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N

ZOOLOGY

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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 volumes for Pure Mathematics and Mechanics are published. The Subject Index for Physics is in preparation.

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RELATING CHIEFLY TO THE YEAR

1911

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Papers and Memoirs intended for this work should be addressed to "THE EDITOR of the Zoological Record, Zoological Society, Regent's Park, London, N.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 1911 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.

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 1911 but includes entries for 1901–1910 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 Eleventh annual issue of the International Catalogue of Scientific Literature and Volume XLVIII 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.

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I. COMPREHENSIVE AND GENERAL ZOOLOGY.

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VII. BRACHIOPODA AND BRYOZOA OR POLYZOA.

VIII. MOLLUSCA.

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XI. ARACHNIDA AND MYRIOPODA; including also GIGANTOSTRACA, EURYPTERIDA, PROTOTRACHEATA.

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ALPHABETICAL INDEX OF NEW NAMES OF GENERA AND SUBGENERA.

LIST OF ABBREVIATIONS AND OF TITLES OF JOURNALS.

International Catalogue of Scientific Literature

Accn. 823
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SCHEDULE

OF

CLASSIFICATION

(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. Im 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 donnée 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 régne 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, e 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 ciaschedun ramo. 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-divisons *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.. Nemathelminthes.
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 ergiebt sich aus folgender Liste:—

Titel-Zettel.
Umfassende und allgemeine Arbeiten. (Unterabteilungen *siehe* Hyperzoologie *p.* 18.)
Morphologie. (Unterabteilungen *siehe* 0207.)
Physiologie. (Unterabteilungen *siehe* 0211.)
Entwickelung. (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.
Nemathelminthes.
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.* Hyperzoologie *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 étiologie. (Pour les subdivisions *voy.* 0223.)
..27 Distribution géographique. (Pour les subdivisions *voy.* (J) Géographie.)
..31 Taxonomie.

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.. Némathelminthes.
16.. Chætognathes. Rotifères. Gastrotriches. Kinorhynques (ou Echinodères).
18.. Archiannélides. Polychètes. Myzostomes. Oligochètes. Géphyriens. Phoronis. Hirudinées.

(ISTRUZION).

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.)
Variazione 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.
Nemathelminthes.
Chætognatha. Rotifera. Gastrotricha. Kinorhyncha (vel Echinodera).
Archiannelida. Polychæta. Myzostomaria. Oligochæta. Gephyræa. Phoronis. Hirudinea.

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

Brachiopoda. Bryozoa (oder Polyozoa).
Mollusca.
Arthropoda.
Crustacea.
Trilobita. Xiphosura. Eurypterida. Pantopoda. Tardigrada. Linguatulida.
Arachnida.
Prototracheata.
Myriopoda.
Insecta.
Aptera (oder Apterygogenea). Anoplura. Mallophaga. Thysanoptera (oder Physopoda). Siphonaptera (oder Aphaniptera).
Orthoptera, Neuroptera und Trichoptera.
Hemiptera (oder Rhynchota), excl. Anoplura, die unter 36 .. eingeordnet sind.
Diptera, excl. Siphonaptera, die unter 36.. eingeordnet sind.
Lepidoptera.
Hymenoptera.
Coleoptera, incl. Strepsiptera.
Prochordata : Amphioxus (oder Leptocardii), Enteropneusta, Tunicata.
Vertebrata.
Pisces, excl. Leptocardii (oder Amphioxus), die unter 50 .. eingeordnet sind).
Amphibia und Reptilia.
Aves.
Mammalia.

Es wird beabsichtigt, ausser dem Gesamtbande noch drei separate, aus folgenden Abschnitten bestehende Teile herauszugeben: 12.. bis 18.. (Vermidea); 28.. bis 34..; und 35..bis48.. (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-(Taxonomie-) 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).
22.. Mollusques.
24.. Arthropodes.
26.. Crustacés.
28.. Trilobites. Xiphosures. Eurypterides. Pantopodes. Tardigrades. Linguatulides.
30.. Arachnides.
32.. Prototrachéates (ou Onychophores).
34.. Myriapodes.
35.. Insectes.
36.. Aptères (ou Aptérygogéniens). Anoploures. Mallophages. Thisanoptères (ou Physopodes). Siphonaptères (ou Aphaniptères).
38.. Orthoptères, Névroptères et Trichoptères.
40.. Hémiptères (ou Rhynchotes), à l'exclusion des Anoploures, qui sont placés sous le numéro 36..
42.. Diptères, à l'exclusion des Siphonaptères, qui sont placés sous le numéro 36..
44.. Lépidoptères.
46.. Hyménoptères.
48.. Coléoptères, y compris les Strepsiptères.
50.. Prochordés : Amphioxus (ou Leptocardiens) Entéropneustes, Tuniciers.
52.. Vertébrés.
54.. Poissons, à l'exclusion des Leptocardiens (ou Amphioxus), qui sont placés sous le numéro 50..
56.. Batraciens et Reptiles.
58.. Oiseaux.
60.. Mammifères.

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.

Brachiopoda. Bryozoa (vel Polyzoa).
Mollusca.
Arthropoda.
Crustacea.
Trilobita. Xiphosura. Eurypterida. Pantopoda. Tardigrada. Linguatulida.
Arachnida.
Prototracheata (vel Onychophora).
Myriopoda.
Insecta.
Aptera (vel Apterygogenea). Anoplura. Mallophaga. Thysanoptera (vel Physopoda). Siphonaptera (vel Aphaniptera).
Orthoptera, Neuroptera et Trichoptera.
Hemiptera (vel Rhynchota), esclusi Anoplura, che sono indicati col numero 36..
Diptera, esclusi Siphonaptera, che sono indicati col numero 36..

Lepidoptera.
Hymenoptera.
Coleoptera, incl. Strepsiptera.

Prochordata : Amphioxus (vel Leptocardii), Enteropneusta, Tunicata.
Vertebrata.
Pisces, escl. Leptocardii (vel Amphioxus), i quali sono indicati col numero 50..
Batrachia et Reptilia.
Aves.
Mammalia.

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 comune (arbitrario). Questo numero non è da usa si

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 meme façon ques les fiches d'auteur pour les autres sciences.

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 altri annotazioni sulla scheda a titolo si fanno poi come sulle schede per autori nelle altre scienze.

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.

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.

Exemple—

N 6000.

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

Esempio—

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.

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.

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

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 Bureaus 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 Verfassername 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 Bureaus, 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 Verfassername, (*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.

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 *hc.*
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 *hc.*
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

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

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

Giusto le suddette istruzioni questo si ridurebbe a :—

N 2227 *hc.*
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 suddivisioni. Una di queste suddivisioni 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 suddivisioni 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 auzugeben, 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 Verfassername, (*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 Verfassername 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.

bile qualche nuova suddivisione, si deve annotare sulla scheda la nuova suddivisione proposta affinchè 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 tutte, 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 riferenze.

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 Verfassername 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 blos 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 Kentniss 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 nexima rgo 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 nexima rgo 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 rédatta 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, tribù) e 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.

(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.

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.

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.

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.

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 Taxonomie- 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 s'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 sistematiche, ma contribuirebbe molto ad accelerare la publicazione 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.

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.

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.

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.

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 speciellen 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; Specielle 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. Specielle Drüsen; Excretions-Organe; Reproduktive Organe; Specielle äussere Charactere; Farbe. Rudimentäre oder unentwickelte Organe und Organe ungewisser Natur.

0000-0231. Zoologie générale.

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."

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 spéciale.)
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 tégumentaires); 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, lymphe, 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.

0000-0231. Zoologia comprensiva.

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."

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.)

Principî di Nomenclatura.
Tecnica. Metodi di ricerca, istrumenti 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 e 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 respiriazione; Sistema acquifero vascolare, Sangue, Linfa, Liquido celomatico, Chilo; Glandule 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; Postembryonic Ontogeny; Alternation of Generations; Pædogenesis; Dissogony; Cycles of Generations; Changes during Life; Regeneration; Hermaphroditism.

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

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; Ovipcis-

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; Pædogenesis; Dissogonie; Generations-Cyklen; Veränderungen während des Lebens; Regeneration; Hermaphroditismus.

Zell-Struktur und -Processe *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; Ovogenèse et œuf; Spermatogenèse et Spermatozoïdes; Phénomènes de fécondation; Parthénogenèse; Embryologie, organogénie et histogénie; Métamorphose et formes larvaires; Ontogénie postembryonnaire; Générations alternantes; Pædogenèse; Dissogonie; Cycles de générations; Changements pendant la vie; Régénération; Hermaphrodisme.

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 asessuale; Oogenesi e Uovo; Spermatogenesi e Spermatozoide; Fenomeni di Fecondazione; Partenogenesi; Embriologia, organogenia ed istogenia; Metamorfosi e forme larvali; Ontogenia postembrionale; 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 e 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.

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-Processe (einschl. Schutzfärbung, Mimicry und schützende Aehnlichkeiten) ; Schmuck und Farbe ; Züchtung und Akklimatisation.

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.)

VARIATION UND AETIOLOGIE. [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.)

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.

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 Entwickelung ; auf Lebensgewohnheiten. Phylogenie.

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

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

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

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

0227 GEOGRAPHICAL ZOOLOGY.

GEOGRAPHISCHE ZOOLOGIE.

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

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

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

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 1610); Parasitisme ; Procédés de défense ; Ressemblance (y compris la coloration protectrice, le mimétisme et la ressemblance protectrice) ; Ornements et couleur ; Elevage et acclimatation.

ovipositione ; 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 1610); parasitismo ; processi difensivi (compresovi la colorazione protettiva, il mimetismo e la rassomiglianza protettiva) ; ornamenti e colore ; Allevamento ed acclimatazione.

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.)

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 e (Q) Fisiologia).

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.

Generalità ; Variazione sostantivamente considerata ; dimensioni, proporzioni, forma, colore, etc. Variazioni meristiche ; numeriche (meristiche vere e proprie) ; omeotiche ; 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 stazionale.

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

Eredità. Innesti. Incrociamenti e ibridismi. Consanguineità. Telegonia. Evoluzione. (*Vedi anche* 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)

Zoologia geografica.

Distribuzione geografica. [Lavori relativi ai principî 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 Specielle Zoologie.

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

The principal divisions are:—
Mycetozoa; Rhizopoda (Radiolaria, Heliozoa, Foraminifera, Amœbaea, Proteomyxa); Sporozoa (Gregarinida, Coccidiidea, Haemosporidia, Myxosporidia, Sarcosporidia); Mastigophora (Flagellata, Dinoflagellata); Infusoria (Acinetaria, Ciliata).

Protozoa. (*Siehe auch* R 1200.)

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

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

The principal divisions are:—
Calcarea; Hexactinellida; Demospongiae (Carnosa, Tetractinellida, Monaxonida, Keratosa, Myxospongida).

Porifera (oder **Spongida**).

Hauptabteilungen sind:—
Calcarea; Hexactinellida; Demospongiae (Carnosa, Tetractinellida, Monaxonida, Keratosa, Myxospongida).

0800-0831 **Coelenterata** (or **Cnidaria**).

The principal divisions are:—
Graptolites; Hydromedusae; Scyphomedusae; Monticuliporidae; Stromatoporidae; Alcyonaria; Zoantharia; Ctenophora.

Cœlenterata (oder **Cnidaria**).

Hauptabteilungen sind:—
Graptolites; Hydromedusæ; Scyphomedusæ; Monticuliporidæ; Stromatoporidæ; Alcyonaria; Zoantharia; Ctenophora.

1000-1031 **Echinodermata.**

The principal divisions are:—
Cystoidea; Crinoidea; Blastoidea; Asteroidea; Ophiuroidea; Echinoidea; Holothurioidea.

Echinodermata.

Hauptabteilungen sind:—
Cystoidea; Crinoidea; Blastoidea; Asteroidea; Ophiuroidea; Echinoidea; Holothurioidea.

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.

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

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

0600-0631 **Porifères** (ou **Spongiaires**).

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

0800-0831 **Cœlentérés** (ou **Cnidaria**).

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

1000-1031 **Échinodermes.**

Voici les divisions principales :— Cystoïdes ; Crinoïdes ; Blastoïdes ; Astéroïdes ; Ophiuroïdes ; Echinoïdes ; Holothurioïdes.

0400-6031. Zoologia Speciale.

