool., **3**, (76, pl. xi, ff. 47, 48,

49, xii, f. 59, xiii, f. 68, xiv, ff. 92, 96).

*Porcellidium charcoti*, *affinis*, spp. n., Antarctic, QUIDOR, Bul. Muséum, Paris, **12**, (28), and Paris, C.-R. Acad. sci., **142**, (54, 55).—*P. lecanoides*, description, NORMAN and SCOTT, Crustacea of Devon and Cornwall, (182, pl. xiv, f. 12, xv, f. 5, xix, f. 3, xx, f. 7).

*Pseudoboeckella anderssonorum* sp. n. Subantarctic seas, EKMAN, *Cladocera* and *Copepoda*, Swedish Antarctic expedition, (10, pl. 1, ff. 3-5).

*Pseudocalanus elongatus* larval forms, OBERG, Wiss. Meeresunters. Kiel Abt. Kiel, **9**, (40, pl. i).

*Pseudodiaptomus coronatus* sp. n., Rhode Island, WILLIAMS, Amer. Nat., Boston, **40**, (641, ff. 1-7).

*Pseudodiosaccus* gen. n. for *Diosaccus propinquus*, SCOTT, Ann. Mag. Nat. Hist., **17**, (465).

*Pteropsyllus* gen. n. for *Tetragoneiceps consimilis*, SCOTT, T.c., (459).

*Robertsonia tenuis* description, NORMAN and SCOTT, Crustacea of Devon and Cornwall, (140, pl. xx, ff. 9-11, xvi, f. 6).

*Sabelliphilus* (?) *bispirae* sp. n. parasitic on *Polychaete bispirae*, S. African seas, MCINTOSH, Cape Town Marin. Invest., S. Africa, **3**, (86-91, pl. ix).

*Sapphirina*, figures and descriptions of Californian species, (219-223). *lomae* sp. n., (223), Californian coast, ESTERLY, Berkeley, Univ. Cal. Pub. Zool., **2**.

*Scolecithricella neptuni* sp. n., S. African seas, CLEVE, Cape Town Marin. Invest., S. Africa, **3**, (206, pl. iv, v, vi, ff. 30, 31).

*Scolecithrix*; key to species (163), *danae* (164), *bradyi* (165), *persecans* (166), *similis* (170), descriptions; *subdentata* (167), *pacifica* (168), spp. n., Californian coast, ESTERLY, Berkeley Univ. Cal. Pub. Zool., **2**; *inornata* (67, pl. ix, f. 18, xi, f. 27, xiii, ff. 65, 73), sp. n., Californian coast; *frontalis* (65, pl. ix, f. 14, xiii, f. 70), *magna* (66, pl. ix, f. 13, xi, f. 38, xii, ff. 52, 64, xiii, f. 72, descriptions; ESTERLY, l.c. **3**.

*Spinocalanus magnus* described, (41, pl. xiv, ff. 1-5), *antarcticus* sp. n., Antarctic, (43, pl. xiv, ff. 6-9), WOLFENDEN, Plankton Studies, **3**.—*S. major* sp. n., Californian coast, ESTERLY, Berkeley Univ. Cal. Pub. Zool., **3**, (55).

*Stenhelia*, description, synonymy, (180), *gibba* description (181, pl. cxix, cxx, f. 1), *proxima* sp. n., Norway (183, pl. cxx, f. 2), *aemula* (184, pl. cxxi), *palustris* (185, pl. cxxii), *reflexa* (186, pl. cxxiii), *giesbrechti* (188, pl. cxxiv, f. 1), *normani* (189, pl. cxxiv, f. 2), *longicaudata* (190, pl. cxxv, f. 1), descriptions, Sars, Crustacea of Norway, 5.—*S. pygmaea* (142, pl. x, ff. 1-3, xi, ff. 1-2, xv, f. 1, xvi, f. 1, xviii, f. 1), *sinudans* (143, pl. x, f. 6, xiii, f. 8, xiv, f. 4, xvii, f. 1, xxi, f. 1), *neglecta* (144, pl. x, f. 4, xi, f. 3, xiii, f. 2, xiv, f. 2, v, ff. 2, 12, xviii, f. 2, xxi, f. 8), *varians* (146, pl. x, f. 5, xiv, f. 13, xv, ff. 4, 14, xvi, f. 3, xvii, f. 2), *longirostris* (147, pl. xi, f. 4, xii, f. 3, xiv, f. 3, xv, ff. 3, 13, xvi, f. 2), descriptions, NORMAN and SCOTT, Crustacea of Devon and Cornwall.

*Stenhelopsis* gen. n., *divaricata* sp. n., Norway, Sars, Crustacea of Norway, 5, (191-193, pl. cxxv, f. 2).

*Temora longicoruis*, larval forms, OBERG, Wiss. Meeresunters. Kiel, Abt. Kiel, 9, (43, pl. iii).

*Tortanus setaceaudatus* sp. n. Rhode Island, WILLIAMS, Amer. Nat. Boston, 40, (649, ff. 12-15).

*Trebis exilis* sp. n. on *Rhinoptera javanica*, Ceylon, WILSON, Rep. Pearl Oyster Fish., 5, (194, pl. ii, ff. 20-33).

*Unduchacta*; characters (147), *major* (148), *minor* (149), descriptions, ESTERLY, Berkeley, Univ. Cal. Pub. Zool., 2.

*Valleninia* gen. n. for *Daetylopsia ornata*, NORMAN and SCOTT, Crustacea of Devon and Cornwall (173, pl. xiii, f. 11, xiv, f. 10, xvi, ff. 8-10, xviii, f. 7, xix, f. 2, xxi, ff. 4, 5).

*Westwoodia nobilis* description (140, pl. lxxxv, lxxxvi), *assimilis* sp. n., Norway (141, pl. lxxxvii), *minuta* (142, pl. lxxxviii, f. 1), *pygmaea* (143, lxxxviii, f. 2), descriptions, Sars, Crustacea of Norway, 5.

*Xanthocalanus fragilis* description, CLEVE, Cape Town Marin. Invest. S. Africa, 3, (209, pl. vi, f. 32).—*X. similis* sp. n., Californian coast, ESTERLY, Berkeley Univ. Cal. Pub. Zool., 3, (68, pl. ix, f. 1, x, f. 24, xii, ff. 60, 61, xiii, ff. 71, 77).—*X. simplex* (30, pl. x, ff. 1-3), S.W. coast of Ireland, *suberistatus* (31, pl. x, ff. 4-6), Atlantic, *magnus* (32, pl. x, ff. 7-9), *calaminus* (34, pl. xi, ff. 3-5), Bay of Biscay sp. n., WOLFENDEN, Plankton Studies, 3.

## BRANCHIURA.

*Argulus*; affecting salmon-breeding, LÉGER, Ann. Univ. Grenoble, Paris, 18, (49-55).—*A. purpureus* description, Riggio, Naturalista sicil., 17, (94, pl. ii, ff. 1-2).

## OSTRACODA.

*Ostracoda* of Valdivia-expedition, MÜLLER, Wiss. Ergebn. D. Tiefsee-Exp., 8, (27-154, 31 pls.); of Malay Seas, MÜLLER, Ostracoden der Siboga - Expedition; of Brunswick, LIENENKLAUS, Bonn. Verh. nathist. Ver., 62, (167-172).

†Tertiary *Ostracoda* from Italy, figured; CAPPELLI, Boll. soc. geol. ital., 24, (303-312, pl. ix, x).

*Archiconchoecia enullata* (44), *striata*, *ventricosa* sp. n. (45), MÜLLER, Wiss. Ergebn. D. Tiefsee-Exp., 8, (pl. vii).—*A. striata* description, JUDAY, Berkeley Univ. Cal. Pub. Zool., 3, (16, pl. iii, ff. 1-3).

†*Bairdia beedei* sp. n., *abrupta* var. n., Upper Carboniferous, Kansas, ULRICH and BASSLER, Washington, D.C., U. S. Nation. Mus. Proc., 30, (161, 162, pl. xi, ff. 19-22).

†*Byrrichia?* *radiata*, described, *enaciata* sp. n., Upper Carboniferous, Kansas, ULRICH and BASSLER, T.C. (156, pl. xi, ff. 5, 6).

†*Byrrichiella gregaria* (157, pl. xi, f. 18), *bolliiformis* (158, pl. xi, f. 7, 8) spp. n., *tunida* var. n. (158, pl. xi, ff. 9-11), Upper Carboniferous, Kansas, ULRICH and BASSLER, T.C.

†*Bradleria bergeroni*, *enyo* (99), *eris*, *fragilis* (100), *sterope* (101), *woodi* (102), spp. n., Mid Cambrian, China, WALCOTT, Washington, D.C., Nation. Mus. Proc., 29.

*Candonella albida* sp. n., German E. Africa, VÁVRA, Deutsch Ost-Afrika, Ostracoden (12, f. 3).

*Codonocera weberi* (24, pl. viii, ff. 7-9, ix, ff. 1-6), *penicillum* (25, pl. ix, ff. 15-19), *polygonia* (25, pl. ix, ff. 9-14), *pusilla* (27, pl. vii, ff. 14-20), *goniacantha* (28, pl. vii, ff. 10-13, 21, and 22), spp. n., Malay seas, MÜLLER, Ostracoden der Siboga-Expedition.

*Conchoecia*; Müller describes and figures numerous known species, and the following new: *aequisetata* (59, pl. xi, ff. 1-6 and 11-14), *aliotherium* (59, pl. xi, ff. 15-19), *acuticosta* (87, pl. xxx, ff. 18-21), *acanthophora* (108, pl. xxxv, ff. 2-5 and 13), *amblyoposha* (108, pl. xxiv, ff. 17-22), *ametra* (117, pl. xxvii, ff. 11-12, 14, and 17-19), *antipoda* (110, pl. xxvi, ff. 5-16), *alata* (121, pl. xxix, ff. 1-10), *brachyastros* (70, pl. xiv, ff. 1 and 2, and 7-14), *cellularis* (113, pl. xxviii, ff. 7, 18-28), *chuni* (124, pl. xxxi, ff. 16-28), *cophopyga* (74, pl. xiv, ff. 15-17, 24-26), *ctenophora* (96, pl. xxii, ff. 16-20 and 29), *decepiens* (72, pl. xiii, ff. 27-36), *dentata* (73, pl. xiv, ff. 18-23), *dorsotuberculata* (63, pl. x, ff. 1-3 and 8-13), *dasyopthalma* (66, pl. xi, ff. 20-23 and 26-30), *disco-phora* (67, pl. xiii, ff. 1-9 and 12-18), *distans* (111, pl. xxv, ff. 24-26, and pl. xxvi, ff. 1-4), *dichotoma* (111, pl. xxiv, ff. 23-29, and pl. xxv, f. 1), *edentata* (76, pl. xv, ff. 24-29), *elongata* (125, pl. xxxii, ff. 1-7), *echinata* (61, pl. x, ff. 14-24), *glandulosa* (81, pl. xxx, ff. 29-35), *hellaera* (121, pl. xxix, ff. 11-19), *hirsuta* (60, pl. xi, ff. 1-3 and 6-10), *incisa* (94, pl. xix, ff. 1-11), *isochaira* (84, pl. xiv, ff. 28-31, and pl. xv, ff. 30-33), *kampta* (108, pl. xxiv, ff. 11-12 and 14-16), *kyptophora* (82, pl. xvii, ff. 1-10), *lophura* (99, pl. xx, ff. 1-10), *leptothrix* (122, pl. xxix, ff. 20-26), *macromma* (79, pl. xvii, ff. 11-22), *macrocheira* (101, pl. xxi, ff. 1-9), *mamillata* (60, pl. xvi, ff. 1-9, and pl. xxxv, f. 8), *mollis* (106, pl. xxiv, ff. 1-10 and 13), *nasotuberculata* (83, pl. xviii, ff. 25-30), *orthotrichota* (93, pl. xix, ff. 12-16), *parvidentata* (100, pl. xx, ff. 11-18), *parthenoda* (78, pl. xvi, ff. 24-29), *plactolycos* (114, pl. xxv, ff. 14-20), *plinthina* (116, pl. xxvii, ff. 1-6, 9-10 and 20), *pusilla* (80, pl. xvi, ff. 30-31, 34-37), *prosadene* (120, pl. xxiii, ff. 1-7, 9), *reticulata* (64, pl. xii, ff. 10-17), *rhynchena* (113, pl. xxvi, ff. 17-25), *squamosa* (119, pl. xxviii, ff. 8-17, and pl. xxxv, ff. 6 and 7), *stigmatica* (88, pl. xxx, ff. 22-28), *symmetrica* (117, pl. xxvii, ff. 7, 8, 13, 15 and 16), *tyloda* (109, pl. xxxv, ff. 2-13), *valdiviae* (123, pl. v, f. 3, pl. xxiii, ff. 8 and 10-19), *spp. n.*; Wiss. Ergebn. D. Tiefsee-Exp. 8.—*C. daphnoides* Cl. *minor* (126, pl. xxxi, ff. 1-3, 9, 15), *loricata* Cl. *minor* (96, pl. xxii, ff. 10-15), *magna* Cl. *rhombica* (104, pl. xxi, ff. 21-25), *plactolycos* Müll. *major* (115, pl. xxv, ff. 21-23), *pusilla* Müll. *major* (80, pl. xvii, f. 35), *minor* (80, pl.

xvii, f. 36), *obtusata* Sars *antarctica* (77, pl. xvi, ff. 10-23), varr. n., id. T.c.—*C. giesbrechti* for *oblonga* Müll. praecoec. (75), *striola* for *striata* Müll. praecoec. (91), nomm. n., MÜLLER, T.c.—*C. spinirostris* Cl. (18, pl. iii, ff. 4-7), *magna* Cl. (19, pl. iii, ff. 8-11, pl. xiv, ff. 1, 2), *hyalophyllum* Cl. (20, pl. iv, ff. 3, 4), *clausi* Sars (23, pl. v, ff. 3, 4), *daphnoides* Cl. (26, pl. vii, f. 3), descriptions; *pacifica* for *oblonga* Müll. (21), *mülleri* for *striata* Müll. (24), nomm. n.; *ritteri sp. n.*, Californian coast (25, pl. vi, ff. 6-8, pl. vii, ff. 1-2), JUDAY, Berkeley Univ. Cal. Pub. Zool. 3.—*C. spinirostris* (31, pl. i, f. 7), *subarcuata* (33, pl. i, ff. 8-12), *obtusata* (36, pl. i, ff. 13-19), *oblonga* (38, pl. ii, ff. 21-28), *spinirostris* (40, pl. ii, ff. 29-36), *elegans* (41, pl. ii, ff. 37-40, pl. iii, ff. 41-43), *acuminata* (43, pl. iii, ff. 44-48), *daphnoides* (45, pl. iii, ff. 49-55), *borealis* (48, pl. iii, ff. 56-63, pl. iv, f. 64), *hadroni* (49, pl. iv, ff. 65-75), *agassizii* (50, pl. iv, ff. 76-84, pl. v, ff. 85-91), described, *hamata* (52, pl. v, ff. 92-99); *insignis* (56, pl. v, ff. 105-107, pl. vi, ff. 108-113), *notocera* (58, pl. vi, ff. 114-120), *secernenda* (59, pl. vi, ff. 121-127), *spp. n.*, Atlantic, VÁVRA, Ergebn. Plankton-Exp. 2.—*C. belgicae sp. n.*, Antarctic, MÜLLER, Belgica Ostracoda (4, ff. 1-11).—*C. sibogae* (8, pl. i, ff. 10-20), *concentrica* (10, pl. i, ff. 1-9), *spp. n.*, Malay Seas, MÜLLER, Ostracoden der Siboga-Expedition.

*Crossophorus africanus* description, MÜLLER, Wiss. Ergebn. D. Tiefsee-Exp. 8, (134, pl. xxxiv, ff. 1-9).—*C. gibber sp. n.*, Malay Seas, MÜLLER, Ostracoden der Siboga-Expedition (28, pl. iv, ff. 1-9).

*Cylindroleberis hilgendorfi* (33, pl. v, ff. 1-5), *inermis sp. n.* (34, pl. v, ff. 6-13), Malay Seas; MÜLLER, T.c.

*Cypria javana sp. n.*, Java, MÜLLER, Hamburg Mitt. naturhist. Mus., 23, Beiheft 2, (14, ff. 1-5).

†*Cypridea punctata, posticalis, ventrosa*, forming limestone in Dorset, CHAPMAN, London, Proc. Geol. Ass., 19, (284).

*Cypridella remota sp. n.*, Sumatra VÁVRA, Zool. Jahrb. Syst. 23 (430, pl. xxv, ff. 34-36).

*Cypridina hirsuta sp. n.* (131, pl. xxxiii ff. 1-10); *castanea* Brady (130, pl. v

f. 1, 2, pl. xxxiii, ff. 11-16, pl. xxxiv, ff. 10-13) description; MÜLLER, *Wiss.*, *Ergebn. D. Tiefsee-Exp.*, **8**.—*C. obesa* sp. n., Atlantic, VÁVRA, *Ergebn. Plankton-Exp.* **2** (67, pl. vii, ff. 132b-142).—*C. asymmetrica* (14, pl. vi, ff. 1-12), *hesperida* (15, pl. iii, ff. 21-28), Malay Seas, spp. n.; *flaveola* description (16, pl. iii, f. 28); MÜLLER, *Ostracoden der Siboga-Expedition*.—†*C. subovata* sp. n., Upper Carboniferous Kansas; ULRICH and BASSLER, Washington, D.C., U. S. Nation. Mus. Proc. **30** (162, pl. xi, ff. 23-26).

*Cypridopsis costata* sp. n., German E. Africa, VÁVRA, *Deutsch Ost-Afrika Ostracoden* (11, f. 2).

*Cyprinotus kaufmanni* sp. n., Japan, VÁVRA, *Zool. Jahrb. Syst.* **23** (424, pl. xxiv, ff. 15-20).—*C. elatior* (18, f. 6), *congener* (20, f. 7), *fossulatus* (21, f. 8), spp. n., German E. Africa, VÁVRA, *Deutsch Ost-Afrika Ostracoden*.—*C. sarsi* sp. n., New Zealand, BRADY, London, *Proc. Zool. Soc.*, **1906**, (700, pl. li, ff. 1-11).

*Cypris purpurascens*, VÁVRA, *Zool. Jahrb. Syst.* **23** (422, pl. xxiv, f. 14).—*C. venusta* (23, f. 9), *flabella* (25, f. 10), *puberoides* (27, f. 11), spp. n., German E. Africa, VÁVRA, *Deutsch Ost-Afrika Ostracoden*.—*C. kraepelini* sp. n., Java, MÜLLER, *Hamburg, Mitt. Naturhist. Mus.*, **23**, Beiheft 2, (139, ff. 1-7).

†*Cythere?* *haworthi* sp. n., Upper Carboniferous, Kansas, ULRICH and BASSLER, Washington, D.C., Smithsonian Inst., U. S. Nation. Mus. Proc., **30**, (160, pl. xi, f. 12).

*Cythereis phalaropi*, (378, pl. xxxv, ff. 86-94, pl. xxxvi, ff. 95, 96), *arenicola*, (379, pl. xxxvi, ff. 97-107), *vineyardensis*, (380, pl. xxxvii, ff. 110-114), spp. n., North America, CUSHMAN, Boston, Mass., *Proc. Soc. Nat. Hist.*, **32**.

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# XI. ARACHNIDA

TO WHICH ARE ADDED

GIGANTOSTRACA (XIPIOSURA, TRILOBITA, EURYPTERIDA),  
PANTOPODA, TARDIGRADA, PENTASTOMIDA, MYRIOPODA  
and PROTOTRACHEATA

ARRANGED BY

R. SHELFORD

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## CONTENTS

	PAGE
Gigantostraca.	
I. TITLES=2800 .. .. .	4
II. SUBJECT-INDEX=2803-2827 :—	
Physiology=2811 .. .. .	6
Distribution (Geological and Geographical)=2827 ..	6
III. SYSTEMATIC=2831 :—	
Trilobita .. .. .	7
Xiphosura .. .. .	11
Eurypterida .. .. .	11
Pantopoda.	
I. TITLES=2800 .. .. .	12
II. SUBJECT INDEX=2803-2827.. .. .	12
III. SYSTEMATIC .. .. .	12
(N-9720 n)	c 6

## Arachnida.

I. TITLES .. .. .	13
II. SUBJECT-INDEX :—	
Hyperzoology .. .. .	22
Structure .. .. .	23
Physiology .. .. .	23
Development.. .. .	23
Ethology .. .. .	23
Evolution .. .. .	24
Geography .. .. .	24
III. SYSTEMATIC :—	
Scorpiones .. .. .	27
Pedipalpi .. .. .	27
Palpigradi .. .. .	28
Araneae .. .. .	28
Aviculariidae .. .. .	28
Uloboridae.. .. .	28
Psechridae .. .. .	28
Zoropsidae .. .. .	29
Dictynidae.. .. .	29
Eresidae .. .. .	29
Filistatidae .. .. .	29
Oonopidae .. .. .	29
Sicariidae .. .. .	29
Dysderidae .. .. .	30
Drassidae.. .. .	30
Zodariidae.. .. .	31
Urocteidae.. .. .	31
Pholcidae .. .. .	31
Theridiidae .. .. .	31
Argiopidae .. .. .	32
Mimetidae.. .. .	34
Thomisidae .. .. .	34
Clubionidae .. .. .	35
Agelenidae .. .. .	37
Pisauridae .. .. .	37
Lycosidae .. .. .	37
Oxyopidae.. .. .	38
Salticidae .. .. .	38
Solifugae .. .. .	40
Pseudoscorpiones .. .. .	40
Opiliones .. .. .	41

	PAGE
Acari .. .. .	41
Hydrachnidae .. .. .	41
Ixodidae .. .. .	43
Other families .. .. .	44
Tardigrada .. .. .	49
Pentastomida .. .. .	49
 Myriopoda.	
I. TITLES=3400 .. .. .	50
II. SUBJECT-INDEX=3403-3427 .. .. .	52
Structure=3407 .. .. .	52
Physiology=3411 .. .. .	52
Development=3415.. .. .	52
Ethology=3419 .. .. .	52
Geographical Zoology=3427 .. .. .	52
III. SYSTEMATIC=3431 .. .. .	53
Chilopoda .. .. .	53
Diplopoda .. .. .	53
Paupoda .. .. .	54
 Prototracheata.	
I. TITLES=3200 .. .. .	55
II. SUBJECT-INDEX=3203-3227 .. .. .	55
III. SYSTEMATIC=3231 .. .. .	55

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### PHYSIOLOGY = 2811.

Reactions of *Limulus* in early stages; **Fearl**.

Physiology of the heart in *Limulus*; **Carlson, 1, 2, 3, Newman**.

### DISTRIBUTION = 2827.

(Geological and Geographical.)

China, fossil localities; **Ogawa**.

### Cambrian.

Great Britain, *Trilobita* 2 spp. n.; **Lake, 1**.

China, *Trilobita* 3 genn. n., 10 spp. n., 2 varr. n.; **Lorenz**.

China, *Trilobita* genn. n., spp. n., varr. n.; **Walcott**.

Coulouma, *Trilobita* 5 spp. n.; **Miquel**.

Nevada, *Trilobita* 2 spp. n.; **Pack**.

### Ordovician.

British Isles, *Trilobita* spp. n., varr. n.; **Reed**.

Bohemia, *Trilobita* and *Eurypterida*; **Siemiradski**.

Bohemia, *Eurypterida* 1 sp. n.; **Seemann**.

Canada, *Trilobita* 1 sp. n.; **Narraway** and **Raymond**.

United States, *Trilobita*; **Hudson**.

(New York, Chazy limestone, *Trilobita*; **Raymond**.)

### Silurian.

Sweden, *Trilobita* 18 spp. n.; **Olin, Persson, Post, Törnquist, Wiman**.

Eastern shores of Baltic, *Trilobita* 2 spp. n., 4 varr. n.; **Schmidt, 2**.

Russia, *Trilobita* 6 spp. n., 2 var. n.; **Lamanskij**.

British Isles, *Trilobita* spp. n., varr. n.; **Reed**.

Bohemia, *Trilobita* 2 spp. n.; **Želízko, 1, 2**.

Canada, *Trilobita* 2 spp. n.; **Whiteaves, 1, 2**.

New York, *Trilobita*; **Clarke** and **Ruedmann, 2**.

Bolivia, *Trilobita* 2 spp. n.; **Lake, 2**.

### Devonian.

British Isles, Cornwall, [*Trilobita*]; **Woodward, 1**.

South Africa, *Trilobita*, 8 spp. n.; **Schwarz**.

Columbia County, New York, *Trilobita* 5 spp. n., 1 var. n.; **Clarke, 1**.

Western New York, *Trilobita*; **Slocum**.

Eastern New York, *Trilobita*; **Grabau**.

Indiana, *Trilobita*; **Cumings**.

Lower Amazons, *Trilobita*; **Schuchert**.

### Carboniferous.

Yorkshire, British Isles, *Trilobita* **Woodward, 2**.

Italy, *Trilobita*; **Gortani 1**.



Hungary, *Trilobita*; **Frech.**

Permo-Carboniferous; Italy, *Trilobita*  
var. n.; **Gortani, 2.**

### Jurassic.

Sweden, *Limulus* 1 sp. n.; **Jackson.**

## III.—SYSTEMATIC=2831.

### † TRILOBITA.

*Trilobita* from Cambrian, Great Britain, LAKE London, Monogr. Palaeont. Soc. 60 Part I (1-28) pls. i and ii.

*Trilobita* from Cambrian of Black Mountain, Coulouma, MIQUEL Paris Bul. soc. géol. (4) 5 (465-483).

*Trilobita* from Palaeozoic, Ayrshire, Scotland REED London, Monogr. Palaeont. Soc. 60 (97-186) pls. xiv-xx.

*Acidaspis törnquisti* sp. n. Silurian, Sweden OLIN Lund, Univ. Årssk. N. F. 2 ii 3 (49) pl. i f. 18, 19.—*A. perarmata* description WHITEHEADS Palaeoz. Fossils 3 pt. 4 (289) pl. xlii f. 3.