Protozoa. (*Vedi anche* R 1200.)

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

Porifera (vel **Spongida**).

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

Cœlenterata (vel **Cnidaria**).

Le divisioni principali sono :— Graptolites ; Hydromedusae ; Scyphomedusae ; Monticuliporidae ; Stromatoporidae ; Alcyonaria ; Zoantharia ; Ctenophora.

Echinodermata.

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

1200-1231 **Platyhelminthes. Mesozoa and Trichoplax.**

The principal divisions are :— Platyhelminthes (Turbellaria, Trematoda, Cestoda, Nemertinea); Mesozoa (Dicyemidae, Orthonectidae); *Trichoplax*.

Platyhelminthes. Mesozoa und Trichoplax.

Hauptabteilungen sind :— Platyhelminthes (Turbellaria, Trematoda, Cestoda, Nemertinea); Mesozoa (Dicyemidæ, Orthonectidæ); *Trichoplax*.

1400-1431 **Nemathelminthes.**

The principal divisions are :— Nematoda; Nematomorpha (or Gordiidae); Acanthocephala.

Nemathelminthes.

Hauptabteilungen sind :— Nematoda; Nematomorpha (oder Gordiidæ); Acanthocephala.

1600-1631 **Chaetognatha. Rotifera. Gastrotricha. Kinorhyncha (or Echinodera.)**

Chætognatha. Rotifera. Gastrotricha. Kinorhyncha (oder Echinodera).

1800-1831 **Archiannelida. Polychaeta. Myzostomaria. Oligochaeta. Gephyrea. Phoronis. Hirudinea.**

Archiannelida. Polychæta. Myzostomaria. Oligochæta. Gephyrea Phoronis. Hirudinea.

2000-2031 **Brachiopoda. Bryozoa (or Polyzoa).**

The principal divisions are :— Brachiopoda. Bryozoa : Entoprocta; Ectoprocta (Gymnolaema : Cyclostomata, Trepostomata, Cryptostomata, Cheilostomata, Ctenostomata; Phylactolaema).

Brachiopoda. Bryozoa (oder Polyzoa).

Hauptabteilungen sind :— Brachiopoda. Bryozoa : Endoprocta; 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, Nudibranchiata); Pteropoda; Pulmonata (Bassomatophora, Stylommatophora). Families of Prosobranchiata and Pulmonata should be mentioned. *See* Cambridge Natural History.

Cephalopoda includes Nautiloidea, Ammonoidea, Dibranchiata.

Mollusca.

Hauptabteilungen sind :— Lamellibranchiata (oder Pelecypoda) (Ordnung angeben); Scaphopoda; Amphineura.

Gastropoda umfasst Prosobranchiata (Rhipidoglossa, Ptenoglossa, Taenioglossa, Rachiglossa, Toxoglossa; Heteropoda; Opisthobranchiata (Tectibranchiata, Nudibranchiata); Pteropoda; Pulmonata (Bassomatophora, Stylommatophora). Familien der Prosobranchiata und Pulmonata angeben. *Siehe* Cambridge Natural History.

Cephalopoda umfasst Nautiloidea, Ammonoidea, Dibranchiata.

2400-2431 **Arthropoda.**

2431 will not include a systematic arrangement of genera and species.

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 (Dicyemidæ, Orthonectidæ); *Trichoplax*.

Platyhelminthes. Mesozoa et Trichoplax.

Le divisioni principali sono :— Platyhelminthes (Turbellaria, Trematoda, Cestoda, Nemertinea); Mesozoa (Dicyemidæ, Orthonectidæ); *Trichoplax*.

1400-1431 **Némathelminthes.**

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

Nemathelminthes.

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

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

Chætognatha. Rotifera. Gastrotricha. Kinorhyncha (vel Echinodera).

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

Archiannelida. Polychæta. Myzostomaria. Oligochæta. Gephyrea. Phoronis. Hirudinea.

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

Voici les divisions principales :— Brachiopodes.

Bryozoaires : Entoproctes; Ectoproctes (Gymnolèmes : Cyclostomes, Trepostomes, Cryptostomes, Cheilostomes, Cténostomes; Phylactolèmes).

Brachiopoda. Bryozoa (vel Polyzoa).

Le divisioni principali sono :— Brachiopoda.

Bryozoa : Entoprocta; Ectoprocta (Gymnolaema : Cyclostomata, Trepostomata, Cryptostomata, Cheilostomata, Ctenostomata; Phylactolaema).

2200-2231 **Mollusques.**

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

Les Gastropodes comprennent les Prosobranches (Rhipidoglosses, Pténoglosses, Taenioglosses, Rachiglosses, Toxoglosses); Hétéropodes; Opisthobranches (Tectibranches, Nudibranches); Ptéropodes; Pulmonés (Basomatophores, Stylommatophores). Indiquer les familles des Prosobranches et des Pulmonés. *Voy.* la Cambridge Natural History.

Les Céphalopodes comprennent les Nautiles, Ammonites, Dibranches.

Mollusca.

Le divisioni principali sono :— Lamellibranchiata (vel Pelecypoda) (indicare l'ordine); Scaphopoda; Amphineura.

Gastropoda includono Prosobranchiata (Rhipidoglossa, Ptenoglossa, Taenioglossa, Rachiglossa, Toxoglossa); Heteropoda; Opisthobranchiata (Tectibranchiata, Nudibranchiata); Pteropoda; Pulmonata (Bassomatophora, Stylommatophora). Indicare le famiglie dei Prosobranchiata e Pulmonata. *Vedi* Cambridge Natural History.

Cephalopoda includono Nautiloidea, Ammonoidea, Dibranchiata.

2400-2431 **Arthropodes.**

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

Arthropoda.

2431 non deve includere la disposizione 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, Aranecida, Solifugae, Chernetida (or Pseudoscorpiones), Phalangida (or Opiliones), Acarida (or Acari).

Arachnida.

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

3200–3231 **Prototracheata (or Onychophora).**

Prototracheata includes only *Peripatus* and its divisions.

Prototracheata (oder Onychophora).

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, Phasmidae, Gryllidae, Locustidae, Acridiidae).

Orthoptera. Neuroptera. Trichoptera.

Hauptabteilungen sind :—
Orthoptera (Forficulidæ oder Dermaptera, Hemimeridæ, Blattidæ, Mantidæ, Phasmidæ, Gryllidæ, Locustidæ, Acridiidæ).

2600-2631 **Crustacés.**

Entomostracés (= Cirripèdes, Ostracodes, Copépodes, Phyllopodes).
Leptostracés.
Arthrostracés (ou Edriophthalmes) (= Amphipodes, Isopodes, Anisopodes).
[Malacostracés (= Thoracostracés + Arthrostracés).]
Les Thoracostracés (ou Podophthalmaires), comprennent les Décapodes, Schizopodes, Stomatopodes, Cumacés).

Crustacea.

Entomostraca (= Cirripedia, Ostracoda, Copepoda, Phyllopoda).
Leptostraca.
Arthrostraca (vel Edriophthalma) (= Amphipoda, Isopoda, Anisopoda).
[Malacostraca (= Thoracostraca + Arthrostraca).]
Thoracostraca (vel Podophthalma) includono Decapoda, Schizopoda, Stomatopoda, Cumacea.

2800-2831 **Trilobites. Xiphosures. Eurypterides. Pantopodes. Tardigrades. Linguatulides.**

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

3000-3031 **Arachnides.**

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

Arachnida.

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

3200-3231 **Prototrachéates (ou Onychophores).**

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

Prototracheata (vel Onychophora).

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

3400-3431 **Myriapodes.**

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

Myriopoda.

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

3500-3531 **Insectes.**

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

Insecta.

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

3600-3631 **Aptères (ou Aptérygogéniens). Anoploures. Mallophages. Thisanoptères (ou Physopodes). Siphonaptères (ou Aphaniptères).**

Les Aptères proprement dits comprennent les Thysanoures et les Collemboles.

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

Gli Aptera propriamente detti consistono nei Thysanura e Collembola.

3800-3831 **Orthoptères. Névroptères. Trichoptères.**

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

Orthoptera. Neuroptera. Trichoptera.

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

Neuroptera (Planipennia, Embiidae, Termitidae, Psocidae, Perlidae, Ephemeridae, 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, Embiidæ, Termitidæ, Psocidæ, Perlidæ, Ephemeridæ, 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 (Aphidæ, Psyllidæ, Aleurodidæ, Coccidæ) 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 = Trigonalidae, Proctotrupidae, Pelecinidae, Chalcididae, Ichneumonidae, Braconidae, Megalyridae, Evaniidae, Stephanidae, Cynipidae. Sessiliventres (or Chalastogastra) = Cephidae, Siricidae, Oryssidae, Tenthredinidae

Hymenoptera.

Hauptabteilungen sind :—

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

Névroptères (Planipennes, Embiides, Termitides, Psocides, Perlides, 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, Embiidae, 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 riferisconsi 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 Hétéroptères 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 (esclusi 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) = Antophiles (Apides, Andrénides), Vespides (Diploptères) Sphégides s.l. (Fouisseurs) Formicides (Hétérogynes). Tubulifères = Chrysidides. Parasites = Trigonalides, Proctotrupides, Pélécinides, Chalcidides, Ichneumonides, Braconides, Mégalyrides, Evaniides, Stéphanides, Cynipides. Sessiliventres (ou Chalastogastres) = Céphides, Siricides, Oryssides, Tenthrédinides.

Hymenoptera.

Le divisioni principali sono :— Aculeata = Anthophila (Apidæ, Andrenidæ), Vespidæ (Diploptera), Sphegidæ s.l. (Fossoria). Formicidæ (Heterogyna. Tubulifera = Chrysididæ. Parasitica = Trigonalidæ, Proctotrupidæ, Pelecinidæ, Chalcididæ, Ichneumonidæ, Braconidæ, Megalyridæ, Evaniidæ, Stephanidæ, Cynipidæ. Sessiliventres (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.

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.

5000–5031 **Prochordata, viz., Leptocardii, Enteropneusta, Tunicata.**

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

5200–5231 **Vertebrata.**

No systematic enumeration is to be placed under 5231.

Vertebrata.

5231 wird keine systematische Aufzählung enthalten.

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.

Pisces [mit Ausschluss 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.

5600–5631 **Amphibia and Reptilia.**

The principal divisions are :—
Batrachia or Amphibia (Stegocephala or Labyrinthodontia, Apoda, Caudata or Urodela, Ecaudata or Anura).
Reptilia (Anomodontia, Rhynchocephalia, Plesiosauria, Ichthyosauria, Cotylosauria, Pareiasauria, Diaptosauria, Protorosauria, Rhynchosauria, Procolophonia, Proganosauria, Choristodera, Chelonia, Crocodilia, Dinosauria, Ornithosauria or Pterosauria, Ophidia, Pythonomorpha, Rhiptoglossa, Lacertilia).

Amphibia und Reptilia.

Hauptabteilungen sind :—
Batrachia oder Amphibia (Stegocephala oder Labyrinthodontia, Apoda, Caudata oder Urodela, Ecaudata oder Anura).
Reptilia (Anomodontia, Rhynchocephalia, Plesiosauria, Ichthyosauria, Cotylosauria, Pareiasauria, Diaptosauria, Protorosauria, Rhynchosauria, Procolophonia, Proganosauria, Choristodera, Chelonia, Crocodilia, Dinosauria, Ornithosauria oder Pterosauria, Ophidia, Pythonomorpha, Rhiptoglossa, Lacterilia).

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.

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.

5000–5031 **Prochordés, c'est à dire, Leptocardiens, Entéropneustes, Tuniciers.**

Prochordata, cioè Leptocardii, Enteropneusta, Tunicata.

5200–5231 **Vertébrés.**

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

Vertebrata.

Non deve porsi alcuna enumerazione sistematica sotto 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, Holocéphales, Arthrodires, Dipnoïques, Téléostomes (ou Téléostéens et Ganoïdes, à l'exception des Arthrodires et des Ostracodermes).

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

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

Le divisioni principali sono :—

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

Indicare la famiglia. *Vedi* Cambridge Natural History.

5600–5631 **Batraciens et Reptiles.**

Voici les divisions principales :—

Batraciens ou Amphibies (Stégocéphales ou Labyrinthodontes, Apodes, Caudés ou Urodèles, Ecaudés ou Anoures).

Reptiles (Anomodontes, Rhynchocéphales, Plésiosauriens, Ichthyosauriens, Cotylosauriens, Paréiasauriens, Diaptosauriens, Protorosauriens, Rhynchosauriens, Procolophoniens, Proganosauriens, Choristodères, Chéloniens, Crocodiliens, Dinosauriens, Ornithosauriens ou Ptérosauriens, Ophidiens, Pythonomorphes, Rhiptoglosses, Lacertiliens)

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, Pareiasauria, Diaptosauria, Protorosauria, Rhynchosauria, Procolophonia, Proganosauria, Choristodera, Chelonia, Crocodilia, Dinosauria, Ornithosauria vel Pterosauria, Ophidia, Pythonomorpha, Rhiptoglossa, Lacertilia).

5800-5831 **Aves.**

The principal divisions are :—
Accipitres, Aepyornithes, Alcae, Alectorides (including *Cariama*), Anisodactylae (including Podargidae and *Steatornis*), Anseres (including Phoenicopteri and Palamediidae), Apteryges, Casuarii, Coccyges, Columbae, Coraciae, Crypturi, Cypseli, Dinornithes, Fulicariae, Gallinae, Gaviae, Herodiones, Heterodactylae, Impennes, Limicolae, Odontolcae, Odontormae, Opisthocomi, Passeres (mention families), Pici, Psittaci, Pterocletes, Pygopodes, Rheae, Saururae, Steganopodes, Stereornithes, Striges, Struthiones, Tubinares, Zygodactylae.

Aves.

Hauptabteilungen sind :—
Accipitres, Æpyornithes, Alcæ, Alectorides (einschl. *Cariama*), Anisodactylæ (einschl. Podargidæ und *Steatornis*), Anseres (einschl Phœnicopteri und Palamediidæ), Apteryges, Casuarii, Coccyges, Columbæ, Coraciæ, Crypturi, Cypseli, Dinornithes, Fulicariæ, Gallinæ, Gaviæ, Herodiones, Heterodactylæ, Impennes, Limicolæ, Odontolcæ, 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, Tillodontia, Ungulata (Artiodactyla, Perissodactyla, Subungulata).

Mammalia.

Hauptabteilungen sind :—
Carnivora, Cetacea, Chiroptera, Edentata, Insectivora, Marsupialia, Monotremata, Multituberculata, Primates, Rodentia, Sirenia, Tillodontia, Ungulata (Artiodactyla, Perissodactyla, Subungulata).

5803-5831 **Oiseaux.**

Voici les divisions principales :—
Accipitres, Æpyornithéens, Alciens, Alectoriens (y compris les *Cariama*), Anisodactyles (y compris les Podargides et les *Steatornis*), Ansériens (y compris les Phœnicoptères et les Palamédiidés), Apterygiens, Casuariens, Coccygiens, Colombins, Coraciens, Crypturiens, Cypséliens, Dinornithiens, Fulicariens, Gallinacés, Gaviens, Hérodiens, Hétérodactyles, Impennes, Limicoliens, Odontolciens, Odontormiens, Opisthocomes, Passereaux (indiquer les familles), Pics, Perroquets, Ptérocliens, Pygopodes, Rhéens, Saururiens, Stéganopodes, Stéréonithiens, Strigiens, Struthioniens, Tubinariens, Zygodactyles.

Aves.

Le divisioni principali sono :—
Accipitres, Aepyornithes, Alcæ, Alectorides (incl. *Cariama*), Anisodactylae (incl. Podargidæ et *Steatornis*), Anseres (incl. Phœnicopteri et Palamediidæ), Apteryges, Casuarii, Coccyges, Columbæ, Coraciæ, Crypturi, Cypseli, Dinornithes, Fulicariæ, Gallinæ, Gaviæ, Herodiones, Heterodactylæ, Impennes, Limicolæ, Odontolcæ, Odontormæ, Opisthocomi, Passeres (indicare le famiglie), Pici, Psittaci, Pterocletes, Pygopodes, Rheæ, Saururæ, Steganopodes, Stereornithes, Striges, Struthiones, Tubinares, Zygodactylæ.

6000-6031 **Mammifères.**

Voici les divisions principales :—
Carnivores, Cétacés, Chiroptères, Édentés, Insectivores, Marsupiaux, Monotrèmes ; Multituberculés, Primates, Rongeurs, Siréniens, Tillodontes, Ongulés [Ungulata] (Artiodactyles, Périssodactyles, Subongulés).

Mammalia.

Le divisioni principali sono :—
Carnivora, Cetacea, Chiroptera, Edentata, Insectivora, Marsupialia, Monotremata, Multituberculata, Primates, Rodentia, Sirenia, Tillodontia, Ungulata (Artiodactyla, Perissodactyla, Subungulata).

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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. A few memoirs included in the special records are repeated in this division.

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II. PROTOZOA

ARRANGED BY

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†*Bifarina adelae* **sp. n.** Eocän, Norddalmatien; LIEBUS SitzBer. Ak. Wiss. Wien Abth. I **120** p. 924 pl. i fig. 15.—*B. hungarica* **sp. n.** Trias, Bakony; VADÁSZ Res. wiss. Erforschg. Balatonsees **1** i Anhang Palaeontol. **1** p. 16 pl. i figs. 9 & 10.

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†*B. haddoniana* **sp. n.** Estuarine Clay Limavady (also Recent); WRIGHT Belfast Rep. Nat. F. Cl. Ser. II **6** iv (Appendix No. 2) p. 14 pl. ii fig. 22.

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†*B. punctata* d'Orb. var. n. *semistriata* Eocän, Norddalmatien; LIEBUS SitzBer. Ak. Wiss. Wien Abth I **120** p. 922 pl. i fig. 11.

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†*Cristellaria tricarinella* Rss. var. n. *striata* Eocän, Norddalmatien; LIEBUS SitzBer. Ak. Wiss. Wien Abth. I **120** p. 914 pl. i figs. 4 & 5.

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†*Ehrenbergina fovcolata* **sp. n.** Tertiary, Neu-Mecklenburg; SCHUBERT Abh. geol. Reichsanst. **20** H. 4 p. 61 pl. vi fig. 1.

†*Ellipsoidella* H.-A. & E., syn. *Ellipsopleurostomella* Silv.; HERON-ALLEN & EARLAND J. R. Microsc. Soc. **1911** p. 317.

†*Flintia* **nom. n.** ex aff. *Spiroculina* (*S. robusta* Brady), Tertiary, Sainabas; SCHUBERT Abh. geol. Reichsanst. **20** H. 4 p. 124.

Frondicularia spp. *inversa*, *angusta* and cf. *strigillata*, variation-forms; DETTMER N. Jahrb. Min. **1911** 1 pp. 149–159 pl. xii.

†*F. acuta* **sp. n.** Trias, Bakony; VADÁSZ Res. wissensch. Erforschg. Balatonsees 1 i Anhang Palaeont. 1 p. 24 pl. i fig. 22.

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†*Lepidocyclina gemmellaroi* **sp. n.** Tertiary, Bagheria; CHECCHIA-RISPOLI Giorn. sc. nat. econ. **28** p. 160 pl. vi figs. 39–53.—*L. inermis* p. 72 pl. D. fig. 5, *smithi* p. 73 fig. 8, **spp. n.**, Tertiary, Philippine Is.; DOUVILLÉ Philippine J. Sci. D. **6**.—*L. sclerotisans* Suralil-Hiratam p. 117 pl. ii figs. 2 & 3 & text-fig. 16, *epigona* Kapsu p. 118 pl. v fig. 2, **spp. n.**, Tertiary; SCHUBERT Abh. geol. Reichsanst. **20** H. 4.—*Lepidocyclinae* and *Orbitoideae*, remarks on systematic and affinities pp. 103–139, *L. dilatata* pp. 139–156 pl. i figs. 2–10, *tournoueri* pp. 157–163 figs. 11 & 12, descriptive notes; SILVESTRI Mem. Acc. Nuovi Lincei **28**.

†*Lepidosemicyclina* **subgen. n.** (*Orbitoides*), characterized; RUTTEN Amsterdam Proc. Sci. Akad. Wet. **13** p. 1135.

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†*Lingulina carinata* var. n. *biloculi*, Estuarine Clays, Magheramorne and Limavady; WRIGHT Belfast Rep. Nat. F. Cl. Ser. II **6** iv (Appendix No. 2) p. 13 pl. ii fig. 10.

†*Marginulina fissicostata* (Gümb.), Pliocene, Farnesina, description; SILVESTRI Atti Acc. Nuovi Lincei **64** pp. 177–183 1 text-fig.

Miliolina compressa sp. n., *M. seminulum* var. n. *angusto-oralis*, *M. peregrina* var. n. *striata*, *M. milletti* nom. nov. varr. nn. *carinata*, *striata*, *M. terquemiana* nom. nov. (in all cases names only—no diagnoses whatever!); WIESNER Zool. Anz. **38** pp. 506 & 507.

†*Miogypsina burdigalensis* Gümb. var. n. *suraldensis*, Tertiary; SCHUBERT Abh. geol. Reichsanst. **20** H. 4 p. 120 pl. iii fig. 2.—*M. irregularis* var. n. *oricatalis*, Tertiary, Philippine Is.; DOUVILLÉ Philippine J. Sci. D. **6** p. 74 pl. D figs. 9 10.

†*Nodosinella clarkei* sp. n. Carbonic, Magdalen Is.; BEEDE N. Y. St. Mus. Bull. No. **149** p. 175 3 figs.

†*Nonionina quadriloculata* sp. n., Selsey Bill; HERON-ALLEN & EARLAND J. R. Microsc. Soc. **1911** p. 342 pl. xi figs. 12–15.

Nubeculariella gen. n. (resembling *Nubecularia*) *birulai* sp. n., Siberian Polar Sea; AWERINZEW Mem. Ac. Sci. St. Peterburg Ser. 8 **29** 3 p. 8 fig. 3.

†*Nummalites bayhariensis* sp. n. p. 131 pl. iv figs. 9–11, *N. gentilei* Prev. var. n. *regularis* p. 132 fig. 41, *N. tchihatcheffi* d'Arch. var. n. *apiculata* p. 136 fig. 39, Eocene, Bagheria; CHECCHIA-RISPOLI Giorn. sc. nat. econ. **28**.—*N.* (*Brugueria*) *uhligi* p. 177 pl. vii fig. 4, *N.* (*Paronaea*) *pillai* p. 180 figs. 2 & 3, *tondii* p. 181 fig. 10, spp. n., Eocene, Bagheria; CHECCHIA-RISPOLI T.c.—*N. subniasi* sp. n. Tertiary, Philippine Is.; DOUVILLÉ Philippine J. Sci. D. **6** p. 58 pl. A fig. 1.

†*Nummulitidae*, Eocene, Bagheria (Palermo), characterized; CHECCHIA-RISPOLI Giorn. sc. nat. Palermo **28** pp. 121–200 pls. i–vii.

†*Operculina costata* var. n. *tuberculata*, Tertiary, Philippine Is.; DOUVILLÉ Philippine J. Sci. D. **6** p. 56 pl. A fig. 4.

†*Orbitoides* (*Lepidocyclina*) *acuta* p. 1130 text-fig. 2, *flexuosa* p. 1132 fig. 3, *polygona* p. 1133 *glabra* p. 1137, fig. 4, spp. n., *sumatrensis* Brady var. n. *minor* p. 1136, *acodispansa* Jones & Chapman var. n. *minor* p. 1136, *O.* (*Lepidosemicyclina*) *thecideaeformis* p. 1135, *polymorpha* p. 1137, spp. n., Post-Eocene, Borneo; RUTTEN Amsterdam Proc. Sci. Akad. Wet. **13**.

†*Orthophragmina triangularis* sp. n. Eocene, Bagheria; CHECCHIA-RISPOLI Giorn. sc. nat. econ. **28** p. 168 pl. v figs. 13–41.

Pelosina (?) *arctica* sp. n. Siberian Polar Sea; AWERINZEW Mem. Ac. Sci. St. Peterburg Ser. 8 **29** 3 p. 7 figs. 7 & 8.

Pleurostomella spinosa sp. n. North Pacific; CUSHMAN Bull. U. S. Nation. Mus. **71** p. 51 figs. 83–84.