*Agnostus securiger* (20) pl. ii f. 11, *calvus* (23) pl. ii f. 18, Cambrian, England, spp. n., LAKE London, Monogr. Palaeont. Soc. 60 Part I.—*A. trinodus* (72) pl. iv f. 15, 16; *cingulatus* (72) pl. iv f. 17 Silurian, Sweden sp. n., OLIN Lund Univ. Årssk. N. F. 2 ii 3.—*A. fallax*, *laevuensis* (82) pl. iv. ff. 7, 8, v ff. 8 and 9, *parvifrons*, *latelimbatus* (84) pl. iv f. 9, v ff. 10, 11, varr. n., Mid Cambrian, China, LORENZ Berlin Zs. D. geol. Ges. 58.—*A. lensanensis* sp. n. Mid Cambrian, Shantung, WALCOTT Washington D. C., Nation. Mus. Proc. 29 (22).

*Agraulos abaris* (42), *abrota*, *acalle*, (43), *agenor*, *dirce*, (44), *divi*, *dolon*, (45), *dryas* (46), spp. n., Mid Cambrian, Shantung WALCOTT T. c.—*A. armatus*, *nitida*, (576), *obscura* (577), *regularis* (578), *uta*, *vicina* (579), (?) *capax* (580), *melie* (581), spp. n., Mid. Cambrian, China WALCOTT op. cit. 30.

*Alokistocare* gen. n. for *Ptychoparia subcoronata* LORENZ Berlin Zs. D. geol. Ges. 58 (62).

*Ampton* gen. n., *steinmanni* sp. n. Mid Cambrian, China, LORENZ, Berlin Zs. D. geol. Ges. 58 (66, 75) pl. iv ff. 15-17.

*Ampyx incurvus* sp. n. Ordovician, Scotland, REED London, Monogr. Palaeont. Soc. 60 (161) pl. xx ff. 6-8.—*A. portlocki* (69) pl. iv ff. 5-8, *rostratus* (70) ff. 9 and 10, *tenellus* (71) ff. 11, 12; *globifrons* (71) f. 13 sp. n. Silurian Sweden; OLIN Lund Univ. Årssk. N. F. 2 ii 3.

*Anomocare aleinoc*, *bergioni*, (47), *bianos* (48), *biston*, ? *butes*, (49), ? *daulis* (50), *daunus* (51), *decelus* (52), *tatian*, *temenus*, (53), spp. n., Mid Cambrian Shantung, WALCOTT Washington, D. C. Nation. Mus. Proc. 29.—*A. bigsbyi* (581), *eriopia* (582), *flava* (583), spp. n., Mid Cambrian, China WALCOTT op. cit. 30.—*A. commune*, (63, 77) pl. iv ff. 10, 11, 13, 14, *ovatum*, (77) f. 12, *speciosum* (77) pl. v ff. 6, 7, spp. n. Mid Cambrian China, LORENZ Berlin Zs. D. Geol. Ges. 58.

*Anomocarella* gen. n., *albion* (54), *baucis* (55), ? *burca*, *carne*, (56), *chinensis* (57), spp. n., Mid Cambrian Shantung WALCOTT Washington D. C. Nation. Mus. Proc. 29.—*A. contigua*, *irma*, spp. n. Mid. Cambrian, China WALCOTT op. cit. 30 (584).

*Areia succica* sp. n. Silurian, Sweden, OLIN Lund Univ. Årssk N. F. 2 ii 3 (46) pl. i ff. 10-12.

*Arionellus agonius*, *ajax*, (58), *alala* (59), spp. n. Mid Cambrian Shantung, WALCOTT Washington D. C. Nation. Mus. Proc. 29.

∇ *Asaphus boehmi* sp. n. Mid Cambrian China LORENZ Berlin Zs. D. geol. Ges. 58 (84) pl. vi, ff. 4 and 5.—*A. priscus* sp. n. (62, 173), *eichwaldi expansoides*, *lepiduroides*, varr. n. (63, 173) Silurian, Russia LAMANSKIJ St. Petersburg, Mém. com. géol. N. ser. 20.

(*Bathypirellus brevispinus* (337) pl. x ff. 13-15; *minor* (338) pl. x f. 16, spp. n. Chazy limestone, New York RAYMOND, Ann. Carnegie Mus., 3.)

*Bathypirellus asiaticus* sp. n. Mid Cambrian, China LORENZ Berlin Zs. D. geol. Ges. 58 (66, 73) pl. v ff. 1-5.—*B. howelli* (296) pl. ii ff. 2 and 2a, *productus* (297) ff. 3 and 3a, Cambrian, Nevada PACK J. Geol. Chicago Ill. 14.

*Blackwelderia* gen. n., for *Olenoides? cilix* Walc. WALCOTT Washington, D. C., U. S. Nation. Mus. Proc., 30 (573-575).

*Bronteus ekwanensis*, *aquilonaris* spp. n. Upper Silurian Canada WHITEAVES Rep. Geol. Surv. Can. Ottawa 14 (58 F).—*B. ekwanensis* (266) pl. xlii f. 1, *aquilonaris* (267) f. 2, descriptions, WHITEAVES Palaeoz. Fossils 3 pt. 4.

*Calymene blumenbacki*, *drummuckensis* var. n., Ordovician Scotland, REED London, Monogr. Palaeont. Soc. 60 (135) pl. xvii f. 14 xviii ff. 1-4.—*C. niagarensis* figured CLARKE and RUEDEMANN Albany Univ. N.Y. Mem. St. Mus. Mem. 5 (107) pl. xxi f. 12.—*C. planimarginata* sp. n. Ordovician Scotland REED London, Monogr. Palaeont. Soc. 60 (137) pl. xvii f. 15.

*Ceraurus hudsoni* sp. n. Chazy limestone New York RAYMOND Ann. Carnegie Mus., 3, (367) pl. xiv f. 15.)

*Chirurus clasonii* sp. n. Silurian Sweden, TÖRNQUIST Stockholm Geol. Förh. 27 (455).—*C. mars* sp. n. Ordovician Lake Champlain HUDSON Albany Univ. N.Y. Rep. St. Mus. 57 Part 1 1905 (295) pl. v ff. 1-2.—*C. (Sphaerocoryphe) thomsoni* sp. n. Ordovician Scotland REED London Monogr. Palaeont. Soc. 60 (146) pl. xviii f. 17, xix ff. 1-7.

*Chondroparia* gen. n. for *Agraulos pusillus* LORENZ Berlin Zs. D. geol. Ges. 58 (67).

*Cordania becraftensis* (22) pl. ii ff. 19-23, *hudsonica* (24) ff. 17 and 18, spp. n., Devonian New York CLARKE Albany Univ. N.Y. Mem. St. Mus. 3 No. 3 1900.

*Corynexochus delagei* sp. n. Cambrian Coulouma MIQUEL Paris, Bul. soc. géol. 5 (481) pl. xv f. 4.

*Crepicephalus damia* sp. n. Mid Cambrian Shantung WALCOTT Washington D.C., Nation. Mus. Proc. 29 (92).

*Cybele ella* sp. n. Ordovician Ottawa NARRAWAY and RAYMOND Pittsburg Pa. Ann. Carnegie Mus. 3 (600-602).—*C. loveni girvanensis* var. n., Ordovician Scotland REED London, Monogr. Palaeont. Soc. 60 (126) pl. xvii ff. 1-4.—*C. prima* Raym. = *Cybele valcourensis* Raym. = *Glaphurus primus*, Raym. NARRAWAY and RAYMOND Pittsburg Pa. Ann. Carnegie Mus. 3 (603).

*(Cybele valcourensis* sp. n. Chazy limestone New York RAYMOND, Ann. Carnegie Mus., 3, (362) pl. xiv f. 9.)

*Cyphaspis minuscula* Devonian, New York, CLARKE Albany Univ. N.Y. Mem. St. Mus. 3 No. 3 (24) pl. ii ff. 24 and 25.

*Dalmanites paituna*, *maecurua*, Bolivia LAKE London Q. J. Geol. Soc. 62 (429) pl. xl ff. 9-11.—*D. (Synphoria) stemmatus* sp. n. (15) pl. i ff. 6-16, ii ff. 1 and 2, *convergens* var. n. (19) pl. ii ff. 3-5, *bisignatus* sp. n. (19) ff. 6-8; *phacoptyx* described (19) pl. ii f. 10 Devonian New York, CLARKE Albany Univ. N.Y. Mem. St. Mus. 3 No. 3.

*Damesella* gen. n. (34), *blackwelderi* (35), *bellagranulata* (38), *brevicaudata* (39), *chione* (40), Mid Cambrian Shantung, spp. n., WALCOTT Washington D.C. Nation. Mus. Proc. 29.

*Diaphanometopus lineatus* described WIMAN Upsala Bull. Geol. Inst. 7 No. 13-14 (29) pl. xxix ff. 16-20.

*Dikelocephalus* ? *baubo* (91), ? *brizo* (92), spp. n., Mid Cambrian Shantung, WALCOTT Washington, D.C., Nation. Mus. Proc. 29.

*Dindymene cornuta* (50) pl. i f. 20, *pulchra* (50) f. 21, *spinulosa* (51) f. 22, *venusta* (52) f. 23, spp. n. Silurian Sweden OLIN Lund Univ. Årsskr. N.F. 2 ii 3.

*Dionide formosa* figured ŽELÍZKO Prag Rozpr. České Ak. Frant. Jos. 15 No. 42 (18) pl. i f. 7.

*Dolichometopus alceste*, *deois*, (94), *derceto* (95), *dirce* (96), Mid Cambrian Shantung, WALCOTT Washington D.C. Nation. Mus. Proc. 29.—*D. hyrie* sp. n. Mid Cambrian China WALCOTT Op. cit. 30 (594).

*Dorypyge bispinosa* sp. n. Mid Cambrian Shantung, WALCOTT Op. cit. 29 (28).—*D. richthofeni laevis* var. n. Mid Cambrian China WALCOTT Op. cit. 30 (573).

*Dorypygella* gen. n., *typicalis*, (29), *alastor* (31), *alcon* (33), spp. n., Mid Cambrian Shantung WALCOTT Op. cit. 29.

*Ellipsocephalus muticus* described WIMAN Upsala Bull. Geol. Inst. 7 No. 13-14 (289) pl. xxix ff. 11, 12.

*Eurycare latum* (513) pl. viii ff. 1-7, *angustatum* (517) pl. ix ff. 9-13, descriptions, PERSSON Stockholm Geol. Förh. 26.

(*Glaphurus primus* sp. n. Chazy limestone, New York RAYMOND Ann. Carnegie Mus., 3, (362) pl. xiv ff. 7-8.)

*Griřfulhides barkei* in carboniferous deposits, Yorkshire WOODWARD Yorks. Proc. Geol. Soc. 16 1906 (84-86).—*G. dobsimensis* (26, 129) pl. i f. 1, *minor* (25, 128) ff. 2, 3, descriptions, FRECH, Földt. Közl., 36.

*Holocephalina holocephala* sp. n. Cambrian Coulouma MIQUEL Paris, Bul. Soc. géol. 5 (479) pl. xv f. 2.

*Holometopus*; synonymy WIMAN Upsala Bull. Geol. Inst. 7 No. 13-14 (293).

*Homalonotus herscheli* (383) pl. viii f. 8, ix f. 3, *horridus* (385) pl. ix f. 1, *agrestis* (386) f. 2, *hippocampus* (388) f. 5, *lex* (389) f. 4, spp. n. Devonian Cape Colony SCHWARZ Grahamstown, S. Africa, Rec. Albany Mus. 1.

*Illaenurus canens* (96), *ceres* (97), *dictys* (98), Mid Cambrian Shantung WALCOTT Washington D.C., Smithsonian Inst., Nation. Mus. Proc. 29.

*Illaenus angelini* (65) pl. iii f. 11, *megalophthalmus* (65) ff. 12 and 13 descriptions; *longifrons* sp. n. (65) ff. 14-16 Silurian, Sweden OLIN Lund, Univ. Årssk. N.F. 2 ii 3.—*I. memorabilis* sp. n. Ordovician Scotland REED London Monogr. Palaeont. Soc. 60 (165) pl. xx f. 9.

(*Illaenus punctatus* (347) pl. xiii f. 10, *erastusi* (351) ff. 8-9, spp. n. Chazy limestone, RAYMOND New York Ann. Carnegie Mus. 3.)

(*Isotelus harrisi* (343) pl. xii ff. 3-7, *angusticaudum* (345) pl. xiii ff. 3 and 4, (?) *bearsi* (345) pl. x ff. 21-25, spp. n. Chazy limestone, New York RAYMOND, Ann. Carnegie Mus. 3.)

*Leptoplastus ovatus* (520) pl. ix ff. 17-23, *stenotus* (522) ff. 14-16, descriptions PERSSON Stockholm Geol. För. Förh. 26.

*Lichapyge* (?) *problematica* sp. n. Ordovician Scotland REED London Monogr. Palaeont. Soc. 60 (110) pl. xv ff. 8-10.

*Lichas grayi scoticus* var. n., Silurian Scotland REED T.c. (100) pl. xiv ff. 5-10.

*Lioparia* gen. n. *blautocides* sp. n. Mid Cambrian China LORENZ Berlin Zs. D. geol. Ges. 58 (59, 78) pl. vi ff. 1-3.

*Liostracrus couloumanus* sp. n. Cambrian Coulouma MIQUEL Paris Bul. soc. géol. 5 (483) pl. xv f. 3.—*L. latus* sp. n.

Mid Cambrian China; LORENZ Berlin Zs. D. geol. Ges. 58 (81) pl. v f. 15; *P. intermedia*, *subrugosa* spp. n., Mid Cambrian China WALCOTT Washington D.C. Nation. Mus. Proc. 30 (592).

*Maerotoxus* gen. n. for *Anomocare angelini* and *Conocephalites perseus*, LORENZ Berlin Zs. D. geol. Ges. 58 (61).

*Megalaspides schmidti* sp. n. Silurian Russia LAMANSKIJ St. Peterburg Mém. com. géol. N. ser. 20 (8) pl. i f. 4.

*Megalaspis*; characteristics and revision (1-9), *lawae* (20) pl. i f. 8, *knyrkoi* (37), spp. n.; *polyphemus törnquisti* (23) pl. ii f. 6, *minor* (25) pl. i ff. 5-7, *lamanskii* (27) pl. ii ff. 7 and 8, *knyrkoi* (29) f. 9, varr. n. Silurian East Baltic SCHMIDT St. Peterburg, Mém. Ac. Sc. 19.—*M. leuchtenbergi* (7) pl. i f. 2, *pogrebowi* (8) f. 3, spp. n., Silurian Russia LAMANSKIJ St. Peterburg Mém. com. géol. N. Ser. 20.

*Megalophthalmus* gen. n. for *Liostracrus megalurus* and *Anomocare minus* LORENZ Berlin Zs. D. geol. Ges. 58 (62).

*Menocephalus acerius*, *acis*, (60), *admeta*, *adrastia*, (61), *agave*, *belenus*, ? *depressus*, (62), spp. n. Mid Cambrian Shantung WALCOTT Washington D.C. Nation. Mus. Proc. 29.

*Microdiscus orientalis* sp. n. Mid Cambrian China, WALCOTT T.c. (24).

*Nileus armadillo* characters WIMAN Stockholm Geol. För. Förh. 26 1904 (87-90).

*Ogygia* sp. Bolivia, LAKE London Q. J. Geol. Soc. 62 (428) pl. xl ff. 6 and 7.

*Olenoides* (?) *cilix* sp. n. Mid Cambrian China WALCOTT Washington D.C. Nation. Mus. Proc. 29 (27).

*Onchometopus schmidti* sp. n. Silurian Russia LAMANSKIJ St. Peterburg Mém. com. géol. N. Ser. 20 (64, 173).

*Pagodia* gen. n. (63), *lotos* (64), *bia* (65), *dolon*, *macedo*, (66), spp. n., Mid Cambrian Shantung WALCOTT Washington D.C., Nation. Mus. Proc. 29.

*Paradoxides rouvillei* sp. n. Cambrian Coulouma MIQUEL Paris Bul. soc. géol. 5 (478) pl. xv f. 1.—*P. tessini* described WIMAN Upsala Bull. Geol. Inst. 7 No. 13-14 (288) pl. xxix ff. 1-10.

*Pelbura* sp. Bolivia, LAKE London Q. J. Geol. Soc. 62 (426) pl. xl f. 1.

*Phacops* ? *arbutus* Bolivia LAKE T.c. (428) pl. xl f. 8.—*P. eucentra* (41) pl. i ff. 1-3, *recurva* (42) ff. 4 and 5 descriptions; *ecclesiastica* (43) pl. i f. 6, *sandbyensis* (44) f. 7, **spp. n.**, Silurian Sweden OLIN Lund Univ. Årssk. N.F. 2 ii 3.—*P. correlator* **sp. n.** (20) pl. ii f. 9; *logani* (21) pl. i ff. 1-5 described, Devonian New York CLARKE Albany Univ. N.Y. Mem. St. Mus. 3 No. 3.—*P. crista-galli* (392) pl. x f. 6; *callitris* (393) f. 2, *ceres* (394) f. 1, *gydowi* (396) f. 3, *acacia* (398) f. 4, **spp. n.**, Devonian Cape Colony SCHWARZ Grahamstown, S. Africa, Rec. Albany Mus. 1.—*P. latifrons* (58), *granulatus* (60), *punctatus* (61), Devonian Cornwall WOODWARD Penzance Trans. R. Geol. Soc. Cornwall 13.—*P. (Chasmops) bisseti* **sp. n.** Ordovician Scotland REED London Monogr. Palaeont. Soc. 60 (157) pl. xx ff. 1-3.—*P. (Chasmops) bohemicus* **sp. n.** Silurian Bohemia ŽELIŽKO Prag Rozpr. České Ak. Frant. Jos. 15 No. 42 (19) pl. i f. 8.

*Phillipsia* **spp.** Carboniferous Italy, figures GORTANI Boll. soc. geol. ital. 24 (587-589) pl. xv ff. 34-37.—*P. pulchella alpina* var. n. Permo-Carboniferous Italy GORTANI Palaeontogr. Italica 12 (69) pl. iii f. 36.

*Pliomera linnarssoni* **sp. n.** Silurian Sweden WIMAN Upsala Bull. Geol. Inst. 7 No. 13-14 (293) pl. xxix ff. 13-15.

*Proctus covradi* description CLARKE Albany Univ. N.Y. Mem. St. Mus. 3 No. 3 (25) pl. ii ff. 11-16.—*P. scanicus* **sp. n.** Silurian Sweden OLIN Lund Univ. Årssk. N.F. 2 ii 3, (59) pl. ii f. 17.

(*Proëtus clelandi* **sp. n.** Chazy limestone, New York RAYMOND, Ann. Carnegie Mus., 3, (354) pl. xiii ff. 13-14.)

*Pseudosphaerexochus laticeps* (47) pl. i f. 13, description, *ravni* **sp. n.** (48) pl. i f. 14, Silurian Sweden OLIN Lund, Univ. Årssk. N.F. 2 ii 3.

(*Pseudosphaerexochus approximatus* (369) pl. xiv f. 18, *chazyensis* (370) ff. 19, 20, **spp. n.**, *vulcanus* var. *billingsi* var. n. (369) fig. 17 Chazy limestone, New York, RAYMOND, Ann. Carnegie Mus. 3.)

*Ptercephalus asiatica* (67), *busiris* (68), **spp. n.** Mid Cambrian Shantung WALCOTT Washington D.C. Nation. Mus. Proc. 29.

(*Pterygometopus annulatus* **sp. n.** Chazy limestone, New York RAYMOND, Ann. Carnegie Mus., 3, (376).)

*Ptychaspis acamus*, *cacus*, (69), *cadmus* (70), *calchas* (71), *callisto*, *calyce*, (72), *campe*, *ceto*, (73), **spp. n.** Mid Cambrian Shantung WALCOTT Washington D.C. Nation. Mus. Proc. 29.—*P. bella* **sp. n.** Mid Cambrian China WALCOTT Op. cit. 30 (585).

*Ptychoparia aelis*, ? *batia*, (75), ? *bromus*, *ceus*, (76), *constricta* (77), *dryope*, *granulosa*, *impar*, (78), *ligea*, *mantoensis*, (79), *tellus*, *tenes*, (80), *titiana* (81), *theoano*, *tolus*, (82), *P. (Liostracus) toxens*, *trogus*, (83), *tulia* (84), *thraso* (85), *P. (Proanopyx) burea* (86), **spp. n.**, Mid Cambrian Shantung WALCOTT Op. cit. 29.—*P. comus* (586) *inflata* (587), *lilia*, *nevris* (588), *undata* (589), *vesta* (590) ? *maia* (592), **spp. n.**, Mid Cambrian, China; WALCOTT, Op. cit. 30.—*P. piochensis* (297) pl. ii. ff. 4-4c description, *kempi* **sp. n.** (298) pl. iii f. 1 Cambrian Nevada PACK J. Geol. Chicago Ill. 14.—*P. (Liostracus) intermedia*, *subrugosa*, **spp. n.** Mid Cambrian China WALCOTT, Washington, D.C. Nation. Mus. Proc. 30 (592).

*Ptychopyge* (?) *inostranzewi* **sp. n.** Silurian Russia LAMANSKIJ St. Petersburg Mém. com. géol. N. ser. 20 (9) pl. i f. 5.

*Redlichia chinensis* (25), *finalis*, *nobilis* (26), **spp. n.** Mid Cambrian Shantung WALCOTT Washington D.C. Nation. Mus. Proc. 29.

*Remopleurides radians* (54) pl. ii ff. 1 and 2 description; *latus* **sp. n.** (55) ff. 5-9 Silurian Sweden OLIN Lund Univ. Årssk. N.F. 2 ii 3.

*Schantungia* **gen. n.** *buchruckeri* (79) pl. v f. 16, *monkei* (81) ff. 17 and 18, **spp. n.** Mid Cambrian, China, LORENZ Berlin Zs. D. geol. Ges. 58.

*Schantungia* **gen. n.** *spinifera* **sp. n.** Mid Cambrian Shantung China WALCOTT Washington D.C. Nation. Mus. Proc. 29 (87).

*Solenopleura abderus*, *acantha*, (88), *acidalia*, *agno*, (89), *belus* (90), *beroe* (91), **spp. n.** Mid Cambrian Shantung WALCOTT T.c.—*S. pauperata* **sp. n.** Mid Cambrian China WALCOTT Op. cit. 30, (593).

(*Sphaerocorphe goodnovi* **sp. n.** Chazy limestone New York RAYMOND, Ann. Carnegie Mus., 3, (371) pl. xiv f. 23.)

*Stromatocystites cannati* sp. n. Cambrian Coulouma MIQUEL Paris Bul. soc. géol. 5 (482) pl. xv f. 5.

*Symphysurus apolonista* sp. n. Bolivia LAKE London, Q. J. Geol. Soc. 62, (427) pl. xl ff. 2 and 3.—*S. superstes* sp. n. Silurian Sweden OLIN Lund Univ. Årssk. N.F. 2 ii 3 (64) pl. iii ff. 6-9.

*Trachyostracus* gen. n. for *Solenopleura howleyi* and *Ptychoparia limbata*, LORENZ Berlin, Zs. D. geol. Ges. 58 (60).

*Triarthrus angelini* description LAMANSKIJ St. Peterburg. Mém. com. géol. N. ser. 20 (6) pl. i. f. 1.

*Trinucleus alfredi* sp. n. Silurian Bohemia ŽELÍZKO Prag Rozpr. Česk. Ak. Frant. Jos. 15 No. 42 (16) pl. i ff. 1-6.—*T. boliviensis* sp. n. Bolivia LAKE London Q. J. Geol. Soc. 62, (427) pl. xl ff. 485.—*T. bucklandi* (66) pl. iv f. 1, *cerioides* (67) f. 2 descriptions, *elliptifrons* sp. n. (68) f. 3 Silurian Sweden OGIN Lund Univ. Årssk. N.F. 2 ii 3.

*Zacanthoides typicalis* (299) pl. iii, ff. 2-2f. *grabau* (300) ff. 3-3b, Cambrian Nevada PACK J. Geol. Chicago Ill. 14.

## XIPHOSURA.

*Limulus*; early stages, physiology PEARL J. Comp. Neur. Granville Ohio 14 (138-164); physiology of the heart CARLSON Amer. J. Physiol. Boston Mass. 15 (99-120) Op. cit. 16 (378-408) Op. cit. 17, (177-210); NEWMAN Op. cit. 15 (371-386). †*L. nathorsti* sp. n. Jurassic Sweden JACKSON Ark. Zool. Stockholm 3 No. 11 (1).

## † EURYPTERIDA.

*Eurypterida* of Bohemia SEEMANN Wien, Beitr. Pal. Geol. OestÜng. 19 1906 (49-57) pl. iv.

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## Geography.

Naples, *Nymphon* sp. n.; **Merton.**

Bahamas, *Nymphon* sp. n.; **Cole, 1.**

Antarctic, *Ammotheca* 2 spp. n.; **Bouvier.**

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# ARACHNIDA I. SP.

## (INCL. TARDIGRADA, PENTASTOMIDA)

### CONTENTS (see p. 2)

#### I.--TITLES.

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## II.—SUBJECT-INDEX.

### HYPERZOOLOGY=3003.

#### Economics.

*Acari* as disease distributors; **Dönitz, 2, Buy.**

*Ixodidae* as distributors of diseases; **Balfour, 1, Cantlie, Koch, R., Ross, Theobald.**

*Acari* as intermediate hosts of haemogregarines; **Balfour, 2.**



Transmission of *Kedani*-disease by *Leptus autumnalis*; **Tanaka**.

Economic notes on harvest mites (*Trombidium*); **Chittenden**.

Different species of *Eriophyes* infesting identical trees; **ColIinge**.

*Acari* parasitic on cassava plants; **Cramer**.

*Acari* injurious to vegetation; **Gerber**, **Noel**, 2.

*Acari* in fodder; **Lucks**.

*Acari* on apples; **Ludwig**, 1.

### Methods of Research.

Method of mounting *Araneae*; **Desmaisons**.

Collecting *Hydrachnida*; **Wolcott**.

Preservation of spiders' webs; **Lutz**.

### STRUCTURE=3007.

#### General.

Anatomy of *Boophilus annulatus*; **Allen**, **Williams**.

Of *Ixodidae*; **Buy**, **Christophers**, **Wheler**. Of *Ixodes*; **Bonnet**, 2, **Nordenskiöld**, **Suworow**.

Of *Holothyridae*; **Thon**, 4; of *Lebertia*; **Thor**, 1, 2, 3.

Of *Hydrachnida*; **Thon**, 3.

Of *Pseudoscorpiones*; **With**.

Structure of body in *Araneae*; **Dahl**, 2.