†*P. sapperi* sp. n. Tertiary, Fetsoa Neu Mecklenburg; SCHUBERT Abh. Geol. Reichsanst. **20** Hft. 4 p. 56 text-fig. 3.

†*Pleurostomellina* nom. n. for *Pleurostomella subnodosa* Reuss and other forms; SCHUBERT T.c. p. 59.

Polymorphina dubia sp. n., Siberian Polar Sea; AWERINZEW Mem. Ac. Sci. St. Peterburg Ser. 8 **29** 3 p. 19 fig. 4.

Polytrema miniaceum, account of minute shell-structure, distribution and distinction from allied genera (*Homotrema*, *Sporadotrema*); HICKSON Trans. Linn. Soc. Zool. **14** pp. 444 450–460 pls. xxx–xxxii *pro parte*.

Pulvinulina haliotidea sp. n., North Sea; HERON-ALLEN & EARLAND J. R. Microsc. Soc. **1911** p. 338 pl. xi figs. 6–11.

†*Sagrina raphanus* varr. n. *semistriata* Sainabas p. 89 text-fig. 10, *nodosaroides* Insel Maria, Tertiary p. 88 figs. 8 & 9; SCHUBERT Abh. geol. Reichsanst. **20** H. 4.

Sporadotrema gen. n. for *Polytrema cylindricum* Carter; HICKSON Trans. Linn. Soc. Zool. **14** p. 447.

Spiroloculina planulata var. n. *krumbachi*, Adriatic (Rovigno); WIESNER Zool. Anz. **37** p. 480 fig.

†*S. terquemiana* **nom. nov.** for *S. ornata* Terq.; HERON-ALLEN & EARLAND J. R. Microsc. Soc. **1911** p. 302.

Spiroplecta bulbosa **sp. n.**, North Pacific; CUSHMAN Bull. U. S. Nation. Mus. **71** p. 5 fig. 1.

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Textularioides **gen. n.** (*Textulariinae*) *inflata* **sp. n.**, North Pacific; CUSHMAN T.c. p. 26 fig. 45.

Tritaxilina **gen. n.** (*Textulariinae*) genotype *Clavulina caperata* Brady, North Pacific; CUSHMAN T.c. p. 71 figs. 112–114.

Vaginulina strigillata Reuss regarded as a form of *Frondicularia inversa*; DETTMER N. Jahrb. Min. **1911** I p. 152.

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(c) Heliozoa.

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Aulactinium burckhardti **sp. n.** Ragusa (Adriatic); STIASNY T.c. p. 498 1 text-fig.

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(b) Coccidiidea.

A Coccidian in the intestine of the goat, phases in life-cycle described; STEVENSON Rep. Wellcome Res. Lab. **4** Vol. A (Medical) pp. 355–359 pls. xix & xx.

Adelea ovata A. Schn., cytological points, phases of life-cycle distinguished from those of *Coccidium lacazei*; DEBAISIEUX La Cellule **27** pp. 259–266 pl. i.

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(c) Haemosporidia.

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Halteridium noctuae, living observations and notes on infections; absence of any trypaniform phase; Minchin & Woodcock Q. J. Microsc. Sci. **57** pp. 144–166.—*H. noctuae* and *Leucocytozoon ziemanni*, further remarks and observations bearing on their connection with Trypanosomes; Schaudinn (*the late*) & others in "Fritz Schaudinn's Arbeiten" 1911 pp. 575–586 pls. xxviii & xxix.—*H. syrnii* **sp. n.** from *Syrnium aluco*, ookinete-formation in mosquitoes; Mayer Arch. Protistenk. **21** pp. 232–254 pls. xxii & xxiii.—*H.* spp., from various birds, Tonkin, notes on form and size; Mathis & Léger "Recherches de parasitologie" etc. 1911 pp. 265–272 pl. iii.—*H.* spp., cytoplasmic fusion of growing gametocytes; Woodcock Zool. Anz. **38** pp. 465–471 22 text-figs.—*H.* sp., from *Dacelogigas*, Australia, note on morphology; Welsh & Priestley Journ. Path. Bact. **15** pp. 369 & 370 pl. xliii fig. 2.

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CHIN & WOODCOCK Q. J. Microsc. Sci. **57** pp. 144–166.—*L. ziemanni* [and probably other spp.], notes on; CARDAMATIS Centralbl. Bakt. Abt. I **60** Orig. pp. 241–245 2 pls.—*L.* sp. [*ziemanni?*] from *Syrnium aluco*, ookinete-formation in mosquitoes; MAYER Arch. Protistenkunde **21** pp. 232–254 pls. xxii & xxiii.—*L.* spp. of birds (including *L. toddi*), from French Congo, notes; AUBERT & HECKENROTH C. R. soc. biol. **70** pp. 958 & 959.

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Gurleya legeri Hesse, from caddis-fly larvae, notes; MACKINNON Parasitol. **4** p. 34 pl. iii figs. 13 & 14.—*G. richardi* **sp. n.**, occurrence and note on spores; CÉPÈDE Ann. biol. lacustre **5** pp. 29–32 text-figs. 4–13.

Hennegnya, key of known species and their occurrence, p. 166, *gigantea* **sp. n.** in *Lucioperca sandra*, described, pp. 146–153 pls. viii & ix; NEMECZEK Arch. Protistenk. **22.**

Lentospora encephalica **sp. n.** from carp, described; MULSOW Allg. Fischereiztg. **36** pp. 483–485.

Myxidium sp., details of the spore-development; AWERINZEW Arch. Protistenk. **23** pp. 199–204 7 text-figs.

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Nosema branchiale **sp. n.** in *Gadus aeglefinus*, diagnosed; NEMECZEK T.c. pp. 163 & 164 text-fig. 19.—*N. bryozoides* in Hodenzellen von *Plumatella repens*. Beschreibung; BRAEM St. Peterburg Trav. Soc. nat. Sect. zool. **42** 2 1-ère partie pp. 19–29 text-figs. 11–17.—*N.* (*Glugea*) *lophii*, full account of cell-parasitism, distinctions from *Glugea*, relations to host's nervous tissue and phases in life-cycle; WEISSENBERG SitzBer. Ges. Natf. Freunde **1911** pp. 149–157 and Arch. Mikr. Anat. **78** pp. 383–421 pls. xviii & xix.

Octosporea **gen. n.** [regarded as a Schizogregarine, but really a Microsporidian and most probably syn. *Thelohania*] *muscae-domesticae*, occurrence and notes on sporogony; Flu Centralbl. Bakt. Abth. I **57** Orig. pp. 530–533 1 pl. (*p. p.*).—*O. muscae-domesticae* Flu, a true Microsporidian, occurrence and life-cycle. *O. monospora* **sp. n.**, diagnosis and comparison; Chatton & Krempf Bul. soc. zool. **36** pp. 172–179 2 text-figs.

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Thelohania vide also *Octosporea*.

(e) Sarcosporidia.

Sarcocystis rileyi (Stiles), minute structure of spores described; Crawley Proc. Acad. Nat. Sci. Philadelphia **63** pp. 457–468 pl. xxxvi.—*S. tenella*, division of spore into sporozoites in old cysts; Teichmann Arch. Protistenkunde **22** pp. 239–247 pl. xv.—*S. tenella*, notes on cyst-"envelope," minute structure of the spore; Alexeieff C. R. soc. biol. **71** pp. 397–399.

(f) Haplosporidia.

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"*Cytorrhyctes*" *luis* of Siegel, formerly regarded as a Protozoan organism now considered to be Bacterial, a *Coccus*-form; Siegel Centralbl. Bakt. Abth. I **57** Orig. pp. 68–81 1 pl.—*C. vaccinae* (Guarnieri's bodies) also regarded as Coccal in nature; Siegel Centralbl. Bakt. Abth. I **59** Orig. pp. 406–415 2 pls.—*Cytoryctes variolae* of small-pox, notes on minute "ultimate granules"; Casagrandi Centralbl. Bakt. Abt. I **57** Orig. pp. 402–415 4 text-figs.—*C. variolae* methods pp. 140–143, life-cycle pp. 143–157 pls. xvi–xix figs. 1 & 2, biology pp. 158–167; Calkins J. Med. Res. **11** (N. Ser. **6**).

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Notes on various intestinal Flagellates (of Amphibia); ALEXEIEFF Arch. Zool. exp. (sér. 5) **6** pp. 491–504 text-figs. 1–8.—Notes on certain Flagellates (*Bodo* spp., *Cercomonas* spp. *Chilomonas*) appearing commonly in infusions; ALEXEIEFF T.c. pp. 504–525 text-figs. 9–15.

Flagellates of house-flies described: "*Herpetomonas*" *muscae-domesticae* and trypanosome-forms, probably both connected with a *Leptomonas*; WENYON Parasitol. **4** pp. 332–338 text-figs. 9–36.

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Bodo asiaticus Cast. & Chalm., should be placed in the genus *Prowazekia*, on account of its binucleate character; WHITMORE Arch. Protistenkunde **22** pp. 370–378 pl. xviii.—*B. caudatus* (Duj.) Stein, morphologie et division nucléaire; ALEXEIEFF C. R. soc. biol. **70** pp. 130–132 10 text-figs.—*B. lacertae* (Grassi) placed back again in the genus *Heteromita*, on the ground that this form differs essentially from other *Bodos*; ALEXEIEFF Arch. Zool. exp. (Sér. 5) **6** p. 500 text-figs. 6 & 7.

Cercomonadina Bütschli emend., to include *Cercomonas*, *Bodo* (*Heteromita*), which is removed from the *Bodonidae*, and *Rhizomastix*; ALEXEIEFF C. R. soc. biol. **71** pp. 506–508 6 text-figs.

Cercoplasma **gen. n.** (*Leptomonadinae*) points of distinction from *Leptomonas*, *C. caullery* **sp. n.**, occurrence and different forms; ROUBAUD C. R. soc. biol. **71** pp. 502–505 26 text-figs.

Chilomastix gallinarum **sp. n.**, observations on; MARTIN & ROBERTSON Q. J. Microsc. Sci. **57** pp. 62–65 figs. 1–10.—[*Chilomastix*, *vide* Addendum, end of Systematic.]

Chromulina spectabilis p. 324 figs. 28–33, *obconica* p. 338 fig. 48, **spp. n.**; SCHERFFEL Arch. Protistenk. **22.**

Chrysomonadinae, morphological notes on; SCHERFFEL Arch. Protistenkunde **22** pp. 299–344 pl. xvi.

Chrysopyxis stenostoma, pseudopodia instead of flagella, comparison with *Chrysamoeba*; LAUTERBORN Zool. Anz. **38** pp. 46–51 1 fig.

Chrysostephanosphaera **gen. n.** (near *Chrysamoeba*), *globulifera* **sp. n.** Austria; SCHERFFEL Arch. Protistenk. **22** pp. 307–313 figs. 17–21.

Costia necatrix (Henneguy), general account; NERESHEIMER [*In*: Handbuch der pathogenen Protozoen, hrsg. v. S. v. Prowazek Lfg **1** pp. 98–100 4 figs.

Crithidia campanulata Léger, from caddis-fly larvae, notes; MACKINNON Parasitol. **4** p. 32 pl. iii figs. 4–12.—*C. calliphorae* **sp. n.**, occurrence and description; SWELLENGREBEL Parasitol. **4** p. 110 text-figs. 1 & 2. [This form appears to be rather a *Leptomonas* with "leptotrypanosome" phase.]—"*C.*" *melophagia* considered to be a parasite distinct from the Trypanosome of the sheep [the author's experiments cannot be regarded as by any means conclusive]; SWINGLE Trans. Amer. Micr. Soc. **30** pp. 275–283.—"*C.*" *pulicis* **sp. n.**, account of forms found in gut of *Pulex irritans* [the authoress has not proved that this form is not the trypanomonad phase of some Trypanosome]; PORTER Parasitol. **4** pp. 237–254 pl. x.—Crithidial parasites [probably phases of some Trypanosome] from *Tabanus* spp., notes on different forms; BRUCE, HAMERTON & BATEMAN Proc. R. Soc. B **83** pp. 357–357 pl. xvi.—"*C.*" occurring in blood-sucking Invertebrates, discussion as to

the individuality of these forms or their connection with Trypanosomes; PORTER Parasitol. 4 pp. 22–23 & 154–163, and WOODCOCK T.c. pp. 150–153.

Cryptomonas marina **sp. n.** Kiel harbour; BÜTTNER Wiss. Meeresunters. Abth. Kiel N.F. **12** p. 129 text-fig. 8.

Cyanomonas **gen. n.** (near *Rhodomonas*), *baltica* **sp. n.**, Kiel harbour; BÜTTNER T.c. p. 129 text-fig. 9.

Cyathomonas From., Stellung im System; ULEHLA Ber. D. bot. Ges. **29** pp. 284–292.

Cyrtophora **gen. n.** (*Chrysomonadinae*) *pedicellata* **sp. n.**, Franzensbad, described, relationships; PASCHER Ber. D. bot. Ges. **29** pp. 112–125 1 pl.

Cystotrypanosoma **subgen. n.** (*Trypanosoma*) p. 308, for *intestinalis* **sp. n.** from *Lucilia*, with formation of cysts; ROUBAUD C. R. Soc. Biol. **71** pp. 306–308 27 text-figs.

Embadomonas **gen. n.** (Monadina) *agilis* **sp. n.** from Trichopterous larvae, described; MACKINNON Parasitol. **4** p. 30 pl. iii figs. 1–3 & text-fig. 1.

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Fanapepea **gen. n.** *intestinalis* **sp. n.**, occurrence and descriptive note; PROWAZEK Arch. Protistenk. **23** pp. 99 & 100 text-figs. 9–16.

Helcomastix globosa Senn, occurrence and description; SENN Zs. wiss. Zool. **97** pp. 648–649 pl. xxxi fig. 28.

Herpetomonas aspongopi described; ADERS Rep. Wellcome Res. Lab. **4** Vol. B (General Science) pp. 202–205 text-fig. 37.—*H. calliphorae* and *lineata* **spp. n.**, occurrence and description; SWINGLE J. inf. diseases **8** pp. 137–146 pls. iii & iv.—"*H.*" *pattoni* **sp. n.** [probably a phase of *T. lewisi*] in the rat-flea, note on; ID. T.c. pp. 134–137 pls. ii & iii.—*H. calliphorae* Swingle ("biflagellate" form), life-history, degenerative changes; SWELLENGREBEL Parasitol. **4** p. 112 text-figs. 3–12 [Cf. *Leptomonas* (*Crithidia*) *calliphorae*.]—*H. luciliae* **sp. n.**, biology and life-cycle; STRICKLAND Parasitol. **4** pp. 222–236 pls. viii & ix.—*H. lygaei*, described; ARCHIBALD Rep. Wellcome Res. Lab. **4** Vol. A (Med.) pp. 179–184 pl. xi.—*Herpetomonas* (type *H. muscae-domesticae* according to Prowazek) and *Leptomonas* (e.g. *L. drosophilae*) formerly regarded as quite distinct, now admitted to be not so separate; only a quantitative distinction between the two; *H. m.-d.* not really biflagellate; CHATTON C. R. soc. biol. **71** pp. 578–580. —"*H.*" *pattoni* not regarded as a distinct, independent form; more probably a phase of *T. lewisi*; SWELLENGREBEL & STRICKLAND Parasitol. **4** pp. 104–107.—[*H.* see under *Leptomonas*.]

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Heteronema klebsii Senn, described; SENN Zs. wiss. Zool. **97** pp. 649–652 pl. xxxi figs. 29–31.

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534 & 669–671.—*L. d.* from *Euphorbia pilulifera*, notes on; transmission by a Hemipteran; BOUET & ROUBAUD C. R. Soc. Biol. **70** pp. 55–57 12 text-figs.—*L. d.*, observations; LAFONT Bul. soc. path. exot. **4** pp. 464–467.—*L. drosophilae*, different phases described, leptotrypanosome form compared with *T. drosophilae*; CHATTON & LÉGER C. R. Soc. Biol. **70** pp. 34–36 text-figs.—*L. drosophilae*, structure and significance of axoplast, comparison with axostyle of Trichomonads; CHATTON & LÉGER op. cit. **71** pp. 575–578 6 text-figs.—*L. muscae-domesticae*, morphology of different forms, encystment stages, the question of its relationship to "*Herpetomonas*" *m.-d.*; DUNKERLY Q. J. Microsc. Sci. **56** pp. 645–655 pl. xxxi.—*L. m.-d.* and [or] *H. m.-d.*, different forms described; FLU Centralbl. Bakt. Abt. 1 **57** Originale pp. 522–530 2 pls.—*L.* (*H.*) *m.-d.*, cytological details, synonymy; ALEXEIEFF C. R. soc. biol. **71** pp. 379–380 text-figs.—*L. rubrostriatae, ampelophilae*, **spp. n.**, occurrence and specific distinctions from *drosophilae*; CHATTON & LÉGER T.c. pp. 663–666.—*L. soudanensis* **sp. n.** from *Pycnosoma*, characters regarded as distinguishing it from other forms in same hosts; ROUBAUD T.c. pp. 570–573 46 text-figs.—*L.* spp. different forms and phases from various spp. of *Drosophila* compared; CHATTON & LÉGER C. R. soc. biol. **70** pp. 120–122 text-figs.—*L.* (*H.*) spp. further diagnoses and comparisons, the question of the *Leptomonas-Herpetomonas* synonymy; ALEXEIEFF op. cit. **71** pp. 455–458 17 text-figs.

Mesojoenia **gen. n.** [*Lophomonadidae ?*], *decipiens* **sp. n.**, occurrence and diagnosis; GRASSI & FOA Rend. Acc. Lincei Ser. 5 **20** i p. 728.

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Monocercomonas cetoniae **sp. n.**, habitat and description; JOLLOS Arch. Protistenk. **23** pp. 311–317 pl. xiii.

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Prowazekia, as a genus, distinguished from *Bodo* by the presence of a kinetonucleus; HARTMANN Arch. Protistenk. **23** p. 143.—*P. weinbergi*, notes on; MATHIS & LÉGER "Recherches de parasitologie" etc. 1911 pp. 199–205 text-figs.

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Rhynchoidomonas (for *Rhynchomonas*, Patton) *luciliae*, cytological details, synonymy; Alexeieff C. R. Soc. Biol. **71** pp. 380–382 text-figs.—*R. l.* only a phase of *Leptomonas* (*Herpetomonas*) *m.-d.*; Alexeieff T.c. p. 458.

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Schizotrypanum cruzi, notes on habitat and schizogony; Chagas Bull. Soc. Path. exot. **4** pp. 467–471.—[*S.* see also under *Trypanosoma.*]

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Trypanoplasma (Laveran und Mesnil), general account; Neresheimer *In*: Handbuch der pathogenen Protozoen hrsg. v. S. v. Prowazek Lfg **1** pp. 101–117 22 text-figs.—*T. clariae* **sp. n.**; Mathis & Léger "Recherches de parasitologie" etc. 1911 p. 391 pl. xiii figs. 7–11.—*T.* (cf. *cyprini*), transmission of by, and development in, the leech *Hemiclepsis marginata*; Robertson Trans. R. Soc. **202** pp. 35 & 36 pl. i figs. 1–6.—*T. limnorum* p. 86 text-figs. 1 & 3, *desertorum* p. 85 figs. 2*b* & 10, *rupestre* p. 85 figs. 2*a* & 6, *helicogenae* p. 86 fig. 5, *tachcarum* p. 86 figs. 4 & 7, from various snails, described; Kühn Schr. physik. Ges. Königsberg **52**.

Trypanosoma anguillicola, *bancrofti*, **spp. n.**, from fish described; Johnston & Cleland Proc. Roy. Soc. N. S. Wales **44** pp. 407–415 figg.—*T. bocagei* França varr. n. *parva* and *magna* pp. 957 & 958, *chattoni* **sp. n.** pp. 1008 & 1009, from Tonkin toad [doubtful how far these are distinct forms]; Mathis & Léger C. R. Soc. Biol. **70**.—*Trypanosoma brucii*, Bau und Teilungserscheinungen; Kühn & Schuckmann Heidelberg SitzBer. Ak. Wiss. math.-natw. Kl. **1911** Abh. 11 pp. 1–21 1 pl.—*T. brucii* (or *pecaudi?*), cultural forms, also peculiar developmental forms [possibly involution-forms] in internal organs, bone-marrow etc. of *Gerbillus*; Buchanan Rep. Wellcome Res. Lab. **4** pp. 57–61 pl. ii. and Proc. Roy. Soc. B **84** pp. 161–164 pl. iii.—*T. brucii* sans kinétonucleus de Werbitzki, notes; Laveran Bul. soc. path. exot. **4** pp. 235–239 273–274.—*T. calmettei* from fowl, p. 360 pl. ix figs. 1–4, *T.* sp. from *Ardetta sinensis* (little bittern) [regarded by the authors as *T. calmettei*, but which is much more probably a distinct form] p. 362 figs. 9–11, *T. chouqueti* **sp. n.** from *A. flavicollis* [probably the same species as the preceding] p. 365 fig. 6; Mathis & Léger "Recherches de parasitologie" 1911.—*T. caprae* Kl. and Taute, notes on morphology; Fischer Zs. Hyg. **70** pp. 97–102 6 text-figs.—*T. chagasi* **sp. n.**, cytological study of this Piscine form; Horta & Machado Mem. Inst. Oswaldo Cruz **3** pp. 336–344 pl. xix.—*T. cazalboui* ne doit pas être identifié à *T. vivax*; Laveran Bul. soc. path exot. **4** pp. 193–195.—*T.* (*Schizotrypanum*) *cruzi*, phases of life-cycle in *Conorhinus*, schizogony in Man, described; Chagas Mem. Inst. Oswaldo Cruz **3** pp. 225–236.—*T. dimorphon* (sensu Lav. & Mesn.), morphology, comparison with *congolense*; Jowett J. trop. vet. Sci. **6** pp. 169–190 pls. viii–xii.—*T. dimorphon* sens. Lav. & Mesn. and *T.*