#### Special.

Glands in *Ixodes*; **Nordenskiöld**, 2.

Repugnatorial glands of *Holothyrus* (*Oribatidae*); **Thon**, 1.

Anatomy and histology of sexual organs of *Araneae*; **Strand**, 9.

Sexual characters of tarsal joints in *Pedipalpi*; **Schwangart**, 2.

Genital tracheae of *Chernetidae* and *Acari*; **Oudemans**, 16, 17.

Respiratory organs of *Acari*; **Oudemans**, 4, 6.

Mandibles of *Acari* compared with legs; **Oudemans**, 4, 5.

Mouth parts of *Haemaphysalis punctata*; **Nuttall**, **Cooper** and **Smedley**.

Genital organs in *Ixodes*; **Bonnet**.

Histology of porous area, eyes and poison glands of *Ixodidae*; **Bonnet**, 3.

### PHYSIOLOGY=3011.

Influence of sound on *Araneae*; **Lécaillon**, 1.

Effect of scorpion stings; **Green**, **Gros**.

Venom of *Araneae*; **Mitchell**.

Regeneration and autotomy of legs in *Tegenaria*; **Friedrich**.

### DEVELOPMENT=3015.

Spermatogenesis of *Ixodidae*; **Bonnet**, 1; of *Araneae*; **Wallace**.

Histology of ova, *Araneae*; **Strand**, 9.

Chromosomes in *Epeira*; **Berry**.

Structure of egg in *Tegenaria*; **Van der Stricht**.

Eggs of *Tardigrada*; **Murray**, 2.

Eggs of *Hydrachnida*; **Thon**, 3.

Structure of ovum in *Ixodidae*; **Christophers**.

Development of *Thelyphonis*; **Schimmkewitsch**, 1, 2.

### ETHOLOGY=3019.

#### Miscellaneous.

Structure of nest of *Argyroneta aquatica*; **Uyttenboogaart**.

Oviposition, dimorphism of eggs, cocoon, hatching of *Theridium tepidariorum*; **Montgomery**, 1, 2.

Egg-laying of *Buthus europaeus*; **Mingaud**, 2.

Change of colour of eyes in *Salticidae*; **Strickland**.

Cocoons and webs of spiders; **Scheffer**, 1.

(Webs and cocoons of Australian *Araneae*; **Rainbow**, 3.)

Structure of spiders' webs; **Comstock, Desmazières.**

Plant shelters of *Acari*; **Wildeman.**

Food of *Uropodinae*; **Reuter.**

Food of *Cepheus* sp. n.; **Heim and Oudemans, 1.**

Feeding experiment on *Nephila maculata*; **Shelford.**

Instincts of *Araneae*; **Lécaillon, 2.**

(Earwigs devouring spiders; **Planet, 2.**)

Defensive attitudes of scorpion and solifugid; **Faussek.**

Colour-change and protective colouration in *Misumena vatia*; **Packard.**

### Habits.

Habits of *Buthus eupeus thersites*; **Birula, 5**; of *Phalangida*; **Falconer, 2**; of *Araneae*; **Thesing**; (of Australian *Araneae*; **Rainbow, 3**); (of *Agelena labyrinthica*; **Lécaillon, 3**); of *Pirata piraticus*; **Trani**; of *Teutana grossa*; **Tullgren, 1**; of *Tyroglyphinae*; **Maurizio**; of *Ixodidae*; **Lounsbury**; of *Ornithodoros moubata*; **Newstead, Wellman**; of *Trombidium*; **Maxwell-Lefroy.**

A free-living *Phyllocoptes*; **Börner.**

### Habitats.

Cavernicolous *Arachnida*; **Simon, 4, 6**; **Peyerimhoff, 1.**

Rock-boring mite; **Banks, 4.**

*Acari* in houses; **Jarvis, 2.**

### Parasitism.

*Acari* in nasal cavities of seal; **Blanchard.**

*Acari* as human skin parasites; **Oudemans, 5.**

Acarine parasite of the beaver; **Mingaud, 1.**

Bird parasite; **Klee.**

Parrotquet parasites; **Favette and Trouessart.**

Parasites of *Cypselus*; **Speiser.**

Locust parasites; **Jarvis, 1.**

(Mosquito larvae parasitised by *Hydrachnida* larvae; **Dyé.**)

*Argas reflexus* parasite of pigeons; **Noël, 1.**

Parasitism of *Ornithodoros moubata*; **Newstead.**

*Ixodes* in numbers on horses; **Junack.**

*Ixodes* on puffins and petrels; **Evans, 2.**

Some unusual host relations of the Texas fever tick; **Ransom.**

*Trombidium* larva attacking man in New Guinea, Ceram, and Celebes; **Oudemans, 12.**

Sarcoptid, accidental parasite of man; **Trouessart.**

*Carpoglyphus* sp. n. (*Acari*) in human urine; **Haan.**

*Sarcoptes* on rabbits; **Gmeiner.**

Subcutaneous tissue of *Platyercus*, *Sarcoborus* in; **Pernet.**

*Leptus autumnalis* in dogs; **Roth.**

*Hydrachnida* parasitic on fresh-water animals; **Soar, 1.**

Parasitism of *Linguatula rhinaria*; **Koch, M.**

*Pentastomum* parasitic in man; **Thiroux, Laengner.**

*Porocephalus* sp. n. parasite of *Gavia gangeticus*; **Linstow.**

*Diptera* larvae in spider-cocoons; **Schwangart, 1.**

*Acari* as intermediary host of *Haematozoa*; **Popovici-Bazosanu.**

### Symbiosis.

Spiders in ants' nests; **Donisthorpe, Jackson, Roubal.**

Symbiosis of *Antennophorus* and ants; **Karavajev.**

### EVOLUTION = 3023.

Physiological selection in spiders; **Dahl, 1.**

### GEOGRAPHY = 3027.

Europe and Mediterranean sea and islands. d

Europe, *Araneae* 1 sp. n., 1 subsp. n.; **Kulczyński, 2.**

- Sweden, *Hydrachnida*, *Pseudoscorpiones* and *Opiliones*; **Tullgren**, 2, 3, 4.
- Norway, *Gamasus* 1 sp. n., 3 varr. n.; **Berlese**.
- Iceland, *Arancae* 1 var. n.; **Strand**, 7
- Bologoje Lake, Russia, *Hydrachnida*; **Solovjev**.
- Finland, *Uropoda* sp. n.; **Reuter**.
- Caucasus, *Scorpiones* 1 subsp. n.; **Birula**, 2.
- Germany:—*Phyllocoptes* sp. n.; **Bürner**.—*Gamasus* 1 sp. n., 2 varr. n.; **Berlese**.—*Hydrachnida*; **Schorler**, **Thallwitz** and **Schiller**.—*Tardigrada*; **Schorler**, **Thallwitz** and **Schiller**.—Bavaria, *Lebertia inaequalis*; **Thor**, 3.
- (Netherlands, *Acari* 3 spp. n.; **Oudemans**, 18.)
- Holland, *Acari* 12 spp. n., 1 var. n.; **Oudemans**, 2, 3, 4.
- Belgium, *Hydrachnida*; **Rousseau**.
- Luxembourg, *Araneae*; **Feltgen**.
- Britain.—*Araneae* 1 gen. and 6 spp. n.; **Cambridge**, O. P., 1.—*Araneae* of *Diplocephalus* group; **Smith**, 1.—*Oribatidae* 7 spp. n.; **Warburton** and **Pearce**.—*Ixodidae*; **Wheler**.—*Pseudoscorpiones*; **Cambridge**, O. P., 1.
- English counties, *Arachnida*; **Cambridge**, F. O. P.
- Tyne valley, Northumberland, *Arachnida*; **Jackson**.
- Yorkshire, *Araneae*; **Falconer**, 1; **Gilchrist**: *Phalangidea*; **Falconer**, 2.
- Nottinghamshire, *Arachnida*; **Carr**: *Chernes cyrmeus*; **Kew**.
- Lincolnshire, *Acari*; **George**, 1; *Hydrachnida*, 1 sp. n., 1 var. n.; **George**, 2.
- Yarmouth, *Araneae*; **Hancock**.
- Botanic Gardens, Kew, *Araneae* 1 sp. n.; **Cambridge**, O. P., 3; *Acarina*; **Michael**: *Hydrachnida*; **Soar**, 2; *Scorpionidae*; **Pocock**.
- Scotland, *Hydrachnida*; **Williamson**: *Chiridium museorum* (*Pseudoscorpiones*); **Evans**, 1: *Tardigrada*, Alpine species, 1 sp. n.; **Murray**, 2.
- Scotch lakes, *Tardigrada*, 6 spp. n.; **Murray**, 1.
- Forth Valley, *Tardigrada*, 1 sp. n.; **Murray**, 3.
- St. Kilda, *Arachnida*; **Evans**, 2.
- Orkneys, *Araneidea* and *Phalangidea*; **Cambridge** O. P., 2.
- Ireland, *Hydrachnida* 1 gen. n., 2 spp. n.; **Halbert**, 2.
- France, *Araneae*; **Planet**: *Tyroglyphus* sp. n.; **Benoit-Bazille**: (*Trombidium*; **Heim** and **Oudemans**, 3.)
- Cepheus* sp. n.; **Heim** and **Oudemans**, 1.
- Paris, *Euescorpium flavicaudis*; **Delval**.
- Caves of Basses-Alpes, *Arachnida*; **Peyerimhoff**, 2; **Simon**, 6.
- Majorca, *Palpigradi* 1 sp. n.; **Peyerimhoff**, 2.
- Italy:—*Hydrachnida* 2 spp. nn.; **Maglio**, 1; (*Hydrachnida* 1 gen. and 2 spp. n.; **Monti**, 1, 2); *Gamasus* 1 sp. n., 10 varr. n.; **Berlese**: *Acari* 1 gen. n., 2 spp. n.; **Oudemans**, 3.
- (Italian Alps, *Hydrachnida* 2 spp. n. **Maglio**, 2, 3).
- Lake Nemi, *Hydrachnida* 1 sp. n.; **Marucci**.
- Sicily, *Acari* 2 spp. n.: **Oudemans**, 2; *Gamasus* 1 var. n.; **Berlese**.
- Switzerland, *Hydrachnida* 1 gen. n., 7 spp. n.; **Walter**, 1, 2; *Hydrachnida* 3 spp. n.; **Thor**, 2, 4.
- Dalmatia, *Araneae* 3 spp. n.; **Kulczyński**, 1.
- Bohemia, *Hydrachnida*; **Thon**, 3.
- Bosnia, *Amawobius* sp. n. **Kulczyński**, 2.
- Roumania, *Araneae* and *Opiliones*; **Scriban** and **Simon**.
- Macedonia, *Hydrachnida* 7 spp. n.; **Georgevitch**, 1, 2.
- Crete, *Scorpiones*; **Penther**.
- Asia and Malay Archipelago. e
- Turkestan, *Hydrachnida* 1 sp. n.; **Daday**, 1.
- Caspian region, *Solifugae* 2 spp. n.; **Birula**, 4.
- Persia: *Scorpiones* 1 sp. n., 2 subsp. n.; **Birula**, 3; *Solifugae* 6 spp. n.: **Birula**, 1.
- Asia Minor:—*Opiliones*, *Pseudoscorpiones*, *Araneae* gen. pp. and varr. n.;

- Nosek; *Scorpiones* and *Solifuga* spp. n.;  
Werner; *Hydrachnida* 2 spp. n.; Thon,  
2.
- Palestine, *Scorpiones* 1 subsp. n.;  
Birula, 3.
- Aral Sea and Balchash lake, *Scorpiones*  
and *Solifugae*; Birula, 5.
- Mongolia, *Hydrachnida* 2 spp. n.;  
Daday, 3; *Tardigrada*; Daday, 3.
- Japan, *Araneae* gen., spp. and sub-  
spp. n.; Bösenberg and Strand.
- Loohoo Is. and Formosa, *Scorpiones*;  
Iwakawa.
- Formosa, *Pedipalpi* 1 subsp. n.;  
Schwangart, 2.
- (Indo-China, *Arachnida*; Simon, 9.)
- Indo-China, *Araneae* 1 gen. and sp. n.;  
Simon, 4.
- Siam, *Hydrachnida* 1 gen. n., 5 spp. n.;  
Piersig; *Pseudoscorpiones* 6 spp. n.;  
With.
- Nicobars, *Pseudoscorpiones* 1 gen. n.,  
8 spp. n.; With.
- India, *Pseudoscorpiones* spp. n.; With;  
*Ixodidae* 2 spp. n.; Neumann, 1.
- S. India, *Phrymichus*; Rivington.
- S. India, *Arachnida* spp. n.; Simon,  
3, 7.
- Ganges, *Porocephalus* sp. n.; Linstow.
- Sikkim, *Oribatidae* 1 gen. n., 8 spp. n.;  
Pearce.
- Ceylon, *Araneae* spp. n.; Simon, 2,  
3, 7.
- Ceylon, *Ixodidae* 2 spp. n.; Neu-  
mann, 1.
- Burma, *Pseudoscorpiones* spp. n.; With.
- Malay Peninsula, *Opiliones* 1 sp. n.;  
Loman, 2; *Pseudoscorpiones* 6 spp. n.;  
With.
- Indo-Malayan islands, *Araneae* sp. n.;  
Simon, 2; *Hydrachnida* 20 spp. n., 1  
var. n.; Piersig.
- Sumatra, *Araneae* 5 spp. n., 1 var. n.,  
Strand, 4, 6.
- Java: *Hydrachnida* 9 spp. n.; Koe-  
nike, 2; *Carpoglyphus* sp. n. (*Acari*);  
Haan.
- Celebes, *Pseudoscorpiones* 1 sp. n.;  
With
- Africa, Madagascar, Seychelles.  
Mediterranean States. f
- Algeria and Tunis, *Araneae* gen. and  
spp. n.; Strand, 3.
- Egyptian Sudan and N. Uganda,  
*Araneae* 11 spp. n., 2 subsp. n.;  
Simon, 1.
- Abyssinia and Somaliland, *Araneae*,  
gen. and spp. n.; Strand, 3.
- West Africa:—*Araneae* 25 spp. n.  
and 2 var. n.; Strand, 8; *Ixodidae*;  
Ziemann; *Ixodidae* 2 spp. n.; Neu-  
mann, 1; *Pseudoscorpiones* 1 fam. n.,  
1 gen. n., 7 spp. n., 2 var. n.; Ellingsen.
- Senegambia, *Mygalomorphae* sp. n.;  
Simon, 5.
- Cameroons, *Arachnida*; Sjöstedt;  
*Araneae* 5 spp. n.; Strand, 4, 5.
- (Juan-Fernandez, *Araneae* 2 spp. n.;  
Simon, 8.)
- San Thomé Isd., *Araneae* 1 sp. n.;  
Strand, 3.
- East Africa: *Araneae* 6 spp. n.;  
Strand, 8; *Ixodidae* 2 spp. n.; Neu-  
mann, 1.
- German E. Africa: *Araneae* gen. and  
spp. n.; Strand, 3; *Hydrachnida* 5 spp.  
n.; Koenike, 1; *Scorpiones*; Kraepelin.
- Lake Nyasa, *Hydrachnida*; Halbert, 1.
- South Africa:—*Araneae* spp. n.;  
Strand, 4; Simon, 2; *Ixodidae*; Lounsbury.
- Kalahari desert, *Rhipicephalus* sp. n.;  
Donitz, 1.
- Cape of Good Hope, *Gamasus* 1 sp. n.;  
Berlese.
- Natal and Zululand, *Acari* gen. and  
spp. n.; Trägårdh.
- German South-west Africa, *Araneae*  
2 spp. n.; Strand, 8.
- Madagascar, *Araneae* spp. n.; Simon,  
2.
- Seychelles, *Acari* 3 spp. n.; Thon, 4.
- North America. g
- Canada, *Oribatidae* 1 sp. n.; Banks, 3.
- Gulf of S. Lawrence, Anticosti Isd.,  
*Arachnida*; Schmitt.
- United States, *Araneae* 2 spp. n.;  
Crosby; *Tyroglyphidae* 17 spp. n.;

**Banks, 2:** *Oribatidae* 24 spp. n.; **Banks, 3.**

Washington, *Arachnida*; **Bergroth.**  
Michigan, *Araneae*; **Ruthven.**  
Kansas, *Araneae*; **Scheffer, 2.**

**Polar regions.**

*k, o*

*Araneae* 1 gen. n., 2 spp. n.; **Strand, 1, 2.**  
Spitzbergen, *Tardigrada* 2 spp. n.; **Richters, 1.**

**Mexico and Centr. and S. America.**  
*h*

Mexico: *Araneae* 1 sp. n.; **Strand, 4:**  
*Ixodidae* 1 sp. n.; **Neumann, 1.**

Guatemala, *Atemnus elongatus*; **Berger.**

Bahamas, *Arachnida* 3 spp. n.; **Banks, 1.**

Tropical S. America, *Araneae* spp. n.; **Simon, 2.**

Pernambuco, *Spelacorhynchus praecursor*; **Neumann, 2.**

Bolivia, *Ixodidae* spp. n.; **Neumann, 1.**

Brazil, *Pergamasus*; **Heim and Oudemans, 2;** *Ixodidae* spp. n.; **Neumann, 1.**

Paraguay, *Gamasus* sp. n.; **Berlese.**

(Tucuman, *Scorpiones*; **Simon, 10.**)

Galapagos Is., *Amblyomma* sp. n.; **Neumann, 1.**

Tristan d'Acunha, *Ixodes* sp. n.; **Neumann, 1.**

**Australasia** (incl. New Guinea). *i*

New Guinea: *Araneae* sp. n.; **Simon, 2;** *Araneae* 1 var. n.; **Strand, 6;** *Opliones* 1 gen. n., 3 spp. n.; **Loman, 1;** *Acari*; **Oudemans, 12;** *Trombidium* 2 spp. n.; **Oudemans, 1.**

(New Guinea, *Acari* spp. n.; **Oudemans, 18.**)

Fiji Is., *Acari* 2 spp. n.; **Nalepa.**

(Australia, *Araneae* 1 sp. n.; **Rainbow, 2.**)

Australia:—*Araneae* spp. n.; **Simon, 2;** *Lycosidae* 10 spp. n.; **Hogg:** *Acari* 5 spp. n.; **Rainbow.**

New South Wales, *Argas* sp. n.; **Froggatt.**

Tasmania, *Araneae* spp. n.; **Simon, 2.**

New Caledonia, *Araneae* spp. n.; **Simon, 2.**

### III.—SYSTEMATIC=3031.

#### SCORPIONES.

*Scorpionida* of Crete **PENTHER** Wien, Verh. Zool. Bot. Ges. **56** (60-64).—of the Loochoo Islands and Formosa (Japanese). **IWAKAWA, Dobuts. Z., Tokyo, 18,** (5-12) pl.

*Buthcolus conehini* **Simon**, synonymy **BIRULA** St. Peterburg, Ann. Mus. zool. Ac. Sc. **10** (126).—*B. melanurus* **Kessl.** defensive altitude, **FAUSSEK** St. Peterburg, Zap. Russ. Geogr. Obsč., **27,** (146)

*Buthus acutecarinatus* **E. Simon**, synopsis of subspp. **BIRULA**, St. Peterburg, Bull. Ac. Sc., **23,** (139-140); *matthiesseni* **Persia** (142) *judaicus* (139, 140) **Palestine and Arabia**, subspp. n. **BIRULA** St. Peterburg, Bull. Ac. Sc. **23.**—*B. cognatus*, **L. Koch** synonymy (122) *caucasicus fischeri* subspp. n. **Caucasus** (121); **BIRULA**, St. Peterburg, Ann. Mus. zool. Ac. Sc., **10.**—*B. eupeus* (**C. Koch**), synopsis of subspecies. **BIRULA**, St. Peterburg, Bull. Ac. Sc., **23,** (122-134); *philippovitschi* subspp. n. **Persia**; **BIRULA**, T.c. (127, 128).—*B. eupeus thersites*, life-history; **BIRULA** **Taškent, Izv. Turk. Otd. Russ. Geogr. Obsč. 4,** (42-48) pl. v. —*B. europaeus* egg-laying **MINGAUD** **Nimes, Bul. soc. étud. sci. nat. 33** (168-170).—*B. schach* sp. n. **Persia**; **BIRULA**, St. Peterburg, Bull. Ac. Sc., **23,** (134).—*B. zarudnianus* nom n. for *Hemibuthus zarudnyi* **Bir., BIRULA** T.c. (144).

*Euscorpium flavicaudis* in **Paris DELVAL** **Paris, Bul. soc. ent., 1904,** (178).

#### PEDIPALPI.

*Phrymichus cunatus* **Poc.** in **S. India RIVINGTON** **Bombay, J. Nat. Hist. Soc. 17,** (523).

*Thelyphonus*, development, phylogeny etc. **SCHIMKEWITSCH**, St. Peterburg, Trav. Soc. Nat. **35,** 1906 (1-15) with 6 text-figures; **Zs. wiss. Zool. 81** (1-95), pls. i-viii.

*Typopeltis crucifer* Poc. *kochi* subsp. n. ✓ *Loxoptygella* gen. n. *erlangeri* sp. n. Formosa SCHWANGART, Zool. Anz., 30, Somaliland STRAND T.c. (607). (331-337).

✓ *Macrothele vidua* sp. n. Himalayas SIMON Paris, Ann. soc. ent. 75 (306).

## PALPIGRADI.

*Kaenia draco* sp. n. Majorca in caves PEYERIMHOFF Paris, Bul. soc. ent. 1906 (300, 301).

✓ *Phoneyusa chevalieri* sp. n. Fouta Jallon, West Africa SIMON Bul. Muséum Paris 1906 (189).

✓ *Phormictopus cancerides* Latr. *temuis-pina* var. n. no locality given STRAND Wiesbaden, Jahrb. Ver. Natk. 59 (17).

## ARANEAE.

✓ *Phormingochilus fuchsi* sp. n., Sumatra, STRAND T.c. (3).

*Araneae*, classification, form of body DAHL, Zool. Anz., 31, (60-64).

✓ *Pisenor pustulatus* sp. n. Somaliland STRAND Zool. Anz. 30 (606).

Anatomy and histology of sexual organs STRAND Zs. wiss. Zool. 80, (515-543) pl. xxviii.—Physiological effects of their venom MITCHELL Knowledge and Sci. News, London 3 (317-318).

✓ *Pterinochilus raptor* sp. n. Somaliland STRAND T.c. (606).—*P. wiedenmanni* (17), *mamillatus* (21), spp. n. East Africa STRAND Stuttgart, Jahreshefte Ver. Natk., 62.

*Araneae* of France, PLANET, Araignées, Histoire naturelle de la France, 14<sup>e</sup>, partie. Paris, (1-341, a.), fig. et 18 pl.

## ULOBORIDAE.

## AVIOLARIIDAE.

*Dinopsis seriata*, *biaculeata*, *fastigata* (284), *pardalis* (285), spp. n. Brazil SIMON Ann. soc. ent. Belg. 50.

*Acanthopelma maculata* sp. n. Bahamas, BANKS, New York, N.Y., Bull. Amer. Mus. Nat. Hist. 22 (185)

*Hyptiotes affinis* sp. n. Japan BÖSENBERG and STRAND, Abh. Senckenberg Ges. 30 (108), pl. xv f. 393.

*Ancylotrypa atra* sp. n. Somaliland, STRAND, Zool. Anz. 30 (605).—*A. bicornuta* sp. n., South Africa, STRAND, Wiesbaden, Jahrb. Ver. Natk. 59 (3).

*Lathys ocellata* (109) pl. xvi f. 465, *orientalis* (110) pl. xvi f. 475, *annulata* (110) pl. vi f. 468, *novembris* (375) pl. iii f. 4 spp. n. Japan BÖSENBERG and STRAND, T.c.

*Avicularia subvulpina* sp. n. South Africa STRAND. T.c. (22).

*Miagrammopes orientalis* sp. n. Japan BÖSENBERG and STRAND, T.c. (109) pl. xv f. 422.—*M. sexpunctatus* sp. n. Himalayas SIMON Paris, Ann. soc. ent. 75 (306).

*Ceratogyrus sanderi* sp. n., South-west Africa STRAND Stuttgart, Jahreshefte Ver. Natk. 62, (23).

✓ *Cyphonisia kaesseri*, sp. n., East Africa STRAND T.c. (14).—*C. maculipes* sp. n. Cameroons; STRAND Wiesbaden, Jahrb. Ver. Natk. 59 (287).

*Uloborus furunculus* (285) *hilaris* (286) spp. n. India SIMON Ann. Soc. ent. Belg. 50.—*U. varians* (102) pl. iii f. 1, pl. xv f. 429, *defectus* (103) pl. xv f. 427, *sybotides* (104) pl. xv. ff. 428, 431, *dubius* (105) pl. xv f. 430, *prominens* (106) pl. xv f. 410, *incognitus* (374) pl. iii f. 17 spp. n. Japan BÖSENBERG and STRAND Abh. Senckenb. Ges. 30.

*Cyrtopholis bartholomaei* Latr. characters STRAND T.c. (4).

✓ *Eurypelma hageni* sp. n. Mexico STRAND T.c. (19).

*Heligmomerus longipes* sp. n. Somaliland STRAND Zool. Anz. 30 (605).

(*Uloborus bigibbosus* sp. n. Pondichery SIMON Paris, Ann. Soc. ent. 74 (163).)

*Hysteroocrates spellenbergi* (25), *voseleri* (27), *haasi* (31), spp. n. Cameroons; STRAND Stuttgart, Jahreshefte Ver. Natk. 62.—*H. weileri* (10), *maximus*, (14), spp. n. Cameroons STRAND Wiesbaden, Jahrb. Ver. Natk. 59.

## PSECHRIDAE.

✓ *Ischnocolus fasciculatus* sp. n. Somaliland STRAND Zool. Anz. 30 (606).

*Fecenia maforensis* sp. n. New Guinea SIMON Ann. Soc. ent. Belg. 50 (287).

*Psecchrus himalayanus* sp. n. India  
SIMON T.c. (287).

*Themaerys* gen. n. (287) *irrorata*  
Natal, *stolidia* Zululand (288) spp. n.  
SIMON T.c.

## ZOROPSIDAE.

*Acanthoctenus obauratus* Brazil *dumicola* Venezuela (289) *gaujoni* Ecuador (290) *plebejus* Venezuela, Trinidad *andicola* Bolivia (291) spp. n. SIMON Ann. Soc. ent. Belg. 50.