civax, from horses, Gambia, morphological comparison; YORKE & BLACKLOCK Ann. trop. Med. Parasitol. 5 pp. 413–434 pl. xviii.—*T. dimorphon* et *T. congolense*, notes; LAVERAN Bul. soc. path. exot. 3 pp. 518–521.—*T. drosophilae*, an independent eutrypanosome-form quite distinct from the leptotrypanosome-stages (or trypanoids) of *L. drosophilae*; CHATTON & LÉGER C. R. soc. biol. 71 pp. 573–575, also op. cit. 70 pp. 34–36 text-figs.—*T. evansi*, morphology, comparison with *T. brucii*; BRUCE Proc. R. Soc. B 84 pp. 181–187 pl. v.—*T. frobenius* sp. n. similar to *congolense* but regarded as distinct, origin and morphology; WEISSENBORN Arch. Schiffshyg. 15 pp. 477–499 pl. v.—*T. gambiense*, developmental phases in different organs of *Gl. palpalis*; BRUCE, HAMERTON, BATEMAN & MACKIE Proc. R. Soc. B 83 pp. 513–527 80 text-figs.—*T. g.*, developmental phases in *Gl. palpalis* described, pp. 342–348 pls. vi–viii, *T. grayi*, the crocodile-form and developmental phases in *Gl. palpalis*, pp. 350–354 pls. ix & x *p. p.*, *T. caprae* sp. n. from goats p. 371 figs. 43–49, *bovis* sp. n. (perhaps *T. cazalboui*) p. 369 figs. 50–53, morphology; KLEINE & TAUTE Arb. kais. Gesundhtsa. 31.—*T. gambiense* Dutton, morphology of different forms; comparison with those of *T. brucii*; BRUCE Proc. R. Soc. B 84 pp. 327–332 pl. xiii.—*T. g.*, possibility of more than one species or "strain" of human Trypanosome having been included under this name; CASTELLANI J. trop. Med. 14 p. 17.—*T. g.* and *T. rhodesiense*, various phases of life-history as seen in rats and guinea-pigs; formation of latent-bodies; FANTHAM Proc. R. Soc. B 83 pp. 212–227 pl. xv & 2 text-figs.—*T. hippicum* Darl., notes on morphology and possible mode of transmission; DARLING J. inf. diseases 8.—*T. hippicum* Darling, notes; LAVERAN Bul. soc. path. exot. 4 pp. 168–175.—*T. hylae* Fr. & Ath. is syn. *T. rotatorium* p. 672, *T. borreli* characterized and distinguished from *rotatorium* p. 674, from frogs, *T. bocagei* with varr. *parva* and *magna* p. 676 and *T. chattoni* p. 678, from toads, distinguished; MATHIS & LÉGER Ann. Inst. Pasteur 25 pls. v & vi.—*T. hypostomi* sp. n. from a Brazilian fish p. 521 text-figs. 1–4; SPLENDORE Bul. Soc. path. exot. 3.—*T. leptodactyli*, phases resembling schizogony; CARINI Arch. Protistenkunde 24 pp. 80–83 2 text-figs.—*T. lewisi*, intracellular stage in development of, in rat-flea; MINCHIN & THOMSON Brit. Med. J. 1911 ii pp. 361–364.—*T. l.*, different phases in rat-fleas described; SWINGLE J. inf. diseases 8 pp. 129–134 pls. i & ii.—*T. l.*, occurrence of characteristic trypaniform phases ("small trypanosomes") in cultures; DELANOË C. R. soc. biol. 70 pp. 704–706.—*T. musculi* sp. n. [syn. *T. duttoni* Thiroux] p. 231; KENDALL J. Infect. Dis. 3.—*T. nanum* Lav. (Uganda), morphological notes and comparison with *T. pecorum*; BRUCE, HAMERTON, BATEMAN & MACKIE Proc. R. Soc. B 83 pp. 180–186 pls. xiii & xiv.—*T. noctuae*, of the little owl, morphology of different forms and their connection (including the form hitherto distinguished as *T. ziemanni*); MINCHIN & WOODCOCK Q. J. Microsc. Sci. 57 pp. 166–182 pls. xx & xxi.—*T. numidae* sp. n. in Hühnern, Java (Holländisch); DE HAAN Geneesk. Tijdschr. Ned. Ind. 51 p. 622.—*T. pecorum* Bruce, notes; LAVERAN Bul. soc. path. exot. 3 pp. 718–721.—*T. perroteti* sp. n. [probably a different form of *T. martini* Bouet] p. 233 pl. vi fig. 15, *bocagei* sp. n. [a form of *T. rotatorium*?], occurrence and note, p. 231 figs. 5 & 6; FRANÇA Arch. R. Inst. Bact. 3.—*T. rhodesiense* Stephens & Fantham, shown to differ in many respects from *T. gambiense* and therefore probably a distinct form; LAVERAN C. R. Acad. sci. 153 pp. 1112–1116.—*T. r.* (or *T. gambiense* var. *rhodesiense*), notes on different forms and dimorphism; SWELLENGREBEL Centralbl. Bakt. Abt. I 61 Orig. pp. 193–206 9 text-figs.—*T. r.* and *T. gambiense*, question of their common ancestry and present distinction, as well-differentiated varieties; MESNIL & RINGENBACH C. R. soc. biol. 71 pp. 271–273 609–612.—*T. r.*, note on morphology and comparison with *T. gambiense*; STANNUS & YORKE Proc. R. Soc. B 94 pp. 156–160 pl. ii.—*T. rotatorium*, different forms of, from frogs, described; MATHIS & LÉGER "Recherches de parasitologie" etc. 1911 pp. 372–377 pl. x.—*T. bocagei* França varr. *magna* and *parva* pp. 378–380 pl. xi figs. 15–17, *chattoni* p. 380 figs. 1–14, described; MATHIS & LÉGER

T.c.—*T. r.*, different forms (distinguished as sexual and asexual), modes of division, including gametogony (multiple fusion), cytological details described; Machado Mem. Inst. Oswaldo Cruz **3** pp. 108–135 pls. vii & viii.—*T. rotatorium*, different forms of in Japan, compared; Koidzumi Centralbl. Bakt. Abt. 1 **58** Orig. pp. 454–460 1 pl.—*T. roulei* p. 186, *pellegrini* p. 187, **spp. n.**, from fishes, notes; Mathis & Léger C. R. Soc. Biol. **71**.—*T. roulei* from *Monopterus javanensis* p. 385 pl. xii figs. 6 & 7, *pellegrini* from *Macropodus viridi-auratus* p. 389 pl. xiii figs. 17 & 18, *T.* spp. varr., from fishes, pls. xii & xiii, described; Mathis & Léger "Recherches de parasitologie" 1911.—*T. spermophili* p. 511, *annamense* of *Equidae* Annam p. 513, **spp. n.**, classificatory remarks; Laveran Ann. Inst. Pasteur **25**.—*T. theileri*, des bœufs tunisiens, culture et morphologie; Manceaux, Yakimoff & Yakimova Bul. soc. path. exot. **4** pp. 378–380 figs.—*T. undulans* Fr. & Ath., of frogs, regarded as a well-defined species; *T. elegans* Fr. & Ath., also *T. inopinatum* and perhaps *T. hendersoni* Patton, probably only other phases of same species; França C. R. Soc. Biol. **70** pp. 978 & 979.—*T. uniforme* **sp. n.**, morphological notes and comparison with *T. vivax*; Bruce, Hamerton, Bateman & Mackie Proc. R. Soc. B **83** pp. 176–179 pl. xii.—*T. ziemanni*, see under *T. noctuae*.—*T.* spp. varr. (*brucii* or *pecaudi*, *evansi*, *vivax* or *cazalboui* and *nanum* or *pecorum*), morphology compared; Fry Rep. Wellcome Res. Lab. **4** Vol. A (Med.) pp. 41–56 pl. i.—*T.* of cattle (type *theileri-transvaaliense*), Holland, morphology of cultural forms; Swellengrebel Bull. Soc. Path. exot. **4** pp. 536–538 17 text-figs.—*T.* **sp. n.**, bei Rindern in Uruguay, morphologische und experimentelle Studien; Peter Arch. Schiffshyg. **14** Beih. 6 40 pp. 1 pl.—*T.* spp. of birds, perhaps new, morphological notes; Cardamatis Centralbl. Bakt. Abt. 1 **61** Orig. pp. 98–102 1 pl.—*T.* von Seefischen pp. 112–136, *T. dohrni* **sp. n.** in *Solea monochir* Golf von Neapel pp. 128–129, *T.* sp. n. in *Syngnathus acus* Golf von Neapel pp. 129–132 (Russ.); Yakimoff Jurjev Zeitschr. wiss. u. prakt. Veterin. med. **5** 1911 1 pl.

Trypanosomes of Mammals, methods of classifying and distinguishing, list of species with diagnoses; Laveran Ann. Inst. Pasteur **25** pp. 497–517.—Trypanosomes, pathogenic forms, means of identification; Laveran & Thiroux C. R. Acad. sci. **152** pp. 487–490.—The human Trypanosome of Northern Rhodesia, notes on morphology and effects on animals compared with *T. gambiense*; Bevan J. trop. Med. **14** pp. 19–22.—Trypanosomes (pathogenic) of various domestic animals, morphological notes; Kleine & Fischer Zs. Hyg.—Trypanosomes of cattle and cultural forms described: the question of their connection; Behn Zs. Hyg. **70** pp. 371–408 pls. vii & viii.—Étude biologique et histologique sur les Trypanosomes chez les Bovidés de Grèce; Cardamatis & Photinos Centralbl. Bakt. Abt. 1 **61** Orig. pp. 538–542 1 pl.—Trypanosomes of *Syrnium aluco*, development in mosquitoes; Mayer, Arch. Protistenk. **21** pp. 232–254 2 pls.—Trypanosomes from trumpter hornbill described; Dutton, Todd & Tobey J. med. Res. **16** pp. 65–69 pl.—Trypanosomes des Batraciens du Tonkin; Mathis & Léger Ann. Inst. Pasteur **25** pp. 671–681 figs.—Trypanosomes of different fish, transmission of by, and cyclical development in, the leech *Hemiclepsis marginata*; Robertson Trans. R. Soc. B **202** pp. 36–41 pl. i figs. 7–15 & pl. ii.

Uroglena marina **sp. n.**, Kiel harbour; Büttner Wiss. Meeresunters. Abth. Kiel N.F. **12** p. 127 text-fig. 6.

Allied to Flagellata:—

Coccolithophoridae.

Pontosphaera borealis **sp. n.** East Greenland Sea, diagnosed; Ostenfeld Medd. Grønl. **43** p. 284 text-fig. 11.

Syracosphaera lohmanni **sp. n.** Adriatic; Brunnthaler Intern. Rev. Hydrobiol. **3** p. 546 1 text-fig.

(b) Silicoflagellata (vacant).

(c) Dinoflagellata.

New genera and species of Dinoflagellates, diagnosed. (Reports on the scientific results of the expedition to the eastern tropical Pacific in charge of Alexander Agassiz, by the U. S.

fish commission steamer "Albatross" from October, 190[illegible], to March, 1905, No. 22); KOFOID & MICHENER Bull. Mus. Comp. Zool. Harvard Coll. **54** pp. 265–302.

Acanthogonyaulax **subgen. n.** (*Gonyaulax*) type *G. ceratocoroides* pp. 202 & 247; KOFOID Univ. Cal. Pub. Zool. **8.**

Amphidinium globosum p. 651 text-fig. 16, *aculeatum* p. 650 fig. 14, *A.* (?) *lanceolatum* p. 650 fig. 15, **spp. n.,** Adriatic; SCHRÖDER SitzBer. Ak. Wiss. Wien Abth. I **120.**—*A. operculatum* Clap. & Lach., occurrence in numbers at Port Erin and note on appearance; HERDMAN J. Linn. Soc. Zool. **32** pp. 71–75 pl. viii.

Amphidoma curtata, depressa, p. 274, *elongata, laticincta,* p. 275, *obtusa* p. 276, **spp. n.,** Eastern tropical Pacific; KOFOID & MICHENER Bull. Mus. Comp. Zool. Harvard Coll. **54.**

Amphisolenia astragalus, quadricauda, p. 293, *truncata* p. 294, **spp. n.,** Eastern tropical Pacific; KOFOID & MICHENER T.c.

Berghiella **gen. n.** (incert. sed.) *perplexa* **sp. n.** p. 301, Eastern tropical Pacific, diagnosed; KOFOID & MICHENER T.c.

Centrodinium expansum p. 286, *porulosa* p. 287, **spp. n.,** eastern tropical Pacific; KOFOID & MICHENER T.c.

Ceratium Schrank eine kurze Monographie; JÖRGENSEN Intern. Rev. Hydrobiol. **2** biol. Suppl. No. i pp. 1–124 10 pls.—*C. gravidum* varr. n. *angustum* p. 10 fig. 8, *latum* p. 11 fig. 9, *C. pentagonum* var. n. *turgidum* p. 21 fig. 33, *C. kofoidii* **nom. n.** p. 23 figs. 38 & 39, *setaceum* p. 23 figs. 40 & 41, *humile* p. 40 figs. 82 & 83, **spp. n.,** *C. breve* var. n. *curculum* p. 41 fig. 85, *C. gracile* f. *orthoceras* n. form. p. 44 fig. 95, *C. schmidti* **sp. n.** p. 50 figs. 110 & 111, *C. platycorne* var. n. *cuneatum* p. 59 fig. 126, *C. sumatranum* ff. *angulatum, recurvum* nn. form. p. 74 figs. 155 & 156, *C. pavillardii* p. 74 figs. 157 & 158, *leptosomum* p. 80 fig. 167, **spp. n.**; JÖRGENSEN T.c.—*C. dalmaticum* p. 643 text-fig. 10, *aestuarium* p. 648 fig. 13, **spp. n.,** Adriatic, diagnosed; SCHRÖDER SitzBer. Ak. Wiss. Wien Abth. I **120.**—*C. hirundinella,* Formveränderung als Anpassungserscheinung; KRAUSE Intern. Rev. Hydrobiol. biol. Suppl. Ser. **3** 2 pp. 1–32.—*C. tripos* var. *subsalsa* Ostf. biologische Studie u. Formenkreis; ARSTEIN Wiss. Meeresunters Abt. Kiel N.F. **12** pp. 135–162 10 text-figs.

Dinophysis collaris, expulsa, p. 292, *rugosa* p. 293, **spp. n.,** eastern tropical Pacific; KOFOID & MICHENER Bull. Mus. Comp. Zool. Harvard Coll. **54.**—*D. homunculus* Stein var. n. *gracilis,* Adriatic; SCHRÖDER SitzBer. Ak. Wiss. Wien Abth. I **120** p. 636 text-fig. 7.

Diplopsalis lenticula vide *Peridinium* and *Peridiniopsis.*

Ellobiocystis **gen. n.** p. 188, type *Ellobiopsis caridarum* Coutière pp. 188 192 pl. viii figs. 11–21, *villosus* p. 200 text-fig. 5*a*, *tuberosus* p. 200 text-fig. 5*b*, *filicollis* p. 201 pl. viii fig. 37 & text-fig. 6*a*, *catenatus* p. 201 text-fig. 6*b*, *tenuis* p. 202 pl. viii fig. 39 & text-fig. 6*c*, *mysidarum* p. 203 pl. viii figs. 7–10, **spp. n.,** occurrence and diagnoses; COUTIÈRE Bul. sci. France **45.**

Ellobiopsis racemosus and *caridarum,* **spp. n.,** occurrence and notes on structure; COUTIÈRE C. R. Acad. sci. **152** pp. 409–411.

Fusigonyaulax **subgen. n.** (*Gonyaulax*) type *G. birostris* pp. 201 246; KOFOID Univ. Cal. Pub. Zool. **8.**

Goniodoma reticulata p. 276, *crassa* p. 277, **spp. n.,** Eastern tropical Pacific; KOFOID & MICHENER Bull. Mus. Comp. Zool. Harvard Coll. **54.**

Gonyaulax, full account of skeletal structure, classification of different species, with new forms, occurrence and diagnoses, discussion of generic and specific characters; KOFOID Univ. Cal. Pub. Zool. **8** pp. 187–286 pls. ix–xvii.—*G.* **subgen. n.** (*Gonyaulax*) pp. 201 206, *sphaeroidea* p. 206 figs. 41 & 42, *diegensis* p. 217 figs. 21–24, *scrippsae* p. 228, *alaskensis* (Alaska) p. 249 figs. 45 46 32, **spp. n.,** California; KOFOID T.c.—*G. acuta, expansa,* p. 269, *subulata, arcolata,* p. 270, *minuta, pavillardi, reticulata,* p. 271, *senta, paucula,* p. 272, *inclinata, bispinosa,* p. 273, **spp. n.,** eastern tropical Pacific; KOFOID & MICHENER Bull. Mus. Comp. Zool. Harvard Coll. **54.**—*G. catenata* (Levander), skeletal morphology; KOFOID Univ. Cal. Pub. Zool. **8** pp. 287–294 pl. xviii.

Gymnodinium biciliatum **sp. n.**, freshwater, account of; Ohno Tokyo J. Coll. Sci. **32** Art. 2 pp. 77–92 1 pl.

Heterodinium angulatum, elongatum, laeve, p. 284, *lineatum, minutum*, p. 285, *spiniferum* p. 286, **spp. n.**, eastern tropical Pacific; Kofoid & Michener Bull. Mus. Comp. Zool. Harvard Coll. **54.**

Histioneis diomedeae p. 294, *costata, elongata*, p. 295, *hippoperoides, hyalina*, p. 296, *inclinata, inornata*, p. 297, *karsteni, panda*, p. 298, *reginella, rotundata*, p. 299, *striata* p. 300, **spp. n.**, eastern tropical Pacific; Kofoid & Michener T.c.

Ornithocercus formosus, orbiculatus, p. 300, **spp. n.**, eastern tropical Pacific; Kofoid & Michener T.c.

Oxyrrhis, see under Flagellata.

Oxytoxum breve p. 287, *recurvum, robustum*, p. 288, **spp. n.**, eastern tropical Pacific; Kofoid & Michener Bull. Mus. Comp. Zool. Harvard Coll. **54.**

Peridiniella **gen. n.** (near *Peridinium*) p. 279, *sphaeroidea* **sp. n.** p. 280, eastern tropical Pacific, diagnosed; Kofoid & Michener T.c.

Peridiniopsis asymmetrica **sp. n.** (*Diplopsalis lenticula* p. p.), characterised by arrangement of plates; Mangin C. R. Acad. sci. **153** pp. 30 & 31 2 text-figs.—*P. a.* described; id. T.c. pp. 644–647 5 text-figs.

Peridinium annulatum p. 280, *corniculum* p. 281, *hyalinum* p. 281, *karsteni, nodulosum* p. 282, *pacifica, poucheti*, p. 283, **spp. n.**, eastern tropical Pacific; Kofoid & Michener Bull. Mus. Comp. Zool. Harvard Coll. **54.**—*P. lenticulatum* **nom. nov.** (for *Diplopsalis lenticula* var. *minor*), characterised by arrangement of plates; Mangin C. R. Acad. sci. **153** pp. 30–32 3 text-figs.—*P. paulseni* **nom. n.** for *P. lenticulatum* Mangin (to avoid confusion), described; Mangin T.c. pp. 647–649 5 figs.—*P.* spp., modifications of the cuirass; Mangin Intern. Rev. Hydrobiol. **4** pp. 44–54 pls. vii & viii.

Phalacroma circumcincta p. 288, *favus, fimbriata, gigantea*, p. 289, *limbata, porosa*, p. 290, *practexta, pulchra, turbinea*, p. 291, **spp. n.**, eastern tropical Pacific; Kofoid & Michener Bull. Mus. Comp. Zool. Harvard Coll. **54.**

Protoceratium cancellorum p. 277, *globosum, pellucidissimum*, p. 278, *pepo, promissum*, p. 279, **spp. n.**, eastern tropical Pacific; Kofoid & Michener T.c.

Spiraulax **gen. n.** (Peridinida) genotype *Gonyaulax jolliffei* California, description; Kofoid Univ. Cal. Pub. Zool. **8** pp. 295–300 pl. xix.

Staphylocystis **gen. n.** (*Ellobiopsidae*) type *Ellobiopsis racemosus* Coutière, described; Coutière Bul. Sci. France-Belgique **45** p. 189 pl. viii figs. 1–6.

Steiniella Schütt reduced to subgen. of *Gonyaulax* pp. 202 & 247; Kofoid Univ. Cal. Pub. Zool. **8.**

(d) Rhynchoflagellata (vacant).

5. CILIOPHORA.

(a) Ciliata.

Nordische Ciliata mit Ausschluss der Tintinnoidea; Hamburger & Buddenbrock in Nordisches Plankton Lfg **15** No. xiii 152 pp. 185 text-figs.

Anoplophrya brasili Lég. & Dub., phases in conjugation, comparison with *A.* (*Collinia*) *branchiarum*, relationships to other parasitic Ciliates; Collin Arch. Zool. exp. Sér. 5 **8** N. et R. pp. xx–xxviii 1 text-fig.

Balantidium littorinae and *testudinis* **[spp. n.?]**, details of nuclear structure and behaviour, with special reference to the cyclical variations of the karyosome; Chagas Mem. Inst. Oswaldo Cruz **3** pp. 136–144 pls. ix & x.

Blepharisma clarissima **sp. n.**, occurrence and description; Anigstein Arch. Protistenk. **24** pp. 127–137 pl. x figs. 1–11.

Coelosoma **gen. n.** (near *Prorodon*), *marina* **sp. n.**, occurrence and description; Anigstein T.c. pp. 137–146 pl. x figs. 12–15.

Colpidium colpoda, permutation nucléaire dans la conjugaison; Dehorne C. R. Acad. sci. **152** pp. 1354–1357.

Colpoda cucullus, true conjugation here, with nuclear fusion; Dangeard C. R. Acad. sci. **152** pp. 1032–1035 5 text-figs. Also T.c. pp. 1703–1705.

Conchophrya **gen. n.** (near *Microthoracinae*), *davidoff* **sp. n.**, occurrence and description; CHATTON Arch. Zool. exp. Sér. 5 **8** N. et R. pp. xiv–xx text-figs. 5 & 6.

Cothurniopsis antarctica, subglobosa, **spp. nn.**, région Antarctique; DADAY Állatt. Közlem. **10** pp. 97 & 114 2 text-figs.

Fabrea salina (Henneguy), minute structure and pigment; FAURÉ-FREMIET C. R. soc. biol. **71** pp. 419–420.

Mesnilella cepedei **sp. n.**, occurrence and distinguishing characters; ANDRÉ Rev. Suisse Zool. **19** pp. 267–270 1 text-fig.

Opalinopsis nucleolobata **sp. n.**, occurrence and note on; SMITH & FOX Univ. Pennsylvania Med. Bull. **21** pp. 343–347 9 text-figs.

Paramœcium aurelia and *caudatum*, distinct species, distinctive characters; WOODRUFF J. Morph. **22** pp. 223–237.—*P. caudatum* and probably other Infusoria, non-copulation du noyau échangé et du noyau stationnaire et la disparition de ce dernier dans la conjugaison; DEHORNE C. R. Acad. sci. **152** pp. 922–925.

Perikaryon **gen. n.** (allied to *Foettingeriidae*), *cesticola* **sp. n.**, habitat and description; CHATTON Arch. Zool. éxp. Sér. 5 **8** N. et R. pp. viii–xiv 4 text-figs.

Rhabdostyla amphivrae, synonymy; ANDRÉ Zool. Anz. **38** p. 589.

Sieboldiellina **gen. n.** for the Ciliate genus *Discophrya* (type *D. planariarum* Von. Sieb.) praecoc. by an Acinetan COLLIN Arch. Zool. exp. Sér. 5 **8** p. 440.

Zoothamnium alternans Bau u. Contractionen des Stiels (Russ. + deutsch. Rés.); KOLTZOFF Biol. Zeitschr. **2** pp. 55–111 113–138 Textf. 1–13.

(b) Suctoria (= Acinetaria).

Acinetaria (chiefly *Tokophrya* and *Paracineta* spp.) experimental variations and alterations due to teratogenic factors described; COLLIN Arch. Zool. exp. Sér. 5 **8** pp. 421–497 pls. x & xi.

Acineta swarczewskyi **sp. n.** for *A. gelatinosa* Buck, p. p.; COLLIN T.c. p. 426.

Paracineta **gen. n.** for *Acineta homari* Sand. and *crenata* Fraip.; COLLIN T.c. p. 468.

Podophrya sandi **sp. n.** for *Acineta gelatinosa* Buck p. p.; COLLIN T.c. p. 426.

Rhabdophrya trimorpha **sp. n.**, Cap l'Abeille, name only; CHATTON Bull. Soc. Zool. **36** p. 3.

Tokophrya steueri **sp. n.** Adriatic, described; SCHRÖDER SitzBer. Ak. Wiss. Wien Abth. I **120** pp. 757–763 1 pl.

ADDENDUM:—*Protozoa* 1910.

Systematic: Flagellata.

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III. PORIFERA OR SPONGIDA

ARRANGED BY

I. B. J. SOLLAS

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†*Loczia* **gen. n.** ex fam. *Syconidae cryptocoelioides* **sp n.** Bakony, Vinassa de Regny No. 2 p. 16 T.c.

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IV. COELENTERATA

ARRANGED BY

C. L. BOULENGER.

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V.. ECHINODERMA

ARRANGED BY

HERBERT L. HAWKINS, M.Sc., F.G.S.

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I.—TITLES.

The symbols inclosed in square brackets, placed after each title, indicate the sections under which the memoir is recorded; they are an amplification of the system of the Zoology schedule, though the first number is given in an abbreviated form, *e.g.*, 27 instead of 1027.

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†*Conulus albogalerus*, †*C. subrotundus*, HAWKINS Geol. Mag. **8** (A) p. 71 pl. iii.—†*C. albogalerus*, HAWKINS Geol. Mag. **8** (C) p. 451.—†*C. subconicus*, VALETTE Auxerre Bul. Soc. Sci. hist. nat. p. 147 fig. 9.—†*C. subrotundus*, LAMBERT Carcassonne Bul. Soc. étud. sci. **22** p. 78.

†*Cotteaudia* nom. nov. pro *Cottaldia* Desor, LAMBERT & THIÉRY Essai nomencl. rais. Ech. fasc. iii p. 229.

Ctenocidaris **gen. n.** near *Rhynchocidaris* p. 3, *C. speciosa* Antarctic Ocean p. 4 pls. i–ii iii figs. 1–2 pl. iv figs. 1–3 pl. xiii, MORTENSEN Schwed. Südpolar-Exped. **6** 4.