*Uduba madagascariensis* Vinson, *funerea* (293) *inhonesta* (294) spp. n. Madagascar SIMON T.c.

## DICTYNIDAE.

*Amaurobius* revision of European species, *dubius* nom. n. for *Coelotes roscidus* L. Koch (432) *pastor*, Sim. *tirolensis* subsp. n. Alps (458) ff. 11, 13, 51, 64 *karlińskii* sp. n. Herzegovina, Bosnia (469) f. 3 KULOZYŃSKI Krakow, Bull. Intern. Acad. 1906 (417-476) pl. xiv, xv.—*A. (Tilanoeca) incerta* sp. n. Asia Minor NOSEK Wien, Ann. Nat. Hist. Hofmus. 20 (120)—*A. promontorii* Cape of Good Hope (294) *gausapatus* Australia *praecalvus* Tasmania (295) spp. n. SIMON Ann. Soc. ent. Belg. 50.—(*A. socialis* sp. n. Australia RAINBOW Rec. Austr. Mus. 6 (9) fig. 1 pl. iii).

*Aphlyctoschaema guttipes* Tasmania (297) *sedula* Australia (298) *misella* (298) *pullata*, *nexibilis* New Caledonia (299) spp. n. SIMON Ann. Soc. ent. Belg. 50.

*Auximus rhombifer* (300) *fulvipes*, *quiltensis*, *harpagulus* (301) *procerulus* (302) spp. n. Ecuador SIMON T.c.

*Badumna varia* (296) *einclipes* (297) spp. n. Australia SIMON T.c.

*Callectophthalmus* gen. n. for *Lathys alba* Keys. and *L. maculata* Keys. SIMON T.c. (303).

*Ciniflo annulatus* sp. n. Dalmatia, KULOZYŃSKI, Ann. Hist.-Nat. Mus. Nat. Hung., 4, (157).

*Derxema* gen. n. *arguta* sp. n. Australia SIMON Ann. Soc. ent. Belg. 50 (303).

*Dictyna abyssinica* sp. n. Somaliland, STRAND Zool. Anz. 30 (667).—*D. colona* New Caledonia (303) *bispinosa* Burma *kandiana* Ceylon *velifera* Sikkim (304)

*estebanensis* Venezuela (305) spp. n. SIMON Ann. soc. ent. Belg. 50.—*D. felis* (111) pl. xvi f. 476, *foliicola* (112) pl. vi f. 67, pl. xvi ff. 470, 471, *procerula* (112) pl. xvi, f. 462 spp. n. Japan BÖSENBERG and STRAND, Abh. Senckenb. Ges., 30.—*D. grossa* sp. n. Himalayas SIMON Paris, Ann. soc. ent. 75 (306).

(*Dictyna turbida* Nilghiris *negricauda*, *smaragdula* Ceylon spp. n. SIMON Paris, Ann. soc. ent. 74 (165, 166).)

*Episinus lugubris*, Simon, Dorsetshire CAMBRIDGE O. P. Proc. Dorset Nat. Hist. F. Cl. 27 (74-83, pl. A f. 2).

*Heterodictyna* Dahl. = *Dictynina* Banks DAHL Zool. Anz. 31 (63).

*Megadictyna* gen. n. *thilenii* sp. n. New Zealand DAHL T.c. (62, 63).

## ERESIDAE.

*Dresserus inconspicuus* sp. n. Somaliland STRAND Zool. Anz. 30 (668).

*Scolyyra perelegans*, *semicoccinea* spp. n. South Africa SIMON Ann. soc. ent. Belg. 50 (307).

*Stegodyphus corallipes* (305) *simplicifrons* (306) Madagascar, *luctuosus* Mashonaland (306) spp. n. SIMON T.c.—*S. 2½-vittatus* Somaliland (667) *tibifer* German E. Africa (687) spp. n. STRAND Zool. Anz. 30.

## FILISTATIDAE.

*Filistata hasselti* sp. n. Malayan Islands SIMON Ann. soc. ent. Belg. 50 (308).

## OONOPIDAE.

*Gamasomorpha karschi* sp. n. Japan BÖSENBERG and STRAND Abh. Senckenb. Ges., 30, (117) pl. xvi f. 455.

*Oonops corticalis* sp. n. Japan BÖSENBERG and STRAND, T.c. (116) pl. vi f. 60.

*Xestaspis recurva* sp. n. Shoa, Abyssinia STRAND Zool. Anz. 30 (680).

## SIGARIIDAE.

*Loxosecles bergeri* sp. n. German South-West Africa STRAND Wiesbaden, Jahrb. Ver. Natk., 59 (26).—*L. rufescens* characters BÖSENBERG and STRAND Abh. Senckenb. Ges., 30 (113) pl. vi f. 69 pl. xvi f. 450.

*Loxoscella* gen. n. *pallidecolorata* sp. n. Somaliland STRAND Zool. Anz. 30 (668).

*Scytodes nigrolineata* characters BÖSENBERG and STRAND Abh. Senckenb. Ges. 30 (114) pl. vi ff. 62, 71 pl. xii 267 pl. xv f. 441.—*S. subthoracica* (40) *camerunensis* (42) CAMEROONS, *suffusa* (43) East-Africa spp. n. STRAND Stuttgart, Jahreshefte Ver. Natk. 62.

## DYSDERIDAE.

*Ariadna lateralis* Karsch (118) pl. vi f. 63 pl. xv ff. 433, 434, *orientalis* (119, 376) pl. vi f. 59 sp. n., Japan BÖSENBERG and STRAND Abh. Senckenb. Ges. 30.—*A. taprobanica* Ceylon *nebulosa* Madura *orcadensis* Ceylon spp. n., SIMON Paris, Ann. soc. ent. 75 (280).—*A. viridis* sp. n. South-west Africa STRAND, Stuttgart, Jahreshefte Ver. Natk., 62 (45).

*Dysdera argaiea* (120) pl. iv f. 2 *asiatica* (121) pl. iv f. 3 *montana* (122) *lougimandibularis* (123) pl. iv f. 4 spp. n. Asia Minor NOSEK Wien, Ann. Nat. Hist. Hofmus. 20.—*D. römeri* sp. n. Somaliland, STRAND Zool. Anz. 30 (668).

*Harpactes chyzeri* sp. n. Dalmatia, KULCZYŃSKI Ann. Hist.-Nat. Mus. Nat. Hung., 4 (159).—*H. sturanyi* (124) pl. iv f. 5 *abori* (125) pl. iv f. 6 spp. n. Asia Minor NOSEK Wien, Ann. Nat. Hist. Hofmus. 20.

*Segestria inda* sp. n. India SIMON Paris, Ann. soc. ent. 75 (279).

## DRASSIDAE.

*Allodrassus* gen. n. *tridentatus* sp. n. Somaliland STRAND Zool. Anz. 30 (610).

*Callilepis asiatica* (124) pl. xvi f. 488, *saga* (377) pl. vii f. 80, spp. n. Japan BÖSENBERG and STRAND Abh. Senckenb. Ges. 30.

*Cithaeron delinubatus* sp. n. Somaliland STRAND Zool. Anz. 30 (614).

*Drassodes oculinotatus* (119) pl. xvi f. 480, *pater* (119) pl. xvi f. 483, *rotundifoveatus* (120) pl. xvi f. 484, *unci-insignitus* (120) pl. xvi f. 500, *depilosus* (376) pl. vii f. 83, *nox* (376) pl. vii f. 82, spp. n., Japan BÖSENBERG and STRAND Abh. Senckenb. Ges. 30.—*D. similis* sp. n. Asia Minor NOSEK Wien, Ann. Nat. Hist. Hofmus. 20 (125).—*D. subdivuatus*, (608), *vorax*, *carinatus*, *prothesimifor-*

*mis*, (609), *sternatus*, *adisensis* (681), spp. n. Abyssinia and Somaliland STRAND Zool. Anz. 30.

(*Drassodes heterophthalmus* sp. n. Coromandel SIMON Paris, Ann. soc. ent. 74 (168).)

*Echemella* gen. n. *quinquedentata* sp. n. Somaliland STRAND Zool. Anz. 30 (610).

*Gnaphosa compirensis* sp. n. Japan BÖSENBERG and STRAND Abh. Senckenb. Ges. 30 (123) pl. vi f. 481.—*G. lucifuga minor* var. n. Asia Minor NOSEK Wien, Ann. Nat. Hist. Hofmus. 20 (128).

*Maniana* gen. n. *defecta* sp. n. Somaliland STRAND Zool. Anz. 30 (614).

(*Mulicymnis lubrica* sp. n. Pondichery SIMON Paris, Ann. soc. ent. 74 (169).)

*Platyoides bidentatus* sp. n. Somaliland STRAND Zool. Anz. 30 (607).

*Prothesima abbaensis*, *multidentata* (611), *albobivittata*, *dorsiscutata* Somaliland (612), *quadridentata* Tunis (613), *neumannii* (681), *dalotensis*, E. Africa, *schoënsis*, Abyssinia (682), spp. n. STRAND P.c.—*P. asiatica* (121) pl. vi f. 78 pl. xvi f. 487, *x-notata* (122) pl. xvi f. 489, *pallidipatellis* (123) pl. xvi f. 490, spp. n., Japan BÖSENBERG and STRAND Abh. Senckenb. Ges. 30.—*P. strandi* sp. n. Prinkipo Is. in Marmora Sea NOSEK Wien, Ann. Nat. Hist. Hofmus. 20 (126) pl. iv f. 7.

*Pterotricha lentiginosioides* (127) pl. iv. f. 8 *pulchra* (127) pl. iv f. 9 spp. n. Asia Minor NOSEK Wien, Ann. Nat. Hist. Hofmus. 20.

*Pythonissa chordivolvata* sp. n. Somaliland, STRAND Zool. Anz. 30 (613).

*Scotophaeus lamperti* sp. n. German S.W. Africa, STRAND Wiesbaden, Jahrb. Ver. Natk., 59 (28).—*S. parvioculis* sp. n. Somaliland, STRAND Zool. Anz. 30 (611).

(*Scotophinus* gen. n. *maindroni* sp. n. Coromandel SIMON Paris, Ann. Soc. ent. 74 (169).)

*Talanites dorsilineatus* sp. n. Japan BÖSENBERG and STRAND Abh. Senckenb. Ges. 30 (121, 377) pl. vii f. 84.

*Theumella* gen. n. *typica*, *pericillata* spp. n. Somaliland STRAND Zool. Anz. 30 (607, 608).



## ZODARIIDAE.

(*Capheris nitidiceps*, *stillata* spp. n. S. India SIMON Paris, Ann. soc. ent. **74** (171).)

(*Hermippus erueiatus* sp. n. Coromandel SIMON Paris, Ann. Soc. ent. **74** (172).)

*Hermippus affinis* sp. n. Somaliland, STRAND Zool. Anz **30** (668).—*H. japonicus* sp. n. Japan BÖSENBERG and STRAND Abh. Senckenb. Ges. **30** (125) pl. vi f. 73 pl. xv f. 439.

*Taeches vittatus* sp. n. Tunis, STRAND Zool. Anz. **30** (669).

*Mallinella* gen. n. *maculata*, *seutata* spp. n. Somaliland STRAND T.c. (670).

*Mallinus* (?) *defectus* sp. n. Tunis STRAND, T.c. (670).

*Storena nilghirina* sp. n. Nilghiris SIMON Paris, Ann. Soc. ent. **75** (281).

(*Storena redimita* sp. n. Pondichery SIMON Paris, Ann. Soc. ent. **74** (173).)

(*Suffucia cingulata* sp. n. Pondichery SIMON Paris, Ann. Soc. ent. **74** (174).)

*Zodarium dubium*, *tunetiaicum* spp. n., Tunis, STRAND Zool. Anz. **30** (669).—*Z. thoni* sp. n. Asia Minor NOSEK Wien, Ann. Nat. Hist. Hofmus. **20** (128) pl. iv f. 10.

## UROCTEIDAE.

*Uroctea compactilis* Karsch, Japan BÖSENBERG and STRAND, Abh. Senckenb. Ges., **30**, (126) pl. vi f. 70 pl. xv f. 444.

## PHOLCIDAE.

*Pholcus crypticolens* sp. n., Japan BÖSENBERG and STRAND Abh. Senckenb. Ges. **30** (127) pl. vi f. 72 pl. xv f. 440.

*Smeringopus affinitatus*, *zonatus* Somaliland (671), spp. n., STRAND Zool. Anz. **30**.

*S. peregrinus* sp. n., East Africa STRAND Stuttgart, Jahreshfte Ver. Natk. **62** (47).

## THERIDIIDAE.

*Achaea asiatica* sp. n. Japan BÖSENBERG and STRAND Abh. Senckenb. Ges. **30** (148) pl. xii f. 278.

*Argyrodes atriapicatus* sp. n. Somaliland STRAND Zool. Anz., **30** (682).—*A. bona dea* (129) pl. v f. 52 pl. xii f. 264

*fissifrons* (130) pl. v f. 48 pl. xi ff. 235, 236, 240 *miniacus* (132) pl. xv ff. 399, 403 characters, *fur* (133) pl. xi f. 226 *erueinotum* (134) pl. x f. 188 spp. n. Japan BÖSENBERG and STRAND, Abh. Senckenb. Ges. **30**.

*Ariamnes cylindrogaster* Sim. (128) pl. v f. 53 pl. x f. 195, *saganus* (129, 378) pl. v f. 46 spp. n. Japan BÖSENBERG and STRAND T.c.

*Asagena japonica* sp. n. Japan BÖSENBERG and STRAND T.c. (150, 380) pl. v f. 44. —*A. phalerata seraiensis* var. n. Asia Minor NOSEK Wien, Ann. Nat. Hist. Hofmus. **20** (131).—*A. violacea* sp. n. Somaliland STRAND Zool. Anz., **30** (615).

*Bathypantes spretus* sp. n. Norfolk, CAMBRIDGE O. P. Proc. Dorset Nat. Hist. F. Cl. **27** (76, 85) pl. A f. 4-7.

*Dipoena castrata* (149) pl. v f. 50 pl. xii ff. 246, 247, *cauinotata* (150) pl. xii f. 266, *multilata* (150) pl. xii f. 275, *uniforma* (151) pl. xii f. 285, *flavomarginata* (151) pl. xii f. 279, *longisterna* (152) pl. xii f. 189 spp. n. Japan BÖSENBERG and STRAND Abh. Senckenb. Ges. **30**.

*Enoplognatha dorsinotata* (156) pl. x f. 194, *japonica* (156) pl. v f. 47 pl. xii f. 250, *erassipes* (157) pl. xii f. 271, *foliicola* (381) pl. iv f. 36 spp. n. Japan BÖSENBERG and STRAND T.c.—*E. thoracicoides* sp. n. Asia Minor NOSEK Wien, Ann. Nat. Hist. Hofmus. **20** (129).

*Episinus affinis* (136) pl. v f. 55 pl. xii f. 251, *caudifer* (137, 379) pl. iv f. 39 spp. n. Japan BÖSENBERG and STRAND Abh. Senckenb. Ges. **30**.

*Euryopsis mustelina* characters BÖSENBERG and STRAND T.c. (137) pl. iii f. 2 pl. xii f. 276.

*Histagonia marxi* sp. n. Tennessee and District of Columbia CROSBY Canad. Entomol. **38** (309).

*Hyptimorpha* gen. n. *mirabilis* sp. n. Japan BÖSENBERG and STRAND Abh. Senckenb. Ges., **30**, (135-136) pl. xi f. 227.

*Lascota dissimilis* Cambr., Dorsetshire CAMBRIDGE O. P. Proc. Dorset Nat. Hist. F. Cl. **27** (75, 84) pl. A f. 1).

*Lithyphantes cavernicola* (154) pl. v f. 57, (?) *dubius* (380) pl. iv f. 34 (?) *minus* (380) pl. iii f. 10 spp. n. Japan BÖSENBERG and STRAND, Abh. Senckenb. Ges., **30**.—*L. dahlis* sp. n. Asia Minor NOSEK

Wien, Ann. Nat. Hist. Hofmus. 20 (130) pl. iv f. 11.

*Maro gen. n. minutus sp. n.* Huddersfield CAMBRIDGE O. P. Proc. Dorset Nat. Hist. F. Cl. 27 (77, 86-88) pl. A ff. 12-18.

(*Moneta grandis sp. n.* Nilghiris SIMON Paris Ann. soc. ent. 74 (176).)

*Stearodea abrupta* characters BÖSENBERG and STRAND Abh. Senckenb. Ges. 30 (152) pl. xii f. 253.

*Tarsiphantes gen. n., latithorax sp. n.* Arctic, STRAND Arctic Araneae, "Fram" expedition (30).

*Teutana grossa* C. K. habits TULLGREN Entomol. Tidskr. 27 (182-190).—*T. transversifoveata sp. n.* Japan BÖSENBERG and STRAND Abh. Senckenb. Ges. 30 (153) pl. xii f. 288.

*Theonoe stridula sp. n.* Missouri CROSBY Canad. Entomol. 38 (308).

*Theridium darolense, lamperti, spp. n.* Somaliland STRAND Zool. Anz., 30 (615).—*T. octomaculatum* (138) pl. iii f. 14 pl. xii f. 281 *subpallens* (139) pl. xii f. 29 *ferrum-equinum* (139) pl. xii f. 261 *japonicum* (140) pl. xii f. 283 *indicus* (141) pl. xii f. 280 *kompirensis* (141) pl. v. f. 41 pl. xii f. 284 *mneon* (142) pl. xii f. 286 *culicivorum* (143) pl. xii f. 287 *sterninotatum* (143) pl. xii ff. 289, 290 *angulithorax* (144) pl. xii f. 292 *yunohamende* (145) pl. x f. 185 *sudabides* (145) pl. x f. 186 *argyrodiforme* (147) pl. x f. 190 *subadultum* (147) pl. v f. 42 pl. x f. 191 *higense* (379) pl. v f. 45 *spp. n.* Japan BÖSENBERG and STRAND Abh. Senckenb. Ges. 30.—*T. tepidariorum* oviposition, cocoon, hatching (1-10) dimorphism of eggs (115-118) MONTGOMERY Woods Holl, Mass., Mar. Biol. Lab. Bull. 12.

(*Theridium leucophaeum, nilgherinum, maindroni* spp. n. S. India SIMON Paris, Ann. soc. ent. 74 (178, 179).)

*Tmeticus affinis* Bl. = *Anglia hancockii* SMITH J. Quek. Microsc. Cl. ser. 2 9 (319).—? *T. fortunatus sp. n.* Leeds CAMBRIDGE O. P. Proc. Dorset Nat. Hist. F. Cl. 27 (76, 85) pl. A ff. 8-11.

(*Ulesanis maindroni sp. n.* Nilghiris SIMON Paris, Ann. soc. ent. 74 (177).)

#### *Argiopidae.*

*Aranea*; Bösenberg and Strand figure and describe several known Japanese species and the following new species;—

*ejusmodi* (229) pl. xi f. 215 *herbeoides* (227) pl. iv. f. 30, pl. xi f. 241 *dönitzella* (383) pl. iv f. 40, *komosanensis* (234) pl. xi f. 224, *dofleini* (235) *koratsensis* (384) pl. iv f. 25, *mangarevovides* (228) pl. iv f. 21, pl. xi f. 213 *linyphiiformis* (237) pl. xv f. 421, *pseudocentroides* (232) pl. xv f. 415, *sagana* (233) pl. xi f. 212, *subpullata* (234) pl. xi ff. 232, 233 *sagicola* (383) pl. iii f. 3, *sia* (237) pl. iv f. 24, *scylloides* (217) pl. iv f. 26, pl. xi f. 209, *theridiformis* (236) pl. iv f. 3, pl. xv f. 500 *spp. n. adianta japonica* (219) pl. iv. f. 27 subsp. n. Japan BÖSENBERG and STRAND Abh. Senckenb. Ges. 30.—*A. confusio*ns (619), *braueri*, *danensis* (620) *submodesta*, *akakensis*, *albiaenleis* (621), *aballensis*, *ladschicola* (622), *darolicola*, *manicola* (623), *paracymbifer* Abyssinia and Somaliland (624). *ursimorpha* E. Africa (683), *liberiae* Liberia (687), *bagamoyensis* German E. Africa (688), *spp. n., submodesta neumanni* subsp. n. STRAND Zool. Anz., 30.—*A. dumetorum islandicola* Iceland STRAND var. n. Wiesbaden, Jahrb. Ver. Natk., 59 (282).—*A. leimenstolli* (57), *nigmanni* (59) *pahli* (61) *camerunensis* (62) *spp. n.* West Africa; STRAND Stuttgart, Jahreshefte Ver. Natk., 62.—*A. odites* (308) *achine*, *pavidus* (309) *spp. n.* Hinualayas SIMON Paris, Ann. soc. ent. 75.—*A. similis sp. n.* Asia Minor NOSEK Wien, Ann. Nat. Hist. Hofmus 20 (131).

*Argiope minuta* (194) pl. i f. 16, pl. xi ff. 218, 222 *brünnichii* (196) pl. iv f. 23 pl. xii ff. 297, 300 *aetherea* (198) pl. xii f. 296 *amoena* (199) pl. iv. f. 19, pl. xii f. 295 characters; *maja sp. n.* (201) Japan BÖSENBERG and STRAND, Abh. Senckenb. Ges., 30.—*A. obscuripes sp. n.* Soudan, *brünnichii africana* subsp. n. Algiers STRAND Zool. Anz., 30 (618).—*A. pechueli preussi* subsp. n. West Africa STRAND Stuttgart, Jahreshefte Ver. Natk., 62, (53).—*A. trifasciata deserticola* subsp. n. Egyptian Sudan SIMON Wien, SitzBer. Ak. Wiss. 115 (1162).

*Caerostris mimicus* Somaliland (624), *albopubescens* German E. Africa (688), *spp. n.*, STRAND Zool. Anz., 30.—*C. subsimata sp. n.* West Africa STRAND Stuttgart, Jahreshefte Ver. Natk., 62, (64).

*Caraccladus pauperulus sp. n.* Japan BÖSENBERG and STRAND, Abh. Senckenb. berg Ges., 30, (161) pl. xii f. 257.

*Ceratinella subulata* sp. n., Japan BÖSENBERG and STRAND, Abh. Senckenb. Ges., **30**, (158) pl. xii f. 269.

*Cnephalacotes elegans* Cambr. type of genus SMITH J. Quek. Microsc. Cl. ser. 2, **9** (313).

*Cyclosa argenteo-alba* (202) pl. iv f. 38, pl. xv f. 419 *atrata* (204) pl. iv 28, pl. xv f. 417 *laticanda* (209) pl. xv f. 414 *confusa* (209) pl. xv f. 418 *monticola* (210) pl. xv f. 413 *japonica* (211) spp. n. Japan BÖSENBERG and STRAND, Abh. Senckenb. Ges., **30**.—*C. tuberoscens* sp. n. Himalayas SIMON Paris, Ann. Soc. ent. **75** (310).—*C. vallata* (203) pl. xv f. 411 *insulana* (205) pl. iv f. 22, pl. xi f. 243–244 *sedeculata* (207) pl. xv f. 416 *octotuberculata* (208) pl. xv f. 412, characters BÖSENBERG and STRAND Abh. Senckenb. Ges. **30**.

*Cyrtophora citricola* Forsk *abessinensis* var. n. Abyssinia STRAND Zool. Anz. **30** (618).

*Diplocephalus bicurvatus* (160) pl. xii f. 272, *saganus* (160) pl. xii f. 254, spp. n., Japan BÖSENBERG and STRAND, Abh. Senckenb. Ges., **30**.—*D. castaneipes* in North Wales CAMBRIDGE O. P. Proc. Dorset Nat. Hist. F. Cl. **27** (91).—*D. coniceps* sp. n. Somaliland STRAND Zool. Anz., **30** (616).

*Dyschiriognatha tenera*, characters (174) pl. xv. f. 432, *quadrinaculata* (175) pl. iii f. 9 sp. n. Japan BÖSENBERG and STRAND, Abh. Senckenb. Ges. **30**.

*Etelecara erythropus* Westr. type of genus SMITH J. Quek. Microsc. Cl. ser. 2, **9** (302).

*Erigone arctica* characters STRAND Fauna Arctica **4** (477).—*E. prominens* (168) pl. xii f. 270, *sagicola* (381) pl. iv f. 37, *hua* (381) pl. x f. 183, *tita* (382) pl. x f. 181, spp. n. Japan, BÖSENBERG and STRAND, Abh. Senckenb. Ges., **30**.

*Erigonella groenlandica* sp. n. Arctic, STRAND Arctic Araneae, "Fram" expedition (30).

*Eusticothrix obscurus* Bl. type of genus SMITH J. Quek. Microsc. Cl. ser. 2 **9** (314).

*Gasteracantha doriae* characters (265) *marsdeni* Sim. *punctisternis* var. n. (264) *kulczynskii* sp. n. Sumatra, (266) STRAND Wiesbaden, Jahrb. Ver. Natk., **59**.—*G. leucomelas* (239) pl. xv f. 426, *sagaënsis* (239) pl. iii f. 18, pl. xv f. 395, spp. n. (N-9720 n)

Japan BÖSENBERG and STRAND, Abh. Senckenb. Ges., **30**.—*G. sanguinipes* sp. n., Somaliland, STRAND Zool. Anz., **30** (625).

*Gea nilotica* sp. n. Egyptian Sudan SIMON Wien, SitzBer. Ak. Wiss. **115** (1162).

*Hypselistes asiaticus* sp. n. Japan BÖSENBERG and STRAND, Abh. Senckenb. Ges., **30**, (169) pl. xii f. 259.

*Labulla contortipes* characters BÖSENBERG and STRAND T.c. (170) pl. v f. 49, pl. xi ff. 234, 237.

*Larima acuticauda* sp. n. Egyptian Sudan SIMON Wien, SitzBer. Ak. Wiss. **115** (1164).—*L. argiopiiformis, punctifera*, spp. n. Japan BÖSENBERG and STRAND, Abh. Senckenb. Ges., **30**, (212) pl. xv f. 423, pl. xi f. 203, pl. iv f. 32.

*Leucauge blanda* characters (182) pl. iii f. 8, pl. xv f. 394 *subblanda* (184) pl. xv f. 406, *subgemma* (185) pl. xv f. 398, pl. xvi f. 451, *subadulta* (186), spp. n. Japan BÖSENBERG and STRAND, T.c.—*L. profundi-foveata* sp. n. German E. Africa, STRAND, Zool. Anz., **30**, (683).—*L. rubrotrivittata, sexpustulata* spp. n. Himalayas SIMON Paris, Ann. Soc. ent. **75** (307).

*Linyphia albolimbata*, characters (171) pl. v f. 51 *yunohamensis* (173) pl. v ff. 43, 54, pl. xii f. 260, *sagana* (382) pl. iii f. 13, *limbatinella* (174) pl. xii f. 248, spp. n. Japan BÖSENBERG and STRAND, Abh. Senckenb. Ges. **30**.

*Lophocarenum punctiseriatum*, (159) pl. xii f. 274, *stylitum* (159) pl. x f. 196, spp. n. Japan BÖSENBERG and STRAND, T.c.

*Mangora* (?) *aethiopica* sp. n. Abyssinia STRAND Zool. Anz., **30** (618).

*Meta doenitzi* (180) pl. xi ff. 238, 239, *yunohamensis* (180) pl. xi ff. 225, 229, *kompirensis* (181) pl. xi f. 242, *vena* (382) pl. iii f. 6, spp. n., Japan, BÖSENBERG and STRAND, Abh. Senckenb. Ges. **30**.

*Metimorpha* gen. n., *tullia* sp. n. Japan BÖSENBERG and STRAND, T.c. (188–189) pl. xi f. 200.

*Miconeta mascula* characters BÖSENBERG and STRAND T.c. (170) pl. xii f. 263. —*M. nicholsonii* sp. n. Kew Gardens CAMBRIDGE O.P. Kew Bulletin, Add. Ser. **5** (58).—*M. passiva* (77, 89) pl. A ff. 22–

26, *territa* (77, 88) pl. A ff. 19–21, *beata* (77, 90) pl. A ff. 27–31 **ssp. n.** Yorkshire, Epping Forest CAMBRIDGE O. P. Proc. Dorset Nat. Hist. F. Cl. 27.

*Monocephalus* **gen. n.** for *Walckenaera fuscipes*, Bl. Britain and France SMITH J. Quek. Microsc. Cl. ser. 2, 9 (300) :

*Nemoscolus caudifer* **sp. n.**, West Africa STRAND Stuttgart, Jahreshefte Ver. Natk., 62, (55).

*Nephila clavata* (190) pl. iii f. 11 pl. xi f. 217 *malabarensis* (192) pl. xi ff. 216, 231, *chrysogaster* (193) pl. xi f. 208 characters BÖSENBERG and STRAND, Abh. Senckenb. Ges. 30.—*N. maculata* F. *novae-guineae* var. n. New Guinea STRAND Wiesbaden, Jahrb. Ver. Natk. 59 (261).—*N. obtubila* **sp. n.** Himalayas SIMON Ann. soc. ent. 75 (308).—*N. senegalensis* Walck. *winahukensis* subsp. n. West Africa STRAND Stuttgart, Jahreshefte Ver. Natk., 62, (52).—*F. submaculata* **sp. n.** Cameroons, STRAND, Wiesbaden, Jahrb. Ver. Natk., 59 (30).

*Oedothorax dentatus* characters (165) pl. xii f. 273 *bipunctis* (162) pl. xii f. 258, *femineus* (163) pl. xii f. 255, *insecticeps* (163) pl. xii f. 256 *exsiccatu* (166) pl. xii f. 265 **ssp. n.** Japan BÖSENBERG and STRAND, Abh. Senckenb. Ges. 30.

*Ogulnius pullus* **sp. n.** Japan BÖSENBERG and STRAND, T.c. (244), pl. xii f. 282.

*Pachygnatha africana* **sp. n.** Somaliland STRAND Zool. Anz., 30 (616).

*Parameta defecta* **sp. n.** Somaliland STRAND T.c. (617).

*Paraplectana japonica* **sp. n.** Japan BÖSENBERG and STRAND, Abh. Senckenb. Ges. 30 (242) pl. xv f. 424.

*Pelecopsis elongatum* Wid. type of genus SMITH J. Quek. Microsc. Cl. ser. 2 9 (315).

*Poecilopachys bufo* **sp. n.** Japan BÖSENBERG and STRAND, Abh. Senckenb. Ges. 30 (241) pl. iii f. 12, pl. xi f. 219.

*Prasonica affinis*, Algiers *olivacea* Somaliland **ssp. n.** STRAND Zool. Anz., 30 (619).

*Styloctetor broccha* L. Koch type of genus, incorrectly recorded from Ireland SMITH J. Quek. Microsc. Cl. ser. 2, 9 (310).

*Tetragnatha celebesiana* Blackwall = *Epeira nigrotrivittata* Dolesch. and T.

*celebesiana* Thor. = *T. decorata* Blackwall. SIMON Paris, Ann. soc. ent. 75 (282). *T. cephalothoracis* (616), *lamperti* (617), **ssp. n.**, Somaliland STRAND Zool. Anz., 30.—*T. squamata* (176) pl. iii f. 5, pl. xv f. 405 *praedonia* (177) pl. iii f. 7, pl. xv f. 404 characters *japonica* (177) pl. xv f. 409, *lea* (178) pl. xv f. 407, **ssp. n.** *nigrita niceensis* subsp. n. (179) Japan BÖSENBERG and STRAND, Abh. Senckenb. Ges. 30.

*Theridiosoma epeirodes* **sp. n.** Japan BÖSENBERG and STRAND, T.c. (243) pl. xii f. 291.

*Tigellinus saxicolus* Cambr. to *Trichonecus* SMITH J. Quek. Microsc. Cl. ser. 2, 9 (319).

*Tylorida striata* characters (187) pl. xv f. 420 *magniventer* (187) pl. xv f. 397, **sp. n.** Japan BÖSENBERG and STRAND, Abh. Senckenb. Ges. 30.

#### MIMETIDAE.

*Ero japonica* **sp. n.** Japan BÖSENBERG and STRAND, T.c. (245), pl. v. f. 56, pl. xii f. 252.

*Melaenosia* **gen. n.** *pustulifera* **sp. n.** India SIMON Paris, Ann. Soc. ent. 75 (285).

*Mimetus indicus* **sp. n.** Nilghiris, India SIMON T.c. (284).

#### THOMISIDAE.

*Cupa* **gen. n.** *typica* **sp. n.** Japan BÖSENBERG and STRAND, Abh. Senckenb. Ges., 30, (265–266) pl. xvi. f. 454.

*Diaea subadulta* **sp. n.** Japan BÖSENBERG and STRAND, T.c. (258) pl. xiii f. 302.

*Dieta chorion* **sp. n.** Nilgiris, India SIMON Paris, Ann. Soc. ent. 75 (286).—

*D. japonica* **sp. n.** Japan BÖSENBERG and STRAND, Abh. Senckenb. Ges., 30, (246) pl. x f. 158.

*Firmicus werneri* **sp. n.** Egyptian Sudan SIMON Wien, SitzBer. Ak. Wiss. 115 (1165).

*Gephyra pudica* Himalayas *virescens* Ceylon **ssp. n.** SIMON Paris, Ann. Soc. ent. 75 (311).

*Heriaeus difficilis* **sp. n.** Algeria STRAND Zool. Anz., 30 (626).—*H. melotéi* characters BÖSENBERG and STRAND Abh. Senckenb. Ges. 30 (257) pl. x

f. 163.—*H. pilosus* sp. n. Asia Minor  
NOSEK Wien, Ann. Nat. Hist. Hofmus.  
20 (135).

*Misumena braminica* sp. n. India  
SIMON Paris, Ann. Soc. ent. 75 (288).—*M. tricuspudata* (254) pl. x ff. 169, 170  
*calycina* (255) pl. x f. 164 characters,  
*japonica* (256) pl. x f. 172, *munitissima*  
(384) pl. vii f. 90 *yunohamensis* (257)  
pl. x f. 179 spp. n., Japan, BÖSENBERG  
and STRAND, Abh. Senckenb. Ges., 30.

*Monaeses paradoxus albidus* subsp. n.  
Egyptian Sudan SIMON Wien. SitzBer.  
Ak. Wiss. 115 (1165).

*Oxyptila aculeipes*, S. Tunis (626),  
*metschensis* German E. Africa (683),  
spp. n. STRAND Zool. Anz., 30.—*O. decorata*  
characters (258) pl. x ff. 173,  
177, 178 *truciformis* (259) pl. x. f. 154  
sp. n. Japan BÖSENBERG and STRAND,  
Abh. Senckenb. Ges., 30.

*Oxytate castetsi* sp. n. Himalayas  
SIMON Paris, Ann. soc. ent. 75 (310).—*O. setosa*  
characters BÖSENBERG and STRAND Abh. Senckenb. Ges. 30 (247)  
pl. vii f. 94, pl. x f. 175).

*Philodromus problematicus, quadrivulva*,  
Somaliland (627), *maculato-rittatus*  
German E. Africa (684) spp. n. STRAND  
Zool. Anz., 30.—*P. spinitarsis* (267)  
pl. vii f. 96, pl. x f. 157, *auricomus*  
(269) pl. x f. 171, *levipes* var. *tigrinus*  
(269) pl. xiii f. 316 characters; *nigro-*  
*striatipes, subaureolus* (270) pl. vii  
f. 91, pl. x f. 174, pl. xiii f. 307 spp. n.  
*aureolus japonicola* (268) pl. vii f. 93,  
pl. x f. 160 subsp. n. Japan BÖSENBERG  
and STRAND, Abh. Senckenb. Ges. 30.

*Pistius undulatus* (253) pl. xiii f. 308  
*truncatus* (253) pl. x f. 168, pl. xiii f. 309  
characters BÖSENBERG and STRAND T.c.

*Runcinia albostrata* sp. n. Japan  
BÖSENBERG and STRAND, T.c. (252) pl. x  
f. 162.—*R. depressa* sp. n. Mongalla, N,  
Uganda, SIMON Wien, SitzBer. Ak. Wiss.  
115 (1166).—*R. (Machomenus) longipes*  
sp. n. Somaliland, STRAND Zool. Anz.,  
30 (625).

*Synoema japonica* characters BÖSENBERG  
and STRAND Abh. Senckenb. Ges.  
30 (265) pl. x f. 165.

*Thanatus pagenstechei* sp. n. German  
S.W. Africa STRAND Wiesbaden, Jahrb.  
Ver. Natk., 59 (33).—*T. paucipunctatus*,  
(N-9720 n)

*multipunctatus* spp. n. Somaliland  
STRAND Zool. Anz., 30 (628).

*Thomisus labefactus* Karsch (249)  
pl. x f. 167 *bimaculatus* var. n. (250)  
pl. xiii f. 303 *onustoides* (251) pl. x  
f. 166 sp. n. Japan BÖSENBERG and  
STRAND, Abh. Senckenb. Ges., 30.—*T. leucaspis*  
(289) *granulifrons* (290)  
*rigoratus* (291) spp. n. India; *calidius*  
Thor. = *javanus* Sim. (nec. Thor)  
description (291) SIMON Paris, Ann. soc.  
ent. 75.

*Tibellus* compared with *Thanatus*,  
*vivilis* sp. n. India and Ceylon SIMON  
T.c. (293, 294).—*T. punctifasciatus*,  
Somaliland (628), *vosseleri* Algeria  
(629), spp. n. STRAND Zool. Anz., 30.—*T. tenellus*  
characters BÖSENBERG and STRAND Abh. Senckenb. Ges. 30 (271) pl.  
viii f. 112, pl. x f. 156.

*Tmarus solycinus, fasciolatus* spp. n.  
Nilghiris SIMON Paris, Ann. soc. ent. 75  
(287).

*Xysticus asiaticus* (132 pl. iv f. 12)  
*orientalis* (133 pl. iv f. 13) *montanus*  
(134 pl. iv f. 14) *spinifer* (134) spp. n.  
Asia Minor NOSEK Wien, Ann. Nat.  
Hist. Hofmus. 20.—*X. ephippiatus* Sim.  
(261) pl. x ff. 159, 161 *lateralis* Hahn  
*atrimaculatus* subsp. n. (264) pl. xiii  
f. 306 *insulicola* (260) pl. xiii f. 304  
*saganus* (261) pl. x f. 155 *tunicatus*  
(263) pl. x f. 176 *transversomaculatus*  
(263) pl. xiii f. 305 *celvariae* (355)  
pl. vii f. 92 spp. n. Japan BÖSENBERG  
and STRAND Abh. Senckenb. Ges. 30.—*X. subjugalis*  
sp. n. Somaliland STRAND  
Zool. Anz., 30 (626).

#### CLUBIONIDAE.

*Agroeca praticola* sp. n. Japan BÖSENBERG  
and STRAND, Abh. Senckenb. Ges.,  
30, (291) pl. xvi f. 464.

*Anahita fauna* characters BÖSENBERG  
and STRAND T.c. (290) pl. vii f. 86  
pl. xiii ff. 313, 314.

*Anyphaena pugil* characters BÖSENBERG  
and STRAND T.c. (289) pl. xiii f. 301.

*Castaneira recurvata* sp. n. Somaliland  
STRAND Zool. Anz., 30 (636).

*Chiracanthium abyssinicum, agnosticum, pallicolor* (633), *pauciaculeis*,  
(634), spp. n., Somaliland STRAND Zool.  
Anz., 30.—*C. camerunense* sp. n.

Cameroons STRAND Stuttgart, Jahreshefte Ver. Natk., 62, (75).—*C. confusum, trivittatum* spp. n. India SIMON Paris, Ann. soc. ent. 75 (297).—*C. lascivum*, characters (287) pl. xvi f. 502 *unicum* (287) pl. xvi f. 501, *japonicum* (288) pl. xvi f. 503, *digitivorum* (387) pl. vii f. 85, *culitha* (289) pl. xvi f. 496, *kompiricola* (387) pl. vii f. 87 spp. n. Japan BÖSENBERG and STRAND, Abh. Senckenb. Ges., 30.

*Clubiona acanthoememis, nilgherina* spp. n. India SIMON Paris, Ann. soc. ent. 75 (298).—*C. jucunda* (279) pl. vii f. 88, pl. xvi f. 495, *vigil* (280) pl. vii f. 89, pl. xvi f. 499, *lutescens* (283) pl. xvi f. 485, characters; *japonicola* (281) pl. xvi f. 498, *sulla* (282) pl. xvi f. 486, *corrugata* (283) pl. xvi f. 482, *neglectoides* (284) pl. xvi f. 505, *lena* (285) pl. xvi f. 493, *mantis* (286) pl. xvi f. 492, *mutilata* (285) pl. xvi f. 491, *kurilensis* (286) pl. xiii f. 315, *zilla* (386) pl. vii f. 81, spp. n. Japan BÖSENBERG and STRAND, Abh. Senckenb. Ges., 30.—*C. pogonias* sp. n. Himalayas SIMON Paris, Ann. soc. ent. 75 (312).—*C. subtrivialis, abbajensis* spp. n. *maxima* subsp. n. Somaliland STRAND Zool. Anz., 30 (632).

*Corinna longitarsis*, S. Thomé Is., *olivacea*, (636), *mandibulata, sanguinea* spp. n. *inquirenda* var. n. Somaliland STRAND T.c. (637).

*Ctenus clariventris* Abyssinia, *nigrotriangulatus*, (634), *biprocessis* Somaliland (635), spp. n. STRAND T.c.—*C. eribensis* (77) Cameroons, *beerwaldi* (78) East Africa, *renimulvatus* (80) *aureo-pubescentis* (82) *schneideri* (84) West Africa, spp. n. STRAND, Stuttgart, Jahreshefte Ver. Natk., 62.—*C. scopulatus* characters (291), *dreyeri* sp. n. Cameroons (292) STRAND Wiesbaden, Jahrb. Ver. Natk., 59.—*C. palembangensis* sp. n., Sumatra STRAND T.c. (272).

*Eusparassus chiracanthiformis, fulvicypeus*, (630), *cornipalpis, nigrichelis, subadultus*, Somaliland and Abyssinia (631), *ubac* German E. Africa (684), spp. n., *argelasius maximus* subsp. n. Algeria STRAND Zool. Anz., 30.—*E. 5-dentatus* (71) *6-dentatus* (73) spp. n., West-Africa STRAND Stuttgart, Jahreshefte Ver. Natk., 62.—*E. sanguinifrons* sp. n. Himalayas SIMON Paris, Ann. soc. ent. 75 (312).

*Heteropoda blaesei* characters STRAND Wiesbaden, Jahrb. Ver. Natk. 59 (290).

—*H. malitiosa* sp. n. India SIMON Paris, Ann. soc. ent. 75 (294).—*H. panaretiformis* sp. n. Sumatra STRAND Wiesbaden, Jahrb. Ver. Natk., 59 (269).—*H. venatoria* (273) pl. vi f. 64, pl. xvi f. 453 *invicta* Koch = *peditata* Karsch (275) pl. xv f. 437, pl. xvi f. 448 *forcipata* (276) pl. xv f. 438 characters BÖSENBERG and STRAND Abh. Senckenb. Ges. 30.

*Micaria unifascigera* (293) pl. xvi f. 497, *claripes* (388) pl. vi f. 68, spp. n., Japan BÖSENBERG and STRAND T.c.

*Nisuseta affinis* sp. n. Algeria STRAND Zool. Anz., 30 (630).

*Orthobula crucifera* sp. n. Japan BÖSENBERG and STRAND, Abh. Senckenb. Ges., 30, (292) pl. vi f. 74 pl. xvi ff. 469, 473.

(*Oxysoma delfini* sp. n. Juan-Fernandez SIMON Paris, Bul. soc. ent., 1905 (71).)

*Palystes rubrioculatus* sp. n. Kili-manjaro STRAND Zool. Anz., 30 (689)—*P. modifiteus* sp. n. South Africa STRAND Wiesbaden, Jahrb. Ver. Natk., 59 (37).

*Panaretidius gen. n. boutani* sp. n. Tonkin SIMON Paris Bul. soc. ent. 1906 (27).

*Rhytimna werneri* sp. n. Egyptian Sudan SIMON Wien, SitzBer. Ak. Wiss. 115 (1167).

*Sagella gen. n. octomunita* sp. n. Japan, BÖSENBERG and STRAND, Abh. Senckenb. Ges., 30, (279, 385), pl. vi f. 75.

*Selenops bursarius* characters BÖSENBERG and STRAND T.c. (272) pl. xvi f. 452.—*S. subradiatus* sp. n. Somaliland STRAND Zool. Anz., 30 (629).—*S. werneri* sp. n. Egyptian Sudan SIMON Wien, SitzBer. Ak. Wiss. 115 (1167).

*Simalio percomis, castaneiceps* (299) India *licorum, phucocephalus* (300) Ceylon spp. n. SIMON Paris, Ann. soc. ent. 75.

*Splingius caniceps, bilineatus* spp. n. India SIMON T.c. (301).

*Stasina japonica* (273) pl. xiii f. 310 *maulifera* (386) pl. vi f. 77, spp. n. Japan BÖSENBERG and STRAND, Abh. Senckenb. Ges., 30.

*Syrisca arabs* sp. n. Egyptian Sudan SIMON Wien SitzBer. Ak. Wiss. 115 (1168).—*S. drassiformis* sp. n. Somaliland STRAND Zool. Anz., 30 (635).

*Theleticopis maindroni* sp. n. India  
SIMON Paris, Ann. soc. ent. 75 (295).

*Torania manni* sp. n., Lagos STRAND,  
Stuttgart, Jahreshefte Ver. Natk., 62,  
(68).

*Trachelas japonicus* sp. n. Japan  
BÖSENBERG and STRAND, Abh. Senckenb.  
Ges., 30 (294) pl. xvi f. 504.—*T.*  
*quisquiliarum* (302) *orcophila* (303)  
*fronto* (304) spp. n. India and Ceylon  
SIMON Paris, Ann. soc. ent. 75.

*Wulfilia ventralis* sp. n. Bahamas,  
BANKS New York, Bull. Amer. Mus. 22  
(186).

#### AGELENIDAE.

*Agelena limbata* Thor. (296) pl. viii  
f. 104 pl. xvi f. 461 *opulenta* Koch (298)  
pl. xvi f. 467 characters; *tubicola* (297)  
pl. xvi f. 472, *ignota* (299) pl. xvi f. 466  
spp. n. Japan BÖSENBERG and STRAND  
Abh. Senckenb. Ges., 30.—*A. maculino-*  
*notum* sp. n. Somaliland STRAND Zool.  
Anz., 30 (656).

*Argyroneta aquatica* structure of nest  
UYTTENBOOGAART, Ber. Ned. Ent. Ver. 2  
(2-4).

*Coelotes molleendorffi* characters  
BÖSENBERG and STRAND Abh. Senckenb.  
Ges. 30 (303) pl. xvi ff. 463, 494.

*Coras insidiosus, luctuosus* characters  
BÖSENBERG and STRAND T.c. (300) pl. xvi  
ff. 458, 459.

*Cybaeus mellottéi* characters (295)  
pl. xvi f. 457 *striatipes* (295) sp. n.,  
Japan BÖSENBERG and STRAND, T.c.

*Hahnia corticicola, martialis*, spp. n.  
Japan BÖSENBERG and STRAND, T.c. (305)  
pl. vi f. 66, pl. xvi f. 477.—*H. maindroni*  
sp. n. India SIMON Paris, Ann. soc. ent.  
75 (305).

*Malthonica psechrina* sp. n. Himalayas  
SIMON T.c. (313).

*Tegenaria argaieca* sp. n. Asia Minor  
NOSEK Wien, Ann. Nat. Hist. Hofmus.  
20 (136) pl. iv f. 15.—*T. corasides* (301)  
pl. xvi f. 460, *muscipapa* (302) pl. xvi  
f. 479, *T. curta* (303) pl. xvi f. 478, *T.*  
*dia* (388) pl. vi f. 68 spp. n. Japan  
BÖSENBERG and STRAND, Abh. Senckenb.  
Ges., 30.—*T. dalmatica* sp. n.  
Dalmatia, KULOZYNSZKI Ann. Hist.-Nat.  
Mus. Nat. Hung., 4, (162).—*T. domestica*,  
autotomy and regeneration of legs  
FRIEDRICH, Arch. EntwMech., 20, (469-  
506) pl. xvii, xviii.

*Textrix nigromarginata* sp. n. Somali-  
land STRAND Zool. Anz., 30 (655).

#### PISAURIDAE.

*Caripeta japonica*, sp. n., Japan BÖSEN-  
BERG and STRAND, Abh. Senckenb.  
Ges., 30 (307) pl. xiii f. 343.

*Dolomedes fimbriatoides* (308) pl. xiii  
f. 341, *raptor* (309) pl. viii f. 119  
pl. xiii f. 342, *hercules* (310) pl. xiii  
f. 361, *saganus* (312) pl. viii f. 115,  
*japonicus* (313) pl. xiii f. 312, *oviger*  
(389) pl. viii f. 113, *pallitarsis*, (388)  
pl. viii f. 114 spp. n., Japan BÖSENBERG  
and STRAND, Abh. Senckenb. Ges., 30.  
—*D. habilis* sp. n. South Australia,  
Hogg London Proc. Zool. Soc. 1905  
(588) f. 89.—*D. lomensis* sp. n., West-  
Africa STRAND Stuttgart, Jahreshefte  
Ver. Natk., 62, (90).—*D. macrops* sp. n.  
Mongalla, N. Uganda SIMON Wien, Sitz-  
Ber. Ak. Wiss. 115 (1170).—*D. suma-*  
*tranus* sp. n. Sumatra STRAND Wiesbaden,  
Jahrb. Ver. Natk., 59 (275).

*Phalca aculeata* sp. n., Cameroons  
STRAND Stuttgart, Jahreshefte Ver. Natk.,  
62, (86).

*Pisaura lama* (306) pl. xiii f. 340,  
*P. clarivittata*, (389) pl. vi f. 76, spp. n.  
Japan BÖSENBERG and STRAND, Abh.  
Senckenb. Ges., 30.

*Tetragonophthalma brevipes* sp. n.  
German E. Africa STRAND Zool. Anz., 30  
(685).—*T. fascigera* sp. n. Japan BÖSEN-  
BERG and STRAND, Abh. Senckenb. Ges.,  
30 (306) pl. xiii f. 329.

*Thalassius radiato-lineatus* sp. n.  
Somaliland STRAND Zool. Anz., 30 (671).

#### LYÖOSIDAE.

*Evippa africana*, Somaliland (679),  
*brevipes* Tunis (680), spp. n., STRAND  
Zool. Anz., 30.

*Evippella* gen. n. *typica* sp. n. Algeria  
STRAND T.c. (680).

*Lycosa astrigera* (322) pl. vii f. 98,  
pl. xiii ff. 322, 327, *laura* (323) pl. viii  
f. 111, pl. xiii f. 317, 333 characters;  
*i-insignata* (324) pl. viii f. 109, pl. xiii  
ff. 337, 344, *doentzi* (325) pl. xiii f. 345  
*lyrivulva* (326) *cimereofusca* (393) pl. vii  
f. 99, *innominabilis* (392) pl. vii f. 100,  
*subtarentula* (393) pl. vii f. 101, spp. n.,  
Japan BÖSENBERG and STRAND, Abh.  
Senckenb. Ges., 30.—*L. aurantipes*,  
*novitatis*, *sordide-colorata* (677), *darolii*,

*proximella*, *verticillifer* (678), *subproximella*, (679), **spp. n.**, Abyssinia and Somaliland STRAND Zool. Anz., **30**.—*L. cursor insignis* var. n. (138) *lineatipes* **sp. n.** (139) Asia Minor NOSEK Wien, Ann. Nat. Hist. Hofmus. **20**.—*L. furva* Thor. characters STRAND Wiesbaden, Jahrb. Ver. Natk. **59** (295).—*L. tasmanica* (571 f. 80) Tasmania *phyllis* (573 f. 81) *molyneuxi* (575 f. 82) *castanea* (577 f. 83) *errans* (579 f. 84) *bicolor* (580 f. 85) *gilberta* (582 f. 86) *stirlingae* (584 f. 87) *arenaria* (586 f. 88) **spp. n.** South Australia; HOGG London, Proc. Zool. Soc. **1905**.

*Pardosa incerta* (139) pl. v f. 17 *consimilis* (140) pl. v f. 18 *pentheri* (141) pl. v ff. 21, 24 *ilgünensis* (142) pl. v ff. 20, 22 **spp. n.** *proxima* C. L. Koch (140) pl. v f. 19 Asia Minor NOSEK Wien, Ann. Nat. Hist. Hofmus. **20**.

*Pirata piraticus*, habits TRANI, Napoli, Boll. Soc. nat., **19**, (128-131).

*Tarentula depectinata* (314) pl. vii f. 97, pl. xiii f. 33<sup>2</sup> *procurva* (315) pl. xiii f. 321 *clercki* (316) pl. viii f. 107, pl. xiii f. 320 *subpiratica* (317) pl. xiii f. 339 *piratoides* (318) pl. xiii f. 336 *pseudoannulata* (319) pl. viii f. 106, pl. xiii ff. 323, 326, 334, 338 *pia* (320) pl. xiii f. 324 *subamylacea* (322) pl. xiii f. 318 *phila* (389) pl. viii f. 105 *palus* (391) pl. vii f. 95 *sepia* (391) pl. viii f. 108 *minae* (392) pl. vii f. 102 **spp. n.** Japan; *japonica* Sim. (318) pl. viii ff. 103, 110, pl. xiii ff. 319, 335, 346 *caelestis* Koch (321) pl. xiii f. 325 characters, BÖSENBERG and STRAND Abh. Senckenb. Ges. **30**.—*T. lamperti*, (92) *schweinfurthi* (96) **spp. n.** West Africa STRAND Stuttgart, Jahreshefte Ver. Natk., **62**.—*T. scopulitibiis*, Abyssinia and Somaliland, *interstitialis*, Oran, *manicola* (672), *atri-annulipes*, *hibernalis*, *illegalis* (673), *pardosella*, *picturella* (674) *aequioculata*, *mirabilis* Abyssinia and Somaliland, *rubieundi-colorata* Algeria, *trochosiformis* (675), *aballicola*, *parviguttata*, *septembris* (676) Abyssinia and Somaliland *molicola*, (685) *subannulipes* (686), **spp. n.** *urbana molensis*, *gofensis* *subsp. n.* German E. Africa STRAND Zool. Anz. **30**.

*Trabaea bidentigera* **sp. n.** German E. Africa STRAND T.c. (686).

#### OXYOPIDAE.

*Oxyopes africanus*, *erlangeri* (657), *luteo-aculeatus* Somaliland *oranicola*

(658) Oran, *akakensis*, *inconspicuus*, *notivittatus* (659), *lineatifemur*, *pallidecoloratus* (660), *abebae*, *infidelis*, *variabilis* (661), *hostides*, (662), Abyssinia and Somaliland, *ubensis* (686), German E. Africa **spp. n.**, STRAND Zool. Anz., **30**.—*O. servatus* characters (327) pl. viii f. 117 pl. xv f. 435 *saqanus*, **sp. n.** (327) pl. xiii f. 331, Japan BÖSENBERG and STRAND, Abh. Senckenb. Ges., **30**.

*Peucetia lampei* **sp. n.** German S.W. Africa STRAND Wiesbaden, Jahrb. Ver. Natk., **59** (42).—*P. rubrosignata* (656), *minima* (657), **spp. n.** Somaliland STRAND Zool. Anz., **30**.

#### SALTICIDAE.

*Aelurillus* (?) *dimorphus* **sp. n.**, Japan BÖSENBERG and STRAND, Abh. Senckenb. Ges., **30**, (398) pl. ix ff. 125, 126.

*Bianor pullus* **sp. n.**, Japan BÖSENBERG and STRAND, T.c. (354) pl. xix f. 378.

*Breda λ-signata* **sp. n.**, Japan BÖSENBERG and STRAND, T.c. (345) pl. ix f. 136, pl. xiii f. 352.

*Carrhotus detritus*, **sp. n.**, Japan BÖSENBERG and STRAND, T.c. (358) pl. xiv ff. 385, 391.

*Chira albiociput* **sp. n.**, Japan BÖSENBERG and STRAND, T.c. (366) pl. xiii f. 311.

*Cyllobelus tristellatus* **sp. n.** Egyptian Sudan SIMON Wien, SitzBer. Ak. Wiss. **115** (1171).

*Cyrra bidentata* **sp. n.** Somaliland STRAND Zool. Anz. **0** (662).

*Dendryphantus rubrosquamulatus* **sp. n.**, Japan BÖSENBERG and STRAND, Abh. Senckenb. Ges., **30**, (397) pl. ix f. 130.

*Epocilla xyliana* **sp. n.** Himalayas SIMON Paris, Ann. Soc. ent. **75** (314).

*Evarcha albifrons* (359) pl. xiv f. 380 *albaria* (361) pl. ix f. 140, pl. xiii ff. 350, 351 characters, *longipalpis* (361) pl. xiv f. 384, **sp. n.**, Japan BÖSENBERG and STRAND, Abh. Senckenb. Ges., **30**.

*Evophrys animotatus* (338) pl. ix f. 143, pl. xiv f. 367) *undulato-vittata* (339) pl. xiv f. 376 (?) *breviaculeis* (340) pl. xiv f. 387 *heliophaniiformis* (393) pl. ix f. 141, **spp. n.**, Japan BÖSENBERG and STRAND, T.c.—*E. convergentis* **sp. n.** Tunis STRAND Zool. Anz., **30** (663).—*E.*



*pulchella* sp. n. Asia Minor NOSEK  
Wien, Ann. Nat. Hist. Hofmus. 20  
(146).

*Giviria* gen. n., *unica* sp. n. Somaliland STRAND Zool. Anz., 30 (666).

*Harmochirus brachiatus* characters  
BÖSENBERG and STRAND Abh. Senckenb.  
Ges. 30 (373) pl. ix f. 147, pl. xiii  
f. 356.

*Hasarius adansoni* (367) pl. ix f. 134  
*doenitzi* (368) pl. xiii ff. 355, 362  
characters, *crucifer* (399) pl. viii f. 122,  
sp. n., Japan BÖSENBERG and STRAND,  
T.c.

*Heliophanus flavimaxillis* sp. n.  
Japan BÖSENBERG and STRAND, T.c. (334)  
pl. ix f. 151.—*H. tessalensis* sp. n.  
Abyssinia STRAND Zool. Anz., 30 (662).

*Hyllus fusciventris*, *thyeniformis*  
(664) *erlangeri*, *rubroinctus*, *ventrilin-*  
*catu* (665), *aethiopicus*, *fur*, *manensis*  
(666), spp. n., Abyssinia and Somaliland  
STRAND T.c. 30.—*H. lamperti* (356)  
pl. xiii f. 360, pl. xiv f. 369, *fischeri*  
(358) pl. xiv f. 383 spp. n. Japan  
BÖSENBERG and STRAND, Abh. Senckenb.  
Ges., 30.—*H. plexippoides* sp. n.  
Egyptian Sudan SIMON Wien, SitzBer.  
Ak. Wiss. 115 (1175).

*Leidella* gen. n., *interrogationis* sp. n.  
Japan BÖSENBERG and STRAND, Abh.  
Senckenb. Ges., 30, (35) pl. ix f. 148,  
pl. xiii f. 365.

*Icius magister* (353) pl. ix f. 133,  
pl. xiii f. 353 *elongatus* (353) pl. viii  
f. 124, pl. xiv f. 388 characters BÖSEN-  
BERG and STRAND T.c.

*Jotus linea*, characters (337) pl. xiv  
f. 375 *munitus* (334) pl. xiv ff. 374, 392,  
*abnormis* (336) pl. xiv f. 377 *difficilis*  
(336) pl. xiv f. 379, spp. n. Japan BÖSEN-  
BERG and STRAND, T.c.

*Laufeia aenea* characters BÖSENBERG  
and STRAND T.c. (370) pl. ix f. 137,  
pl. xiii f. 364.

*Marpissa* ? *vittata* characters (346)  
pl. viii f. 118, pl. xiv f. 368 *römeri* (346)  
sp. n. Japan BÖSENBERG and STRAND T.c.

*Menemerus pulla* (348) pl. ix f. 150,  
pl. xiii f. 150 *brachygnathus* (349)  
pl. xiv ff. 381, 386 characters, *confusus*  
(350) pl. ix f. 146, pl. xiv f. 370,  
*himeshimensis* (395) pl. viii f. 116,  
pl. xiv f. 390 spp. n. Japan BÖSENBERG  
and STRAND T.c.

*Mithion ocellatus* Th. characters  
STRAND Wiesbaden, Jahrb. Ver. Natk.  
59, (297).

*Modunda orientalis* sp. n. Japan  
BÖSENBERG and STRAND Abh. Senckenb.  
Ges. 30 (396) pl. viii f. 123.

*Myrmarachne japonica* characters  
(328) pl. ix f. 149, pl. xiv f. 372 *inner-*  
*michelis* (329) pl. ix f. 128, pl. xiv f.  
382 sp. n. Japan BÖSENBERG and STRAND  
T.c.

*Pellenes aethiopicus*, *mimicus*, spp. n.  
Abyssinia STRAND Zool. Anz., 30 (663).

*Phlaeus steudeli* sp. n., West Africa  
STRAND Stuttgart, Jahreshefte Ver. Natk.,  
62, (98).

*Phintella* gen. n., *typica*, sp. n. Japan  
BÖSENBERG and STRAND, Abh. Senckenb.  
Ges., 30, (333).

*Pilegra desquamata*, (663), *abessinica*,  
(664), spp. n., *bresnieri meridionalis*  
subsp. n. Somaliland STRAND Zool. Anz.,  
30.

*Plexippus paykulli* (362) pl. ix ff. 142,  
144, pl. xiii ff. 347, 354 *crassipes*, (363) pl.  
ix f. 139, pl. xiii f. 366 *setipes* (364)  
pl. ix f. 131 pl. xiii f. 363 characters  
*niccensis*, (365), *incognitus*, (399)  
pl. viii f. 120 spp. n. Japan BÖSENBERG  
and STRAND, Abh. Senckenb. Ges., 30.

*Pseudicus kulczyński* sp. n. Asia  
Minor NOSEK Wien, Ann. Nat. Hist.  
Hofmus. 20 (145) pl. v f. 26.

*Rhene atrata* characters BÖSEN-  
BERG and STRAND Abh. Senckenb. Ges.  
30 (355) pl. ix ff. 132, 145, pl. xiii f. 348.

*Sallicus marenzelleri* sp. n. Asia Minor  
NOSEK Wien, Ann. Nat. Hist. Hofmus.  
20 (143) pl. v f. 25.

*Siler cupreus* characters BÖSENBERG  
and STRAND Abh. Senckenb. Ges. 30  
(371) pl. xiv f. 389.

*Silerella* gen. n., *barbata*, sp. n.,  
Japan BÖSENBERG and STRAND, T.c. (371)  
pl. xiv f. 373.

*Sitticus floricola orientalis* (343)  
subsp. n. *pallicolor* (341) pl. ix f. 152,  
*numeratus*, *patellidens* (342) pl. ix ff. 135,  
138, pl. xiii ff. 358, 359, *saganus* (394)  
pl. ix f. 127 ? *scaveus* (395) pl. viii f. 121  
*subadultus* (395) pl. ix f. 129, spp. n.,  
Japan BÖSENBERG and STRAND, T.c.

*Stenaelurillus wernerii* sp. n. Mongalla,  
N. Uganda SIMON SitzBer. Ak. Wiss.  
115 (1174).

*Synagelides* **gen. n.**, *agoriformis* **sp. n.**, Japan BÖSENBERG and STRAND, Abh. Senckenb. Ges., **30**, (330).

*Telamonia bifurcilinea* **sp. n.**, Japan BÖSENBERG and STRAND, T.c. (331) pl. ix f. 153, pl. xiii f. 357.

*Theratoscirtus fusco-rufescens* **sp. n.** Camerouns STRAND Stuttgart, Jahreshefte Ver. Natk., **62**, (100).

#### SOLIFUGAE.

*Daesia zederbaueri* **sp. n.** Asia Minor WERNER Wien, Ann. Nat. Hist. Hofmus. **20** (114).

*Eusimonia serrifera* **sp. n.** Persia BIRULA St. Petersburg, Bull. Ac. Imp. Sci. **22** (280).

*Galeodes* key to Persian species (251) *karumensis* (254) *kermanensis* (260) *unicolor* (268) **spp. n.** Persia, *pococki* nom. n. for *nigripalpis* Poc. (256) *cyrus* Poc. (262) characters BIRULA T.c.—*G. caspius* Coast of Aral Sea BIRULA Taškent, Izv. Turk. Otd. Russ. Geogr. Obsč., **4**, (42-48) pl. v.—*G. bogojavlenskii* **sp. n.** Central Asia; BIRULA Zool. Anz., **30**, (25).

*Gylippus*, distribution in Russian Central-Asia, key to species BIRULA, Taškent, Izv. Turk. Otd. Russ. Geogr. Obsč., **4**, (42-48) pl. v.—*G. lamelliger* **sp. n.**, Central Asia BIRULA Zool. Anz. **30** (24) f. 1.—*G. monoceros* **sp. n.** Asia Minor WERNER Wien, Ann. Nat. Hist. Hofmus. **20** (113).—*G. pectinifer* **sp. n.** Buchara, Russia BIRULA, Taškent, Izv. Turk. Otd. Russ. Geogr. Obsč., **4**, (42-48) pl. v.—*G. quaestiunculus*, Karsch characters (283) *spinimanus* **sp. n.** Persia BIRULA St. Petersburg Bull. Ac. Imp. Sci. **22**.

*Rhagodes* key to Persian species (270) *melanochaetus* Heyn. characters (272) *zorab* (276) **sp. n.** Persia BIRULA St. Petersburg, Bull. Ac. Imp. Sci. **22**.

*Rhax melanopyga* defensive attitude FAUSSEK St. Petersburg, Zap. Russ. Geogr. Obsč., **27**, (146, 147) f. 54.

*Rhinippus* **gen. n.** *pentheri* **sp. n.** Asia Minor WERNER Wien Ann. Nat. Hist. Hofmus. **20** (113).

#### PSEUDOSCORPIONES.

*Pseudoscorpiones* of Sweden TULLGREN Entomol. Tidskr. Stockholm **27** (195-213).

*Atemnus elongatus* Bks Guatemala BERGER, Ohio Nat., **6**, (489-491) pl.

(*Blothrus peyerimhoffi* **sp. n.** caves of Basses-Alpes SIMON Paris, Bul. soc. ent. **1905** (282).)

*Chelifer*; characters (118-130) *nodosus* Schrank, structure of maxillae (29) pl. i f. 8a *mortensenii* (140) pl. ii ff. 9a-9c, pl. iii ff. 1a-1i Siam, *superbus* (147) pl. iii f. 3a Celebes, on Longicorn beetle, *modestus* (165) pl. iv ff. 1a-1d Nicobars, *galatheae* (167) pl. iv ff. 2a-2c Nicobars, *concauus* (173) pl. iv f. 3a Nicobars, *monitor* (180) pl. iv ff. 5a, 5b "Sunda Is.," *nicobarensis* (182) pl. iv 6a, 6b Nicobars, *plebejus* (185) pl. iv ff. 7a, 7b Nicobars, Burma, *vermiformis* (188) pl. iv ff. 8a, 8b Nicobars, *navigator* (191) pl. iv f. 9a "India," *indicus* (194) pl. iv ff. 10a-10d Madras, *rotundus* (196) pl. iv ff. 11a-11c Nicobars **spp. n.** *depressus* Koch (144) pl. ii f. 10a, pl. iii ff. 2a-2e "India," *subruber* Sim. (155) pl. iii ff. 7a-7g Nicobars *murrayi* Poc. (159) pl. iii ff. 8a-8j Nicobars *cocophilus* Sim. (171) pl. iii ff. 9a, 9b Malay Peninsula, *birmanicus* Thor. (176) pl. iii f. 10a, pl. iv ff. 4a-4f Burma; WIRTH, Kjöbenhavn, Vid. Selsk. Skr. **7**.—*C. sjöstedti*, Tullg. description *thoméensis* var. n. S. Thomé Is. (245) *guineensis* nom. n. for *pallidus*, Balzan *feae* Cape Verde (246) *pusillus* S. Thomé Is. (248) *equestroides* W. Africa (250) **spp. n.** *cimicoides* Fab. *basiléensis* var. n. Fernando Po (251) *rubidus* (252) *angulatus* (256) *garypoides* (258) West Africa **spp. n.** ELLINGSEN Genova Ann. Mus. Civ. stor. nat. **42**.

*Chernes cyrneus* in Notts, England KEW Trans. Nott. Nat. Soc. **1905-1906** (41-46) pl. v.

*Chernetidae*; genital tracheal system OUDEMANS Zool. Anz. **30** (135-140).

*Chernetes*; Arctic species STRAND Fauna Arctica **4** (431-478).

*Chthoniinae* characters (64-68) *Chthonius* structure of maxillae (25) pl. i ff. 1e-g, 2a *terribilis* **sp. n.** Siam (69) pl. i ff. 1a-1m *classici* Dad (73)

New Guinea. WITH Kjöbenhavn, Vid. Selsk. Skr. 7.

*Fecella* gen. n. *Fecellidae* fam. n. *mirabilis* sp. n. Portuguese Guinea ELLINGSEN Genova, Ann. Mus. Civ. stor. nat. 42 (259, 260) pl. iv.

*Garypidae* characters (89-95) *Garypus* characters (101-103) *irrugatus* Sim. (28) pl. i ff. 6a-6d, (104) pl. ii ff. 1a-1d Siam, *elegans* nom. n. (107) pl. ii ff. 2a, 2b Malacca WITH, Kjöbenhavn Vid. Selsk. Skr. 7.

*Garypinus nobilis* sp. n. Siam WITH T.c. (29) pl. i ff. 7a-7c (112) pl. ii ff. 8a-8g.

*Ideoroncus* structure of maxillae (27) pl. i ff. 4c-4f, 5b *siamensis* (81) pl. i ff. 4a-4i *laminatus* (84) pl. i ff. 5a-5c spp. n. Siam WITH T.c.

*Obisiinae*; characters (75) *Obisium muscorum* Leach (26) pl. i ff. 3a, 3b structure of maxillae WITH T.c.

*Olpium birmanicum* sp. n. Burma WITH T.c. (109) pl. ii ff. 7a-7h.

*Pseudobisiinae* characters WITH T.c. (77-79).

*Pseudochiridium* gen. n. characters (199-200) *thorellii* sp. n. (200) pl. iv ff. 12a-12g *Nicobars clavigerum* Thor. (204) pl. iv f. 13a Burma WITH T.c.

## OPILIONES.

*Phalangida* habits, occurrence in Yorkshire FALCONER Naturalist, London 1906 (215-220) (388-390), pl. xix.

Orkney islands spp. CAMBRIDGE, O. P. Ann. Scot. Nat. Hist. Edinburgh 57 (55).—Swedish spp. TULLGREN Entomol. Tidskr. Stockholm 27 (195-218).—Arctic spp. STRAND Fauna Arctica 4 (431-478).

*Dibumus* gen. n., *pseudobiantes* sp. n. New Guinea; verwandt mit *Ibalonius* Ksch. und *Dino* Loman, eine vermittelnde Stellung zwischen den *Hinzuanidae* und den *Epedanidae* einnehmend, LOMAN, Nova Guinea, 5, (4-6).

*Egagnus marenzelleri* sp. n. Asia Minor NOSEK Wien Ann. Nat. Hist. Hofmus. 20 (152).

*Erginus castaneus* sp. n. Bahamas BANKS, New York, Bull. Amer. Mus. 22 (189).

*Gibocellum sudeticum*, Stecker, an imaginary animal SÖRENSEN, Kjöbenhavn, Vid. Selsk. Overs., 1906, No. 4, (197-232).

*Ibalonius impudens* sp. n. New-Guinea LOMAN, Nova Guinea, 5, (3).

*Maracandus albiceps* sp. n. New-Guinea LOMAN T.c. (7).

*Marthana cornifer* sp. n. Malay Peninsula LOMAN, Hamburg, Mitt. naturhist. mus. 23 (103).

*Phalangium kulczynskii* (148), *argaeicum* (149), *strandii* (150), spp. n., Asia Minor, NOSEK Wien Ann. Nat. Hist. Hofmus. 20.

## ACARI.

New classification, new sub-classes, orders and sub-orders. OUDEMANS Ber. Ned. Ent. Ver. 2 (43-46).

Respiratory organs, mandibles OUDEMANS Ber. Ned. Ent. Ver. 2 (37-43); T.c. (47, 48); Zool. Anz. 29 (638, 639); T.c. (135-140); T.c. (633-637, 656).

*Acari* of New Guinea OUDEMANS Nova Guinea, 5 (101-162) plates i-iv.

Synopsis of Australian species RAINBOW Sydney N.S.W. Rec. Austr. Mus. 6 (145-193).

*Acari* in ants' nests, list of Bohemian species ROUBAL Prag, SitzBer. Böhm. Ges. Wiss. 1905 No. 15 (7, 8).

## HYDRACHNIDAE.

*Hydrachnida* classification THON Arch. Natw. Ld. Durchf. Böhmen, Prag 12 pt. 2 (4-12); List of Belgian spp. ROUSSEAU Brussels, Mém. soc. entom. Belgique 12 (181-188); List of Scotch spp. WILLIAMSON Edinburgh, Trans. Nat. Soc. 5 (239-242); spp. in Bologoje Lake Russia SOLOVJEV, St. Peterburg, Ber. Süswasserst. Naturf. Ges., 2, (277-280).

*Acercus spatulifer* sp. n. Lake Nemi, Italy MARUCCI Roma, Boll. soc. zool. ital. ser. 2, 6 (285).

*Amasis minimus* sp. n., Java PIERSIG Zool. Jahrb., Syst., 23, (351-354) pl. xv ff. 37-39.

*Arrhenurus* larvae parasitic on dragon flies SOAR J. Quek. Microsc. Cl. ser. 2 9 (362).—*A. aculeatifrons* (356-360) pl. xiii ff. 9-12, pl. xviii ff. 64-69, *gibberifrons*

- (372-375) pl. xix ff. 82-85 Java, *pseudoaffinis* (360-364) pl. xviii ff. 76, 77, pl. xix ff. 78-81, pl. xx ff. 94-97 *belaniensis* (364-366) pl. xx ff. 90-94 *bicornicodulus* (366-369) pl. xviii ff. 70-75, *palembangensis* (369-370) pl. xx ff. 99-103 *gracilipes* (370-372) pl. xx ff. 104-106 Sumatra spp. n. PIERSIG Zool. Jahrb. Syst. **23**.—*A. coronatus*, (772), *calycularis*, (773), spp. n., Macedonia GEORGEVITCH Zool. Anz., **30**; Ghlas Srpska Ak. **71** No. 28 (123-151).—*A. curtus* sp. n. (37) *caudatus mantonensis* var. n. (94) Lincolnshire GEORGE Naturalist, London, **1906**.—*A. kraepelini* sp. n. Java KOENIKE Hamburg, Mitt. naturhist. mus. **23**, (132) pl. ii ff. 24-27.—*A. maggii* sp. n. Pavia MAGLIO, Zool. Anz., **30**, (412).—*A. octagonus* sp. n. (8), pl. ii f. 5, *leuckarti* Piers. (9) *neumani* Piers. (9) *stecki*, Koen. (9), Ireland HALBERT Ann. Mag. Nat. Hist. London, **18**.—*A. pleupalpis* Koen. Lake Nyasa HALBERT Proc. Zool. Soc. London, **1906** (535).—*A. rosulatus* sp. n. Turkestan DADAY Math. Termt. Ért. Budapest, **21** (355).
- Atax affinis* sp. n. Java PIERSIG Zool. Jahrb., Syst., **23**, (324-327) pl. xiii ff. 1-5.—*A. crassipes* parasitic in *Spongilla fluviatilis* SOAR J. Quek. Microsc. Cl. ser. **2**, **9** (365)—*A. cumberlandensis* sp. n. Parramatta New S. Wales; RAINBOW Sydney N.S.W., Rec. Austr. Mus. **6** (160). *A. intermedius lavaronsensis*, var. n. LARGAIOLLI, Rivista mensile di Pesca, Milano, **8**, (286-288).—*A. necessarius* (105) pl. i ff. 1-2 *putendus* (108) pl. i ff. 3-5 spp. n. Java KOENIKE Hamburg, Mitt. naturhist. mus. **23**.—*A. pauciporus* (14) ff. 1, 2 *lynceus* (15) ff. 3-5 spp. n., German E. Africa KOENIKE Deutsch Ost-Afrika Hydrachniden.
- (*Atractides pavesii* sp. n. Ticino; MAGLIO Milano, Rend. Ist. lomb., ser. 2, **38** (152).)
- Aturus assercalatus* sp. n., Switzerland WALTER Zool. Anz., **30**, (572).
- Brachypodopsis coerulea* sp. n. Bangkok PIERSIG Zool. Jahrb. Syst., **23**, (354-356) pl. xv ff. 34-36.
- Curvipes discrepans* Koen = *thoracifer* Piers. KOENIKE, Zool. Anz., **30**, (514-515).
- Diplodontus despiciens* O. F. Müller *monticolus* var. n. Java PIERSIG Zool. Jahrb., Syst., **23**, (379) pl. xiii ff. 13-15.—*D. tenuipes* sp. n. Java KOENIKE Hamburg, Mitt. naturhist. mus. **23** (129) pl. ii f. 23.
- Eepolopsis* gen. n. *multiscutata* sp. n. Siam PIERSIG Zool. Jahrb., Syst. **23** (330-333) pl. xv ff. 31-33.
- Eucenridophorus spinifer*, Koen. Lake Nyasa HALBERT Proc. Zool. Soc. London, **1906** (534).
- Eulais*, anatomy, bionomics, characters of Bohemian species THON Arch. Natw. LdDurchf. Böhmen, Prag **12** pt. 2. (30-84).—*E. cavipontia*, *citellata*, (771), *bisacciata*, *dentata*, (772), spp. n., Macedonia GEORGEVITCH Zool. Anz., **30**; Ghlas Srpska Ak. **71** No. 28 (123-151).—*E. elpatiewskyi* sp. n. Mongolia; DADAY Math. Termt. Ért., **24**, (66).—*E. maccullochii*, sp. n., Parramatta, New S. Wales RAINBOW Rec. Austr. Mus., **6**, (160).—*E. marenzelleri* sp. n. Asia Minor THON Wien, Ann. Nat. Hist. Hofmus. **20** (158) pl. vi f. 2, pl. vii ff. 1-5.—*E. pseudorimosa* sp. n., Sumatra PIERSIG Zool. Jahrb. Syst. **23**, (380-382) pl. xvii ff. 62, 63.
- Eupatra rotunda* sp. n., Sumatra PIERSIG T.c. (376-379) pl. xxi ff. 107-111.
- Forelia parmata* nom. n. for *F. cassidiformis* Haller KOENIKE, Zool. Anz., **30**, (513-514).
- Frontipoda stuhlmanni* sp. n. Victoria Nyanza KOENIKE Deutsch Ost-Afrika Hydrachniden (5) ff. 12-15.
- Hydrachna* parasitic on aquatic Coleoptera and Hemiptera SOAR J. Quek. Microsc. Cl. ser. **2** **9** (363).—*H. orientalis* sp. n. Asia Minor THON Wien, Ann. Nat. Hist. Hofmus. **20** (155) pl. vi f. 2, pl. vii ff. 6-9.—*H. semiscutata* (382-384) pl. xix ff. 87, 88, *volzi* (384-386) pl. xix f. 89 spp. n. Bangkok PIERSIG, Zool. Jahrb. Syst. **23**.
- Hydrovolzia cancellata* sp. n., Switzerland WALTER Zool. Anz. **30** (575).
- Hydryphantes* parasite of *Caenia obscura* Mg. (Diptera) SOAR J. Quek. Microsc. Cl. ser. **2** **9** (364).—*H. koenikei* sp. n., Pavia, MAGLIO, Zool. Anz. **30** (410).
- Hygrobates calliger* Piers. Ireland HALBERT Ann. Mag. Nat. Hist. London, **18**, (10).—*H. falcipalpis* sp. n. Java KOENIKE Hamburg, Mitt. naturhist. mus. **23** (122) pl. ii ff. 16, 17.—*H. octoporus* sp. n. Mongolia DADAY J. Math. Termt. Ért., **24**, (67).

*Laminipes bullata* Thor. (10). *scaurus*, Koen. (11). Ireland HALBERT Ann. Mag. Nat. Hist. London, 18.

*Lebertia* (*Mixolebertia*) *helvetica* sp. n., Switzerland THOR Zool. Anz., 30, (478-484).—*L. inaequalis* Koch, characters, THOR, T.c. (70-78).—*L. lineata* (69), *walteri* (68), spp. n. Switzerland THOR, op. cit. 31.—(*L. pavesi* characters MONTI, Milano, Rend. Ist. lomb. ser. 2 37 (240).)—*L. porosa* Thor, *obscura* Thor, *insignis* Neuman, characters THOR Zool. Anz. 29 (761-790) ff. 32-54.

*Limnesia armata* (7) ff. 10, 11 *campanulata* (9) spp. n. German E. Africa KOENIKE Deutsch Ost-Afrika Hydrachniden.—*L. gentilis* sp. n. Java KOENIKE Hamburg, Mitt. naturhist. mus. 23 (124) pl. ii ff. 18-22.—*L. jamurensis* Oudms. New Guinea OUDEMANS Nova Guinea 5 (136) pl. iv. ff. 88-93.—*L. lembangensis* (348-350) pl. xvii ff. 53-61 Java, *L. volzi* (345-347) pl. xvii ff. 52-57 Sumatra spp. n. PIERSIG Zool. Jahrb. Syst. 23.

*Limnocharis aquaticus* L. characters THON Arch. Natw. LdDurchf. Böhmen, Prag 12 pt. 2 (22-30).

*Limnocharidae* structure THON T.c. (13-84).

*Mixolebertia* subgen. n. (*Lebertia*) THOR, Zool. Anz., 29, (770).

*Momonis* gen. n. (*Ilygrobatiidae*) *falcipalpis* sp. n., Ireland HALBERT Ann. Mag. Nat. Hist. London 18 (5) pl. ii, ff. 1-4.

*Neumania ambigua* (329, 330) pl. xv ff. 28-30, *N. volzi* (327-329) pl. xiv ff. 16-23 spp. n. Sumatra PIERSIG, Zool. Jahrb. Syst. 23.—*N. megalommata* (111) pl. i ff. 6-9 *pilosa* (114) pl. i ff. 10-13 *falcipes* (119) pl. ii ff. 14, 15 spp. n. Java KOENIKE Hamburg Mitt. naturhist. mus. 23.

*Nitocra platypus* sp. n. Siam, DADAY, Zool. Jahrb. Syst., 24, (192) pl. 15 ff. 10, 14-26, pl. 16 ff. 1-5.

*Paninus michaeli* Koen., Ireland HALBERT Ann. Mag. Nat. Hist. London 18 (11), pl. ii, f. 6.

*Partnumia steinmanni*, Zermatt, *lata*, Lugano, spp. n. WALTER Zool. Anz. 30 (570-571).

*Pilolebertia*, revision of genus THOR T.c. (271-275).

*Piona belaniensis* (338-340) pl. xvi ff. 44-46, *bipunctata* (335-338) pl. xiv ff. 24-27, *multipora* (334) pl. xvi

ff. 40-43 Sumatra, *pachyderma* (340-342) pl. xiii ff. 6-8 Bangkok, *pseudouncata* (342-344) pl. xvi ff. 47-51 Java spp. n. PIERSIG Zool. Jahrb. Syst. 23.—*P. macedonica* sp. n., Macedonia GEORGEVITCH, Zool. Anz., 30 (774); Ghlas Srpska Ak. 71 No. 28 (146).—*P. stjordaliensis*, Thor. Ireland HALBERT Ann. Mag. Nat. Hist. London 18 (11).

*Pionacercus*, details of anatomy of female figured GEORGE Naturalist, London 1906 (37).

(*Polyxo* gen. n. *placophora* sp. n. Italy MONTI Milano, Rend. Ist. lomb. ser. 2, 38 (170, 2 plates).)

*Pseudotorrenticola* gen. n., *rhynchota* sp. n. Switzerland WALTER Zool. Anz. 30 (573).

*Sperchon brevirostris* Koen., *longirostris* Koen. Ireland HALBERT Ann. Mag. Nat. Hist. London 18 (10).—*S. insignis* sp. n., Switzerland WALTER Zool. Anz. 30 (574).

(*S. ticinense* sp. n. Ticino MAGLIO Milano, Rend. Ist. lomb. ser. 2, 38 (150).)

*Tiphys mutatus*, Piers. Ireland HALBERT Ann. Mag. Nat. Hist. London 18 (11).—*T. zschokkei* sp. n., Switzerland WALTER Zool. Anz., 30, (322-326).

#### IXODIDAE.

*Ixodidae* anatomy BONNET Paris, C.-R. ass. franç. avanc. sci. 35 (126-127); Paris, C.-R. Acad. sci. 142 (296-298).—Anatomy, agency in transmitting diseases BUY Lyon, Ann. soc. 53 (93-155).—Anatomy and histology CHRISTOPHERS Sci. Mem. Med. Ind. Calcutta (new series) No. 23 1906 (1-53) with 6 pls.—Anatomy and bionomics WHEELER Cambridge, J. Agric. Sci. 1 (400-429), pls. v-x.

*Amblyomma* habits of South African species LOUNSBURY Rep. Brit. Ass. 1905 (282, 286-288).—*A. hirtum* Galapagos Is. (201) *sculpturatum* Brazil, Bolivia (203) *bispinosum* Venezuela (204) *pictum* Brazil (204) *incisum* Bolivia (206) *laticulatum* India (207) *prolongatum* Ceylon (208) spp. n. *caelebs* Neum. Bolivia (213), *geomysidae* Cantor, Sumatra (214) NEUMANN Arch. parasit. 10.—*A. scaevola* Oudms. New Guinea OUDEMANS Nova Guinea 5 (130) pl. iii ff. 51-58.

*Aponomma hydrosauri* Denny = *concolor* Neum. NEUMANN Arch. parasit. **10** (213).

*Argas reflexus* attacking pigeons NOËL, Naturaliste, Paris, sér. 2, **28**, (132-133).—*A. reflexus* Fab. *vespertilionis* Latr. *persicus* Fisch. structure WHEELER, Cambridge, J. Agric. Sci. **1** (407, 408, 428) pl. vi ff. 6-9 pl. x f. 39.—*A. transgaripepinus* White = *kochi* Neum. NEUMANN Arch. parasit. **10** (218).—*A. persicus* parasitic on birds LOUNSBURY Rep. Brit. Ass. **1905** (283, 284).—*A. lagenoplastis*, sp. n. New South Wales FROGGATT, Sydney, N.S.W., Proc. Linn. Soc., **31**, (408).

*Boophilus* habits of South African species LOUNSBURY, Rep. Brit. Ass. **1905** (291).—*B. annulatus* Say. internal anatomy ALLEN Tr. Amer. microsc. soc. **26** (245-280) pls. xxviii-xxxi; WILLIAMS Boston, Mass., Proc. Soc. Nat. Hist. **32** (313-334) pls. xviii-xxii; unusual host relations RANSOM Washington, D.C., Cir. U.S. Dept. Agric., Bur. Anim. Ind., No. **98**, (1-8).

*Ceratixodes putus* Cambr. structure WHEELER Cambridge J. Agric. Sci. **1** (415) pl. ix ff. 25, 26.

*Dermacentor reticulatus* Fab. structure WHEELER T.c. (422) pl. ix f. 28, pl. x ff. 33-35.—*D. atrosignatus* sp. n.? Australia NEUMANN Arch. parasit. **10** (210).

*Eschatocephalus vespertilionis* C. L. Koch structure WHEELER Cambridge J. Agric. Sci. **1** (417) pl. vii f. 15, pl. viii f. 19a.

*Eurhipicephalus* habits of South African species LOUNSBURY, Rep. Brit. Ass. **1905** (289-290).

*Haemaphysalis leachi* habits LOUNSBURY T.c. (288).—*H. punctata* Canest. and Fanz. structure WHEELER Cambridge J. Agric. Sci. **1** (421) pl. x ff. 30-32; anatomy of buccal apparatus NUTTALL, COOPER and SMEDLEY Rep. Brit. Ass. **1905** (439-441).—*H. spinulosa* sp. n. Uganda NEUMANN Arch. parasit. **10** (212).

*Hyalomma aegyptium* transmits parasites of Texas fever KOCH R. J. Trop. Med. London (76).—*H. aegyptium* var. *impressum* habits LOUNSBURY Rep. Brit. Ass. **1905** (288).—*H. hippopotamense*, synonymy NEUMANN Arch. parasit. **10** (216).—*H. syriacum* Koch structure WHEELER Cambridge J. Agric. Sci. **1** (419)

pl. vii 10-12; intermediary host of haematozoon in *Testudo ibera* POROVICI-BAZANANU Paris, C.-R. soc. biol. **60** (173-174).

*Ixodes*, gland system NORDENSKIÖLD Zool. Anz., **30**, (484-485).—*I. bicornis* Mexico (196) *simplex* Shanghai, Gaboon (197) *ugandanus* Uganda (198) *percaratus* Tristan da Cunha (200) spp. n. NEUMANN Arch. parasit. Paris **10**.—*I. borealis* on puffins and petrels St. Kilda EVANS Ann. Scot. Nat. Hist. **1906** (85)—*I. pilosus* habits LOUNSBURY Rep. Brit. Ass. **1905** (285, 286).—*I. reduvius* anatomy and histology NORDENSKIÖLD Zool. Anz., **30**, (118-125); SUTOROW St. Petersburg, Trav. Soc. Nat. **37** Nos. 7, 8 (310-315, 366).—*I. ricinus* Latr. *hexagonus* Leach var. *longispinosus* Neum. *temnostris* Neum. structure WHEELER Cambridge J. Agric. Sci. **1** (411-415) pl. vi. ff. 4, 5, pl. vii ff. 11, 13, 14, pl. viii ff. 16-19, 20-22, pl. ix ff. 23, 24, pl. x ff. 36-38.—*I. ricinus* parasites of horses JUNACK Zs. Veterinärk., **15**, (258-259).

*Ornithodoros* habits of South African species LOUNSBURY Rep. Brit. Ass. **1905** (284).—*O. megnini* Dugés structure WHEELER, Cambridge J. Agric. Sci. **1** (409).—*O. moubata* transmits spirochaete of human tick fever CANTLIE J. Trop. Med. London, **9** (11-12); KOCH R. T.c. (43-45); ROSS T.c. (65-69); habits WELLMANN T.c. (215); NEWSTEAD, Proc. Ass. Econ. Biol. **1** (74-77).—*O. savignyi* Aud. anatomy CHRISTOPHERS Sci. mem. med. Ind., Calcutta **23** (28-45) plates i-v.

*Rhipicephalus annulatus* internal anatomy CHRISTOPHERS T.c. (45-55), pl. vi.—*R. australis*, *evertsi* transmitting agents of Texas fever and coast fever parasites KOCH R. J. Trop. Med. London **9** (75, 76).—*R. cuspidatus* sp. n. Senegal NEUMANN Arch. parasit. Paris **10** (209).—*R. tricuspis* sp. n. Kalahari desert DÖNITZ Berlin, SitzBer. Ges. natf. Freunde, **1906** (146) ff. 7-9.

*Spelaeorhynchus praecursor* Neum. Pernambuco, not from Africa NEUMANN Arch. parasit. **10** (220).

#### ACARI. (*Other families*).

*Achorolophus trimaculatus* Herm. *niger* var. n. Netherlands OUDEMANS Ber. Ned. Ent. Ver. **2** (18).

*Aleurobius farinae* L. *africana* var. n. Germany (?) OUDEMANS, Ber. Ned. Ent. Ver. 2 (43).—*A. fanis* sp. n. Netherlands OUDEMANS T.c. (20).

*Allothrombidium fuligineum* (17) *adustum* (17) *incarnatum* (18) spp. n. Netherlands OUDEMANS T.c.—*A. muscae* sp. n. Netherlands OUDEMANS T.c.

*Amerus speciosus* sp. n. Sikkim PEAROE J. R. Microsc. Soc. 1906 (272), pl. xiii f. 6.

*Anoctus lorentzi* Oudms. New Guinea OUDEMANS Nova Guinea 5 (146) pl. v ff. 116–118.

(*Anoctus lorentzi* sp. n. New Guinea OUDEMANS Ber. Ned. Ent. Ver., 23 (223).)

*Antennophorus* symbiosis with ants, characters of *uhlmanni*, *grandis*, *pubescens*, *foreli* KARAVAJEV Kiev. Zap. Obsč. Jest. 20 (209–230).

*Archaeonothrus* gen. n. (870), *natalensis* sp. n. (871) Natal TRÄGÅRDH, Zool. Anz. 30.

*Carpoglyphus alienus* sp. n. in human urine, Java HAAN Centralbl. Bakt., Abt. 1, 40, (694).—*C. passulorum* characters BANKS Washington, Tech. Ser., U. S. Dept. Agric. Div. Ent. 13 (25) pl. v f. 40.

*Celaenopsis weberi* Oudms. New Guinea OUDEMANS Nova Guinea 5 (121) pl. ii ff. 12–23.

*Cepheus heimi* sp. n. on fungus, France HEIM and OUDEMANS Paris, Bul. Soc. ent., 1903, (312).—*C. lamellatus* sp. n. Massachusetts BANKS Philadelphia Proc. Acad. Nat. Sci. 58 (497) pl. xv f. 14.

*Chauliaca piscicauda* sp. n. on *Cypselus*, SPEISER Königsberg, Schr. physik. Ges., 47, (77).

*Chaumoproctus* gen. n. (Oribatidae) *cancellatus*, *asperulus* spp. n. Sikkim PEAROE, J. R. Microsc. Soc. 1906 (271) pl. xiii ff. 3, 4.

*Cheiletus eruditus* in fodder LUCKS Landw. Versuchstat. Berlin 64 (477–480).

*Cheletinae* revision of genera and species OUDEMANS Paris Mém. soc. zool. 19 (36–144).

*Cillibaena (Uropoda) aquatica* sp. n., Sumatra PIERSEG, Zool. Jahrb. Syst. 23 (386–388) pl. xxi ff. 112–118.

*Dermanyssus avium*, parasite of birds KLEE, Fühlings landw. Ztg, 55, (98–103).—*D. gallinae* an intermediate host of a haemogregarine of the jerboa BALFOUR Second Report of the Wellcome Research Laboratories at the Gordon Memorial College Khartoum (108).

*Dermoglyphus arami* description OUDEMANS Tijdschr. Ent. 49 (264) pl. xii ff. 44, 45.

*Epicrius mollis* (265) f. 1. *geometricus* (265) f. 2. *canistrinii* (266) f. 3 in Lincolnshire GEORGE Naturalist, London 1906.

*Eremaeus* into 5 Genera *Liacarus*, *Xenillus*, *Eremaeus*, *Liebstadia* gen. n. and *Oribatula* OUDEMANS Ber. Ned. Ent. Ver., 2, (100).—*Eremaeus* type *hepaticus* KOCH OUDEMANS T.c. (100).

*Ereunetes lapidarius* sp. n. Netherlands OUDEMANS T.c. (40).

*Eriophyes* different species infesting identical trees COLLINGE Proc. Ass. Econ. Biol. 1 pt. i (10, 11).—*E. hibisci* sp. n. Fiji Is. NALEPA J. econ. Biol. 1 (147–150) pl. x.—*E. passerinae* attacking leaves of *Giardia hirsuta* GERBER Paris, C.R. Acad. sci. 143 (844, 845).

*Erythraeus debeauforti* description OUDEMANS Nova Guinea 5 (134) pl. iv ff. 79–87.

*Euiphis siculus* sp. n. on *Scarabaeus semi-punctatus*, Sicily OUDEMANS, Ber. Ned. Ent. Ver. 2 (7).

*Eupodes viridis* sp. n. Netherlands OUDEMANS, T.c. (40).

(*Fallopia* gen. n. type *Rhyncholophus poriferus* OUDEMANS Ber. Ned. Ent. Ver. 23 (222).)

(*Gabucinia* gen. n. type *Pterolichus delibatus* OUDEMANS Ber. Ned. Ent. Ver. 23 (224).)

*Galumna slossonae* (490) pl. xiv ff. 1–3. *unimaculata* (490) pl. xviii f. 33. *nitidula* (491) pl. xvii f. 27. *persimilis* (491) pl. xv ff. 13, 15. *imperfecta* (492) pl. xvi f. 21. *minusecula* (492) pl. xv f. 11. *armipes* (492) pl. xiv ff. 8, 9. *virginica* (493) pl. xvi f. 18. *turqida* (493) pl. xvii ff. 25, 26. *texana* (494) pl. xvii f. 24. spp. n. United States BANKS Philadelphia, Proc. Acad. Nat. Sci. 58.

*Gamasus* characters, affinities, phylogeny, list of species BERLESE Redia, 3 (68–304) plates ii–xix.—*G. (Trachy-*

*gamasus* subgen. n.) (116) (*Gamasus*) *americanus* sp. n. (138) Paraguay, (*Eugamasus*) *magnus* Kram. *monticola* var. n. (179) Italy, *immanis* sp. n. (179) Norway, Iceland, (*Amblygamasus*) *septentrionalis* Oud. *germanicus* (189) Germany, *norvegicus* (190) Norway, varr. n., *Pergamasus* subgen. n., (191) *parvulus*, *dilatatellus* (205) *distinctellus* (206) varr. n. Italy, *falculiger* sp. n. (211) Italy, *crassipes* L. *longicornis* var. n. (232) N. Europe, *decipiens*, Berl. *brevipes* (241) Italy, *germanicus* (242) Germany varr. n., (*Ologamasus*) *calcaratus* Koch *siculus* (248) Sicily *excisus* (249) Norway varr. n., *pollicipatus* Berl. *excipuliger* (252) *apeminorum* (253) *pseudoperforatus* (254) *peraltus* (256) *cultriger* (256) varr. n. Italy, *inornatus* sp. n. (257) Germany (? *Gamasus*) *monacanthus* (266) Cape of Good Hope, *modestus* (267) Norway, spp. n.; BERLESE Redia, 3.

*Glyciphagus domesticus* on apples LUDWIG, Zs. Pflanzenkrankh., 16, (13-15).—*G. obesus* (12) pl. 1 ff. 1-3, *robustus* (13) pl. i f. 1 spp. n. United States BANKS Washington Tech. Ser. U. S. Dept. Agric. Div. Ent. 13.—*G. pilosus* nom. n. for *G. setosus* Oudms. (non C. L. Koch) OUDEMANS, Tijdschr. Ent., 49, (LI).

*Hafenrefferia* gen. n. type *Oribates gilvipes* C. L. Koch, OUDEMANS, Ber. Ned. Ent. Ver., 2, (62).

*Halarachne* sp. in nasal cavities of Weddell's seal BLANCHARD Arch. parasit. 10 (313).

*Hericia robini*, Can. in Germany LUDWIG, Zs. Pflanzenkrankh., 16, (137-139).

*Histiogaster entomophagus spermaticus* Trt. = *spermaticus* Trt. description TROUËSSART Arch. parasit. 10 (314, 315).—*Histiostoma gracilipes* (10) pl. i ff. 9, 12 *brevipes* (11) pl. i ff. 10, 11 *americanum* (11) pl. i ff. 6, 7 spp. n. United States BANKS, Washington, Tech. Ser. U. S. Dept. Agric. Div. Ent. 13.

*Holothyrs* histology of repugnatorial glands THON Prag, SitzBer. Böhm. Ges. Wiss. 1905 No. 10 (1-41) plates i, ii.—*H. coccinella* (713) *longipes* (714) pl. xxix f. 16 characters, *braueri* (681) pl. xxviii, xxix ff. 11-15 *seychellensis* (718) pl. xxix ff. 18, 19 *niger* (716) pl. xxix f. 17 spp. n. Seychelles THON Zool. Jahrb. Syst. 23.

*Hoploderma claviger* sp. n. Sikkim PEARCE, J. R. Microsc. Soc. 1906 (273).

*Horstia* gen. n. type *Trichotarsus ornatus* Oudms.; to same genus *helenae* Oudms., *manicati* Giard, *trifilis* Can.; OUDEMANS Ber. Ned. Ent. Ver. 2 (21).

(*Ingrassia* gen. n. type *Meguinimia veligera* OUDEMANS Ber. Ned. Ent. Ver. 23 (224).)

*Ingrassia veligera* description OUDEMANS Tijdschr. Ent. 49 (265) pl. xii ff. 46-51.

*Joelia* gen. n. type *Oribates florii* Coggi. OUDEMANS, Ber. Ned. Ent. Ver. 2 (61)

*Laelaps (Laelaspis) zuluensis* sp. n., Zululand TRÄGÅRDH Zool. Anz. 30 (873).

*Leptus autumnalis*, transmits the Kedani disease of Japan TANAKA Centralbl. Bakt. 42 (16-18, 104-108, 235-240, 329-334); in dogs ROTH, Wochenschr. Tierheilk., 50, (341-345, 361-365, 381-384).

*Li acarus bicornis* sp. n. England WARBURTON and PEARCE Proc. Zool. Soc. 1905 (506) pl. xix f. 4.—*L. carolinensis* (494) pl. xvi f. 17 *abdominalis* (495) pl. xviii ff. 29, 32 *frontalis* (495) pl. xiv ff. 4, 5 spp. n. United States BANKS Philadelphia Proc. Acad. Nat. Sci. 58.—*L. nigrescens* sp. n. Sikkim PEARCE, J. R. Microsc. Soc. 1906 (270) pl. xiii f. 2.—*L. palmicinctus* description RICHTERS Umschau, Frankfurt a. M., 10, (215-216).

*Liebstadia* gen. n. type *Notaspis similis* Michael, OUDEMANS, Ber. Ned. Ent. Ver., 2, (101).

(*Limnesia jamurensis* sp. n. New Guinea OUDEMANS Ber. Ned. Ent. Ver. 23 (223).)

*Liponyssus pipistrelli* sp. n. Netherlands, OUDEMANS Ber. Ned. Ent. Ver. 2 (37).—*L. cyclaspis* nom. n. for *L. pipistrella* Oudms., OUDEMANS T.c. (61).

*Macrocheles siculus* sp. n. on *Scarabaeus ½-punctatus* Sicily OUDEMANS T.c. (7).

*Megacanestrina* gen. n., *mucronata* sp. n. Zululand TRÄGÅRDH Zool. Anz. 30 (877).

*Megisthanus moaifensis* (124) pl. ii ff. 24-29 pl. iii ff. 30-39, *orientalis* (127) pl. iii ff. 40-50 characters OUDEMANS Nova Guinea 5.



(*Megistanus moadfensis, orientalis* spp. n. New Guinea OUDEMANS Ber. Ned. Ent. Ver. **23** (222).)

*Monieziella angusta* (23) pl. ii ff. 15 *longipes* (23) pl. ii f. 13, *brevitarsis* (24) pl. ii ff. 18, 19 spp. n. United States. BANKS Washington, U. S. Dept. Agric. Div. Ent. **13**.

*Myrmolaelaps* gen. n., *equitans* sp. n., Zululand TRÄGÅRDH Zool. Anz. **30** (874).

*Neochelylus* gen. n. *natalensis* sp. n. Natal TRÄGÅRDH T.c. (870).

*Neoliodes floridensis* sp. n. Florida BANKS Philadelphia, Proc. Acad. Nat. Sci. **58** (499) pl. xvi f. 19.—*N. ocellatus* sp. n. Sikkim PEARCE, J. R. Microsc. Soc. **1906** (272) pl. xiii f. 7.

*Neomegistus* gen. n. *julidicola* sp. n. Natal TRÄGÅRDH Zool. Anz. **30** (872).

*Notaspis castanea* (496) pl. xvi f. 16 *carbonaria* (496) pl. xviii ff. 30, 31 spp. n. California BANKS Philadelphia, Proc. Acad. Nat. Sci. **58**. — *N. hamatus* sp. n. Sikkim PEARCE, J. R. Microsc. Soc. **1906** (271), pl. xiii f. 5.—*N. maculosa* (pl. xx f. 1) *sculptilis* (pl. xx f. 2) spp. n. England WARBURTON and PEARCE Proc. Zool. Soc. **1905** (567).

*Nothrus crinitus* (567) pl. xx f. 3 *crassus* (568) pl. xx f. 5 spp. n. *lectorum* (568) pl. xx f. 4 *anaemensis* (569) characters, England and Scotland WARBURTON and PEARCE T.c.—*N. taurinus* sp. n. Virginia, BANKS Philadelphia Proc. Acad. Nat. Sci. **58** (499) pl. xvii f. 23.

*Oppia spinipes* (496) pl. xvii f. 22 *canadensis* (497) pl. xiv f. 7 *montana* (497) pl. xv f. 10 spp. n. United States and Canada BANKS T.c.

*Oribata fallax* sp. n. Sikkim PEARCE J. R. Microsc. Soc. **1906** (270) pl. xiii f. 1. — *O. furcata* (565) pl. xix f. 1 *omissa* (565) pl. xix f. 2 spp. n. *rubens* C. L. Koch (565) England WARBURTON and PEARCE Proc. Zool. Soc. **1905**. — *O. puritanica* (498) pl. xiv f. 6 *longisetata* (498) pl. xv f. 12 spp. n. United States BANKS Philadelphia Proc. Acad. Nat. Sci. **58**.

*Oribatula* type *Notaspis tibialis* Nic. OUDEMANS Ber. Ned. Ent. Ver. **2** (101). — *O. pallida* sp. n. New Jersey, United States BANKS Philadelphia Proc. Acad. Nat. Sci. **58** (494) pl. xviii f. 28.

*Oxypleurites bisetus* sp. n. (*Eriophyi-dae*) Fiji Is. NALEPA J. econ. Biol. **1** (150).

*Paramegistus* gen. n. *confrater* sp. n. Natal TRÄGÅRDH Zool. Anz. **30** (873).

*Parasitus bomborum* description OUDEMANS Tijdschr. Ent. **49** (237) pl. ix ff. 1-14). — *P. vesparum* sp. n. in wasps' nest, Netherlands OUDEMANS Ber. Ned. Ent. Ver. **2** (4).

*Pediculoides pilosus* nom. n. for *Pygmephorus spinosus* ♀, Michael OUDEMANS, Tijdschr. Ent. **49** (xviii).

*Pergamasus* subgen. n. v. *Gamasus*. — *P. italicus* sp. n. Padua, Italy OUDEMANS Ber. Ned. Ent. Ver. **2** (16). — *P. primitivus* description HEIM and OUDEMANS Paris, Ann. soc. ent. **75** (57-62) pl. iv-vi.

*Phyllocoptes tricerus* sp. n. on conifers, Germany BÖRNER, Berlin, Arb. biol. Anst., **5**, (139-142).

*Plutarechia chelopus* description OUDEMANS Tijdschr. Ent. **49** (250) pl. x ff. 30-35 pl. xi ff. 36-39.

*Protolichus euryenemis major, strictus, hemiphyllus dilatatus, velifer neglectus, trachiatius strangulatus, favettei cordiphora* subsp. n. *magnificus, splendens, distensus, attenuatus* spp. n. *attenuatus ovalifolia* subsp. n. FAVETTE and TROUES-SART Paris Mém. soc. zool. **17** (120-166 with pl.).

(*Proctophyllodes detruncatus, separatifolius* spp. n. Netherlands OUDEMANS Ber. Ned. Ent. Ver. **23** (225).)

*Proctophyllodes pinnatus* Nitzsch synonymy, OUDEMANS Ber. Ned. Ent. Ver. **2** (23).

(*Pterodectes corvicolus* sp. n. Netherlands OUDEMANS Ber. Ned. Ent. Ver. **23** (225).)

(*Raillietia* gen. n. for *Gamasus auris* TROUES-SART Paris, Bul. soc. zool. **27** (231-233).)

*Rhagidia mordax* sp. n. Netherlands, OUDEMANS, Ber. Ned. Ent. Ver. **2** (39).

*Rhizoglyphus phylloxerae* (20) pl. vi ff. 57, 60, 61 description, *tarsalis* (20) pl. v ff. 45, 46, *rhizophagus* (21) pl. vi ff. 50-52, *elongatus*, (22) pl. vi ff. 53, 54, *longitarsis* (22) pl. vi ff. 55, 58 spp. n. United States BANKS Washington Tech. Ser. U. S. Dept. Agric. Div. Ent. **13**.

*Rhyncholophus montanus* Mt. Kocsiusko 600 ft. *celeripes* Sydney spp. n. RAINBOW, Rec. Austr. Mus., 6, (155-156), ff. 33, 34.

*Sammonica ovalis* (259) pl. xi ff. 40, 41 *doryphora* (261) pl. xii ff. 42, 43 descriptions OUDEMANS Tijdschr. Ent. 49.

*Sarcoborus* Oudins, cancelled for *Sarcopterinus* Railliet, OUDEMANS, Ber. Ned. Ent. Ver., 22 (216).—*S. crista-galli* under epidermis of Australian Parrot, FERNET Brit. J. Dermatol. 18 (238).

*Sarcoptes minor* var. *cuniculi* parasite of the rabbit GMEINER, Arch. Thierheilk., 32 (170-185).

*Schizocarpus mingaudi* parasite of beaver MINGAUD Nature, 33 2<sup>o</sup> sem. (118-119) f. 2.

*Seutovertex petrophagus* sp. n. in limestone, Ithaca, New York BANKS, Ent. News, 17, (194).

*Sebaia palmata* description OUDEMANS Tijdschr. Ent. 49 (241) pl. ix ff. 15-20.

(*Seiulus novae-guineae* sp. n. New Guinea OUDEMANS Ber. Ned. Ent. Ver. 23 (222).)

*Seiulus novae-guineae* characters OUDEMANS Nova Guinea 5 (120) pl. ii ff. 1-11.—*S. truncatus* sp. n. Netherlands OUDEMANS, Ber. Ned. Ent. Ver. 2 (8).

*Sennertia* gen. n. type *Pediculus cerambeinus* Scop., to same genus *Trichotarsus coptorthosomae* Oudms., *japonicus* Oudms., *hipposiderus* Oudms., *alfkeni* Oudms., *bifilis* Can. OUDEMANS T.c. (21-22).

*Stamfordia* gen. n. (874), *carabicola* sp. n. Natal (875) TRÄGÅRDH Zool. Anz. 30.

*Suidasia pontifica* description OUDEMANS, Tijdschr. Ent. 49 (245) pl. x ff. 21-29.

*Tarsoptomus parietinus* Herm. = *comes* Berl., *berlesci* nom. n. for *parietinus* Berlese non Hermann, OUDEMANS, Ber. Ned. Ent. Ver. 2 (87).

*Termitacarus* gen. n. *cuneiformis* sp. n. Natal TRÄGÅRDH Zool. Anz. 30 (875).

*Tetranychus* sp. Java, parasitic on *Manihot dulcis* CRAMER Teijsmannia 17 (718-724).

*Trachygamasus* subgen. n. vide *Gamasus*.

*Trachyuropoda (Janetiella) termitofila* sp. n. Natal TRÄGÅRDH Zool. Anz. 30 (871).

*Trombidium* habits MAXWELL-LEFROY Indian insect pests, Calcutta (219-220); economic notes CHITTENDEN Washington Bull. U. S. Dept. Agric. Div. Ent. Circ. 77 (1-6).—*T. locustarum* Riley, on locusts JARVIS Canad. Entomol. 38 (349, 350); Ann. Rep. Ent. Soc. Ontario, 37 (111).—*T. sericatum* sp. n. Victoria, New S. Wales RAINBOW Sydney, N.S.W., Rec. Austr. Mus., 6, (158).—(*T. striaticeps* (91) *poriceps* (93) spp. n. France HERM and OUDEMANS Paris, Bul. soc. ent., 1904.)—(*T. vandersandei* (216) *wichmanni* (217) spp. n. New-Guinea OUDEMANS Ber. Ned. Ent. Ver. 22 (216-217); Nova Guinea 5 (131-132) pl. iv ff. 59-78).—*T. vandersandei* parasitic on man in New-Guinea, OUDEMANS Nova Guinea, 5, (148-161).

*Tyroglyphinae*; habits, MAURIZIO Centrabl. Bakt., Jena, Abt. 2, 15, (606-623, 723-736).

*Tyroglyphus dimidiatus* Herm. synonymy and description OUDEMANS Nova Guinea 5 (138) pl. v ff. 94-115.—*T. farinae* (14) pl. ii ff. 14, 17 *lintneri* (15) pl. iii ff. 23-25 *heteromorphus* (18) pl. iv ff. 36-39 *longior* (14) pl. v f. 44 descriptions, *americanus* (16) pl. iii ff. 21-22 *cocciphilus* (16) pl. iv ff. 33-35 *breviceps* (17) pl. iv ff. 30-32 *terminalis* (17) pl. iii ff. 26-28 *armipes* (18) pl. v ff. 41-43 spp. n. United States BANKS Washington Tech. Ser. U. S. Dept. Agric. Div. Ent. 13.—*T. lepismus* sp. n. on *Timarcha tenebricosa* (Coleoptera) France BENOIT-BAZILLE Microgr. prépar. Paris 14 (11-17).—*T. longior* in houses JARVIS Canad. Entomol. 38 (239-242).

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*Veigaia* gen. n. type *Gamasus nemorensis* Koch, to same genus *cervus* Kram. *herculeana* Berl. OUDEMANS Ber. Ned. Ent. Ver. 2 (6).

*Vidia* gen. n. *undulata* sp. n. on *Prosopis conformis* Italy OUDEMANS T.c. (22).

*Xenillus* type *clypeator* Desv. = *Notaspis castaneus* Herm. OUDEMANS T.c. (100).

*Zuluacarus* gen. n. *termitophilus*  
sp. n. Zululand TRÄGÅRDH Zool. Anz.  
30, (876).

### TARDIGRADA.

*Diphascion alpinum* sp. n. Scotland  
MURRAY Ann. Scot. Nat. Hist. Edinb.  
1906 (29) pl. iii ff. 1-3.—*D. chilense*  
(695) pl. iv ff. 23a-23b *spitzbergense*  
(695) pl. iv ff. 24a-24b characters,  
*angustatum* sp. n. (695) pl. iv ff. 25a-  
25c Scotch lakes MURRAY Edinb. Trans.  
R. Soc. 41.—*D. oculatum* sp. n. Scotland  
MURRAY Ann. Scot. Nat. Hist. Edinb.  
1906 (216) pl. v f. 1.

*Echiniscus* characters (679-682) *arc-*  
*tomys* Ehr (682) *gladiator* (683) pl. i ff  
1a-1c *mutabilis* (683) pl. i ff. 2a-2d  
spp. n. *wendti* Richters (684) pl. i ff 3a-  
3c *reticulatus* sp. n. (684) pl. i. ff. 4a-4c  
*oikoumae* Richters (685) pl. i ff. 5a-5b  
*granulatus* Doy (685) pl. ii ff. 6a-6f  
*spitzbergensis* Scourfield (686) pl. ii ff.  
7a-7c 3 doubtful species (687, 688) pl.  
ii ff. 8-10 Scotch lakes MURRAY Edinb.  
Trans. R. Soc. 41.—*E. ulmi* sp. n. Spitz-  
bergen RICHTERS Zool. Anz. Leipzig 30  
(125).

*Macrobotus* eggs figured MURRAY Ann.  
Scot. Nat. Hist. Edinb. 1906 (27-28) pl.  
iii ff. 6-18.

*Macrobotus* characters (688-689)  
*hufelandi* C. Sch (690) *echinogenitus*  
Richters (690) *islandicus* Richters (690)  
pl. iii ff. 12a-12c *ornatus* Richters (691)

pl. iii ff. 13a-13c *oberhäuseri* Doy (692)  
*macronyx* Doy (693) pl. iii ff. 16a-16d  
*intermedius* Plate (693) *annulatus* (691)  
pl. iii ff. 14a-14c *papillifer* (692) pl.  
iii ff. 15a-15c spp. n. Scotch lakes  
MURRAY Edinb. Trans. R. Soc. 41.—*M.*  
*coronifer*, *echinogenitus* spp. n. Spitz-  
bergen RICHTERS, Zool. Anz., 30,  
(125-127).—*M. macronyx* in Mon-  
golia DADAY Math. Term. Ért., 24,  
(34-77); variety in Scotland MURRAY  
Ann. Scot. Nat. Hist. Edinb. 1906 (216)  
pl. v f. 2.

*Milnesium tardigradum* Doy Scotch  
lakes MURRAY Edinb. Trans. R. Soc. 41  
(696).

*Microlyda* nom. nov. = *Lydella* Dujar-  
din, præc. HAY, Washington, Proc.  
Biol. Soc., 19, (46-47).

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*Linguatula rhinaria* parasitism KOCH  
Arbeiten aus dem path. Inst. zu Berlin.  
Berlin (A. Hirschwald), (288-348), mit  
2 Taf.

*Pentastomum denticulatum*, parasitic  
on man LAENGER, Centralbl. Bakt.,  
Jena, Abt. 1, 40, (368-371).

(*Pentastomum constrictum* in man,  
Senegal THIROUX Paris, C.-R. Soc. Biol.  
59 (78-80)).

*Poroccephalus indicus* sp. n. in *Gavialis*  
*gangeticus*, Calcutta LINSTOW J. As. Soc.  
Beng. 2, (270) pl. iii ff. 6-10.

# MYRIOPODA

## CONTENTS (*see p. 3*)

### I.—TITLES.

*Titles in brackets refer to works that have been previously recorded in the Zoological Record.*

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## II.—SUBJECT INDEX.

*N.B.—For full reference go to Titles.*

### GENERAL.

Gliederfüssler: Arthropoda. H. G. Bronn's Klassen u. Ordnungen des Tier-Reichs, Bd. 5, Abt. 2, Lfg 75-77.) (175-215) Taf.; **Verhoeff**, **4**.

### STRUCTURE.

Morphology of *Myriopoda*; **Hennings**, **1, 3**.

Morphology of *Diplopoda*; **Verhoeff**, **3**.

Coxo-pleural sclerites of *Chilopoda*; **Verhoeff**, **1**.

Tömösvary's organ in *Myriopoda*; **Hennings**, **2**.

### PHYSIOLOGY.

Phagocytosis in *Diplopoda*; **Bruntz**, **1, 2**.

Experiments on secretions of *Spirobolus marginatus*; **Melander** and **Brues**. (Experiments on ventral nerve-cord of *Myriopoda*; **Carlson**.)

(Hermaphroditism in a myriopod; **Chalande**, **3**.)

### DEVELOPMENT.

(Spermatogenesis of *Scutigera forceps*; **Medes**.)

Young of *Scutigera*; **Williams**.

### ETHIOLOGY.

Sporozoon parasites of *Glomeris*; **Léger** and **Duboscq**.

Caves of Basses-Alpes; **Peyerimhoff**.

### GEOGRAPHICAL.

Europe, *Diplopoda* spp. and subspp. n.; **Verhoeff**, **2**.

Europe, *Diplopoda* subspp. and varr. n.; **Verhoeff**, **3**.

Kanin Peninsula, N. Russia, *Myriopoda* 4 spp. n.; **Muralewitsch**.

Crimea; **Lignau**.

British Isles, Hampshire, Cumberland, Norfolk, Surrey, Somerset, *Myriopoda*; **Pocock**, **1**.

Botanic Gardens, Kew, *Myriopoda* and *Diplopoda*; **Pocock**, **2**.

Nottinghamshire, *Myriopoda*; **Carr**.

Scotland, St. Kilda, *Myriopoda*; **Evans**.

France, *Myriopoda*; **Chalande**, **1**,

(France, *Myriopoda*; **Chalande**, **2, 4**.)

(France, *Julus* 4 spp. n.; **Ribaut**, **2**.)

(France, *Diplopoda* 2 spp. n., 2 subspp. n.; **Brölemann**, **6**.)

Basses-Alpes, *Myriopoda*; **Peyerimhoff**.

Switzerland, *Pauropoda*; **Carl**, **1**.

Asia Minor, *Myriopoda* gen. and spp. n.; **Attems**.

(Indo-China, *Diplopoda*; **Brölemann**, **3**.)

Sumatra, *Diplopoda* 4 spp. n.; **Carl**, **2**.

Malay Peninsula, *Diplopoda* 1 gen. n.; **Verhoeff**, **3**.

Maldives and Laccadives, *Myriopoda*; **Pocock**, **3**.

French Sudan, *Myriopoda* 4 spp. n. 1 var. n.; **Brölemann**, **1**.

Togoland, *Spendononema camerunense*; **Poche**.

Cameroons, *Myriopoda*; **Sjöstedt**,

Gulf of S. Lawrence, Anticosti Is., *Myriopoda*; Schmitt.

Colorado, *Lithobius* sp. n.; Chamberlin.

(Costa Rica, *Myriopoda* gen., spp. and varr. n.; Brölemann, 7.)

Guatemala, *Myriopoda* 7 spp. n.; Brölemann, 2.

(Guatemala, *Myriopoda*; Brölemann, 4.)

*Sphendononema camerunense* Togo-land not Cameroon's POCHÉ, Zool. Anz., 30, (567-568).

*Trigonoecryptops* gen. n. for *Cryptops gigas* Krpl., *bottegi* Silv., *numidicus* Luc. VERHOEFF Halle, Nova Acta Leop. 86 (390).

## Diplopoda.

*Diplopoda* morphology VERHOEFF Arch. Naturg. Berlin 72 Bd. 1 (107-226).

(*Acanthiulus* defined BRÖLEMANN Paris, Ann. soc. ent. 72 (469-477) pl. viii ff. 5, 6.)

(*Aceratophallus unicolor lamellifer* var. n. Costa Rica BRÖLEMANN Paris, Ann. soc. ent. 74 (346) pl. viii ff. 1-5.)

(*Blauinulus serrula* sp. n. Basses-Alpes BRÖLEMANN Feuille jeunes natural. 35 (1) ff. 76-78.)

*Brachyiulus (Chromatiulus) pentheri* (165) pl. viii ff. 1-3 *annulatus* (165) pl. viii ff. 4-7 spp. n. Asia Minor ATTEMS Wien, Ann. Nat. Hist. Hofmus. 20.

(*Colobodesmus* gen. n. *biolleyi* sp. n. Costa Rica BRÖLEMANN Paris, Ann. soc. ent. 74 (347-350) pl. viii ff. 8-12, pl. ix ff. 13, 14.)

(*Epinannoleus bicornis* sp. n. Costa Rica BRÖLEMANN Paris, Ann. soc. ent. 74 (356) pl. ix f. 16.)

*Fontaria* characters (8, 9) *violacea* sp. n. (10) Guatemala BRÖLEMANN An. Mus. San Salvador, 3.

*Gervaisia* anatomy of genus, *cultrifera* (810) *noduligera* (812) spp. n. *noduligera styrica* (812) *acytula transylvanica*, *multiclavigera declivis* (811) subspp. n. Europe VERHOEFF Zool. Anz. 30.

*Glomeris hexasticha* Brandt, *boleti* (124, 139), *eimeri* (139), *bosniensis*, *calcivaga*, *rabensteinensis*, *theresiaca*, *quercivora*, *marcomannia* (140), subspp. n., *connexa* C.K., *fagivora* (153), *scutolimbata* (157), subspp. n., *formosa* Latz. *mirzelae* (159) subspp. n., *conspersa* s.l. *albanensis* (166) subspp. n.; *dorsosanguine* (178), *rugifera* (187), spp. n. Europe VERHOEFF Arch. Natg. Berlin 72. Bd. 1.

*Julus londinensis finitimus* var. n., RIBAUT, Bul. soc. hist. nat., 37, (48-52) av. fig.

## III.—SYSTEMATIC.

*Myriopoda*, classification and morphology HENNING'S Zool. Ann., Würzburg, 2, 1906, (47-70); Zs. wiss. Zool., 80, (576-641) 2 Taf.; Review of recent literature HENNING'S, Zool. Centralbl., 13 (1-31); Species of Franco CHALANDE Toulouse, Bul. Soc. hist. nat., 36, (65-69); 38 (46-79) with pl.; 39 (79-154); of the Crimea LIGNAU Odessa, Mém. soc. nat. 28 (197-199).

## Chilopoda.

*Chilopoda* anatomy and phylogeny, VERHOEFF Halle, Nova Acta Leop., 86 (349-501).

*Ballophilus maldivensis* sp. n. Maldives POCKOCK Fauna Maldives 2 (1042).

*Chromatanops* gen. n. for *Cryptops bivittatus* Pocock VERHOEFF Halle, Nova Acta Leop. 86 (389).

*Cyclorhabdus contortus* sp. n. Guatemala BRÖLEMANN, An. Mus. San Salvador 3 (6).

*Lithobius (Pleuroolithobius) argaensis* sp. n. Asia Minor ATTEMS Wien, Ann. Nat. Hist. Hofmus. 20 (164). — *L. caninensis* (66) *fallax*, *ignotus* (68) *L. litoralis* (67) spp. n., Kanin peninsula MURALEWITSCH, Zool. Anz., 30. — *L. guatemalae* sp. n. Guatemala BRÖLEMANN, An. Mus. San Salvador 3 (4). — *L. harrietae* sp. n. Colorado CHAMBERLIN, Philadelphina, Proc. Acad. Nat. Sci., 58, (3-4).

(*Lithobius vulcani costaricensis* var. n. Costa Rica BRÖLEMANN Paris, Ann. soc. ent. 74 (339).)

*Seutigrella immaculata* young stages, WILLIAMS Science, New York, N.Y. 23 (527).

(*Julus (Leptoilulus) garumnicus*, (*Cylindroiulus*) *ehalandei*, *lignicola*, (*Leucoilulus*) *spinosus*, spp. n. France RIBAUR, Toulouse, Bul. Soc. hist. nat., **37**, 1904, (15-27).)

(*Julus (Cylindroiulus) allobrogicus turincensis* subsp. n. France BRÖLEMANN Feuille jeunes natural. **35** (6) ff. 81, 82.)

(*Julus (Typhloilulus) scultevorum* sp. n. France BRÖLEMANN Feuille jeunes natural. **35** (5) ff. 79, 80.)

*Leptodesmus rodriguezi* sp. n. Guatemala BRÖLEMANN, An. Mus. San Salvador **3** (11).

*Odontopyge dilatata* (201) *conani* (203) pl. iv ff. 1-5 *fulanica* (206) spp. n. French Sudan BRÖLEMANN Paris, Mém. soc. zool. **18**.

*Platyrachus nitidus* sp. n. Guatemala BRÖLEMANN, An. Mus. San Salvador **3** (6).

(*Platydesmus lankesteri* sp. n. Costa Rica BRÖLEMANN Paris, Ann. soc. ent. **74** (354) pl. ix f. 15.)

(*Platyrhacus stenopterus* sp. n. Costa Rica BRÖLEMANN Paris, Ann. soc. ent. **74** (343).)

*Rhamphidoilulus* gen. n. *bujukderensis* sp. n. Asia Minor ATTEMS Wien. Ann. Nat. Hist. Hofmus. **20** (166) pl. viii ff. 8-10.

*Rhinocricus obesus* sp. n. Guatemala BRÖLEMANN An. Mus. San Salvador, **3** (78).

*Rhopalomeris* gen. n. *Rhopalomerinae* sub. fam. n. for *Glomeris bicolor*, Wood Salanga Is., Malay Peninsula VERHOEFF Arch. Naturg. Berlin **72** (188-194).

*Siphonotus gardineri* sp. n. Laccadives Pocock Fauna Maldive **2** (1045).

*Sphaeropeus velutinus* (232) pl. xvii ff. 19-22 *volzi* (233) pl. xvii ff. 7-11 *cinctus* (235) pl. xvii ff. 23-26 spp. n. Sumatra CARL Zool. Jahrb. Syst. **24**.

*Spirobolus marginatus* Say, experiments on secretions MELANDER and BRUES Milwaukee, Bull. Wis. Nat. Hist. Soc. **4** (26-28).

*Spirostreptus lugubris* Brölem. *sudanic* var. n. (208) pl. iv ff. 6, 7 *contortus* sp. n. (209) pl. v French Sudan BRÖLEMANN Paris, Mém. soc. zool. **18**.—*S. rodriguezi* sp. n. Guatemala BRÖLEMANN An. Mus. San Salvador **3** (75).—(*Spirostreptus (Scaphiostreptus) typotypyge* sp. n. (359) pl. ix f. 17 *palmensis* subsp. n. (362) pl. ix f. 18 *omalopyge* (365) pl. ix f. 19 Costa Rica BRÖLEMANN Paris, Ann. soc. ent. **74**.)—*S. vittatus*, Newp. (238) pl. xvii f. 4 *rubrocinctus*, Poc. (239) pl. xvii f. 14 *javanicus*, Brdt. (240) pl. xvii ff. 1-3 *coelestis*, Silv. (241) pl. xvii ff. 12, 13 Sumatra CARL Zool. Jahrb. Syst. **24**.

*Trachelomegalus sumatranus* sp. n. Sumatra CARL Zool. Jahrb. Syst. **24** (243) pl. xvii ff. 15-18.

(*Trichoblanulus hirsutus cavernicola* subsp. n. Basses-Alpes BRÖLEMANN Feuille jeunes natural. **35** (1) ff. 74, 75.)

*Trigoniulus scaphurus* sp. n. Maldives Pocock Fauna Maldive. **2** (1044) f. 154.

## Pauropoda.

*Pauropoda* in Switzerland CARL Arch. Sci. Phys., Genève **22** (407).



# PROTOTRACHEATA

## CONTENTS (*see p. 3*)

### I.—TITLES.

**Bouvier, E. L. 1.** Observation biologique. Le *Peripatus Edwardsi* au Brésil. Paris, Bul. soc. ent., **1906**, (268).

(**Bouvier, E. L. 2.** Les œufs des Onychophores. Nouv. Arch. Museum, Paris, sér. 4, **6**, 1904, (1-50), av. fig.)

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### II.—SUBJECT - INDEX.

#### STRUCTURE.

Fat body and nephrocytes in *Peripatus*; **Philipschenko**.

(Male genital organs of *Peripatus*; **Bouvier, 3**.)

Affinities of *Peripatus*; **Handlirsch**.

#### PHYSIOLOGY.

Physiology of excretion in *Peripatus*; **Bruntz**.

#### DEVELOPMENT.

(Eggs of *Onychophora*; **Bouvier, 2**.)

#### GEOGRAPHICAL.

Brazil, Espírito Santo, *Peripatus edwardsi*; **Bouvier, 1**.

### III.—SYSTEMATIC.

(*Onychophora* eggs; **BOUVIER, 2** Nouv. Arch. Muséum, Paris, (sér. 4), **6**, (1-50), av. fig.)

*Peripatus* affinities, **HANDLIRSCH** Wien, Verh. Zool.-bot. Ges. 1906 (88-103).

*Peripatus leuckarti* Saenger to *Peripatoides*, **DENDY**, Zool. Anz., **30**, (175-177).—*P. edwardsi* in Espírito Santo, Brazil, **BOUVIER**, Paris, Bul. soc. ent., **1906**, (268).—(*P. tholloni* male genital organs, **BOUVIER** Paris, Bul. Soc. ent., **1904**, (192-193).)



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