†*Cyathocidaris*, **subgen. n.** of *Cidaris*, †*C. cyathifera* (Agassiz) is type p. 4, †*C. erebus* p. 7 pl. i figs. 1 23–30a, †*C. nordenskjoldi* p. 5 pl. i figs. 2–18, †*C. patera* p. 6 pl. i figs. 19–22, **spp. n.**, Uppermost Cretaceous, Seymour Isle (Antarctic), LAMBERT Schwed. Südpolar-Exped. Bd III No. 11.—†*C. arcuionensis*, LAMBERT Abh. Schweiz. Pal. Ges. **37** p. 11 pl. i figs. 20–23.—†*C. cyathifera*, LAMBERT Carcassonne Bul. Soc. étud. sci. **22** p. 45 pl. ii figs. 24 & 27.

†*Cyphosoma* cf. *majus*, HUME London Q. J. Geol. Soc. **67** p. 120.—†*C. pulchrum*, FABIANI Roma Mem. Soc. XL **15** p. 117 pl. i fig. 16.

Dendraster, *D. excentricus* is type, CLARK H. L., Ann. Mag. Nat. Hist. **7** p. 605.

†*Desorella moravica* **sp. n.** Tithon Stramberg, BLASCHKE Wien Ann. Nathist. Hofmus. **25** p. 180 pl. vi fig. 11.

Diadema, rediagnosed and synonymy, *D. turcarum* is type, LAMBERT & THIÉRY Bul. Soc. Sci. Nat. Haute-Marne **6** 1909 p. 56.

Dicoptella bigoti **sp. n.** Tortonien Manche, LAMBERT & THIÉRY Essai nomencl. rais. Ech. fasc. iii p. 233 pl. vii figs. 1–3 [plate unpublished].

†*Dictyopleurus haimei*, HUME London Q. J. Geol. Soc. **67** p. 135.

†*Disasterinae*, contains genera *Disaster* and *Metaporhinus*, LAMBERT

Grenoble, Bul. soc. stat. sci. nat. arts ind. **11** p. 369.

†*Discoidea cylindrica*, HAWKINS Geol. Mag. **8** (A) p. 72; (C) p. 448.

†*Discoides minimus*, LAMBERT Carcassonne Bul. Soc. étud. sci. **22** p. 75.

†*Diplopodia dumasi* v. *Tetragramma dumasi*.

†*D. houdardi* **sp. n.** Hauterivien, Haute-Marne, LAMBERT & THIÉRY Essai nomencl. rais. Ech. fasc. ii pl. iv figs. 14–17 fasc. iii p. 187.

Dorocidaris papillata, SÜSSBACH & BRECKNER Wiss. Meersunters. **12** p. 174.

†*D. cherchereusis*, HUME London Q. J. Geol. Soc. **67** p. 129.—†*D. defrancei*, LAMBERT Carcassonne Bul. Soc. étud. sci. **22** p. 37.—†*D. pavillata*, LAMBERT Abh. Schweiz. Pal. Ges. **37** p. 16 pl. i figs. 37 & 38.

†*D. allardi* Molasse Beaucaire p. 14 pl. i fig. 36, †*D. deydieri* Helvétien Reillanne p. 16 pl. iii figs. 4 & 6, †*D. gattungae* Langhien Beaucaire p. 13 pl. i figs. 1–4 & 46, †*D. mingaudi* Pliocène bassin du Rhône p. 18 pl. i figs. 44 & 45, **spp. n.**, LAMBERT Abh. Schweiz. Pal. Ges. **37**.—†*D. brasili* **sp. n.** Aturien Cotentin, LAMBERT Caen Bul. soc. linn. sér. 6 **2** p. 7 pl. i figs. 1–4.

†*Echinanthus airaghii*, FABIANI Roma Mem. Soc. XL **15** p. 122 pl. ii fig. 1.

Echinarachnius, *E. parma* is type, CLARK H. L. Ann. Mag. Nat. Hist. **7** p. 605.—*E. parma*, GREGORY Zool. Anz. Leipzig **38** p. 323.

†*E. gibbsii* p. 125 pl. xxxv figs. 1 & 2 pl. xli fig. 2 pl. xlii fig. 7 pl. l fig. 4 var. *ashleyi* pl. xli fig. 1, ARNOLD & ANDERSON Bull. U. S. Geol. Surv. **398**.

†*Echinobrissus clunicularis*, FUCINI Pisa Atti Soc. tosc. sc. nat. **27** p. 106 pl. i fig. 8.—†*E. humei*, HUME London Q. J. Geol. Soc. **67** p. 120.—†*E. woodwardi*, RICHARDSON London Proc. Geol. Ass. **22** p. 102.

Echinocardium cordatum, KLINGHARDT Innere Organisation-Seeigel u.s.w. pls.—*E. cordatum* p. 191, *E. flavescens* p. 193, SÜSSBACH & BRECKNER Wiss. Meersunters. **12**.—*E. flavescens*, HORNYOLD Fribourg Mém. Soc. Sci. Nat. **1** p. 34.

†*Echinoconus attogalerus*, †*E. vulgaris*, KLINGHARDT Innere Organisation Seeigel u.s.w. pls.—†*E. rocmeri* p. 75, †*E. subconicus* p. 67, †*E. vulgaris* p. 71, LOESCHER Cassel Festschr. Ver. f. Natk. **1911**.—†*E.* sp., FRIČ Arch. Natw. LdDurchf. Böhmen **15** p. 73, fig. 311b.

†*Echinocorys vulgaris*, HUME London Q. J. Geol. Soc. **67** p. 126.

†*E. scutatus* var. *depressus* p. 32 pl. ii figs. 3–5, var. *subconicus* p. 32 pl. iii figs. 6–10, var. *truncatus* p. 32 pl. iii fig. 11 pl. iv fig. 12, **varr. n.**, Upper Chalk Hampshire, GRIFFITH & BRYDONE Zones of Chalk in Hants.

Echinocyamus, *E. angulosus* is type, CLARK H. L. Ann. Mag. Nat. Hist. **7** p. 605.—*E. pusillus*, KLINGHARDT Innere Organisation-Seeigel u.s.w. pls.—SÜSSBACH & BRECKNER Wiss. Meersunters. **12** p. 187; THÉEL Stockholm Vet.-Ak. Handl. **47** p. 10.

†*Echinocyphus matronensis* **sp. n.** Turonien Marne, LAMBERT & THIÉRY Essai nomencl. rais. Ech. fasc. iii p. 216 pl. v figs. 20–24.

Echinodiscus, *E. bisperforatus* is type, CLARK H. L. Ann. Mag. Nat. Hist. **7** p. 605.

Echinolampas depressus, HAWKINS Geol. Mag. **8** (B) p. 257 pl. xiii fig. 1.

†*E. chericherensis* p. 669 pl. xlviii figs. 1 & 2 pl. xlix figs. 1–3, †*E. discus* p. 671, GREGORY Q. J. Geol. Soc. **67**.—†*E. crameri*, *fraasi*, p. 138, †*E. humei* p. 135, HUME London Q. J. Geol. Soc. **67**.—†*E. subaffinis*, FABIANI Roma Mem. Soc. XL **15** p. 125 pl. ii fig. 2.

†*E. cythereus* **sp. n.** [nom. nud.] "Stefanini," Pliocene, Isola di Citera, NELLI Roma Rend. Acc. Lincei **20** p. 565.—†*E. cytherea* **sp. n.** Pliocene Mediterranean, STEFANINI Riv. ital. paleont. **17** p. 12 pl. v fig. 3.—†*E. spanoi* **sp. n.** Miocene Sardinia, LOVISATO Paleontogr. ital. **16** p. 142 pl. xviii fig. 1.

Echinoneus cyclostomus, WESTERGREN Mem. Mus. Comp. Zool. **39** (2) p. 44 pls. i–xxviii.

†*Echinopsis parisiensis*, LAMBERT Elbeuf Bul. Soc. étud. sci. nat. **1910** p. 1.

Echinus acutus-esculentus (hybrid), MORTENSEN Kjöbenhavn Nath. Medd. **63** p. 61 fig. 1.—*E. acutus* p. 180, varr. *flemingi* and *norvegicus* p. 181, *E. elegans* p. 179, *E. esculentus* p. 183, with **var. n.** *depressa* p. 184 pl. i figs. 1–3, SÜSSBACH & BRECKNER Wiss. Meeresuntersuch. **12**.—*E. esculentus depressa* syn. of var. *fuscus*, BRECKNER Zool. Anz. Leipzig **37** p. 251.—*E. microtuberculatus*, BOGOJAVLENSKIJ Izv. Obšč. liub. jest. **122** p. 30 pls. ii & iii; KONOPACKI Tyg. lek. Lwów **5** pp. 682 & 691; KONOPACKI Arch. Zellforschg. Leipzig **7** p. 139.

†*E. caillaudi*, LAMBERT Abh. Schweiz. Pal. Ges. **37** p. 42.

†*Ellipsechinus miocenicus*, LAMBERT Abh. Schweiz. Pal. Ges. **37** p. 47 pl. iii figs. 21 & 23.

Encope, *E. emarginatus* is type, CLARK H. L. Ann. Mag. Nat. Hist. **7**. p. 605.

†*E. gatunensis* **sp. n.** Pliocene Panama canal, TOULA Wien Jahrb. Geol. ReichsAnst. **61** p. 486.

†*Eodiadema granulatum*, HORWOOD Northampton J. Nat. Hist. Soc. **14** p. 108.

†*Epiaster dallonii* **sp. n.** Cénomanien Sopeira, LAMBERT Paris Bul. Soc. géol. **10** p. 810 pl. xv figs. 4 & 5.

Eucidaris metularia, DÖDERLEIN Abh. Senckenb. Ges. **34** p. 239.

Eucope, err. type for *Encope* q.v., CLARK H. L. Ann. Mag. Nat. Hist. **7** *passim*.

Eurocidaris perrieri **sp. n.** [nom. nud.] Antarctic, KOEHLER Paris C. R. Acad. Sci. **153** p. 736.

†*Euspatangus formosus*, FABIANI Roma Mem. Soc. XL **15** p. 135 pl. ii fig. 7.

Fibularia, *F. trigona* is type, CLARK H. L. Ann. Mag. Nat. Hist. **7** p. 605.

†*F. luciani*, GREGORY Q. J. Geol. Soc. **67** p. 664.

†*Galeropygus agariciformis*, HAWKINS Geol. Mag. **8** (B) p. 259 pl. xiii fig. 4.

†*Gitolampas fallax*, HUME London Q. J. Geol. Soc. **67** p. 129.

†*Globator* discussed p. 78, †*G. cornuum* Campanien Mte. des Cornes p. 83 pl. iii figs. 11–14, †*G. kaugi* Santonien Bastié p. 82 pl. iii figs. 6–10, **spp. n.**, *G. nucleus* p. 80 pl. iii figs. 15 & 16, LAMBERT Carcassonne Bul. Soc. étud. sci. **22**.

†*Glypticus hieroglyphicus*, THIÉRY Bul. soc. sci. Haute-Marne **7** p. 42 fig. 212.

†*Goniophorus lorioli* **sp. n.** Albien Basses-Alpes, LAMBERT & THIÉRY Essai nomencl. rais. Ech. fasc. iii p. 209 pl. v figs. 8–11.

†*Goniopygus petrocoriensis*, LAMBERT Carcassonne Bul. Soc. étud. sci. **22** p. 73 pl. ii figs. 6–9.

†*Hebertia*, distinguished from *Echinopsis*, LAMBERT Elbeuf Bul. Soc. étud. sci. nat. **1910** p. 3.

†*Hemiaster*, list of spp., p. 108, †*H. desori* p. 103, LAMBERT Carcassonne Bul. Soc. étud. sci. **22**.—†*H. depressus*, FRIČ Arch. Natw. LdDurchf. Böhmen **15** p. 75 fig. 317.—†*H. neustriae* p. 25 pl. i figs. 20–23, †*H. nucula* p. 26 pl. i figs. 24–26, LAMBERT Caen Bul. soc. linn. sér. 6 **2**.—†*H. pseudofourneli*, HUME London Q. J. Geol. Soc. **67** p. 123.—†*H. scillae*, GREGORY Q. J. Geol. Soc. **7** p. 673.—†*H. sublacunosus*, WANDERER Tierverst. Kreide Sachsen p. 15 pl. ii fig. 13.

†*H. aragonensis* p. 811 pl. xv figs. 6 & 7, †*H. dallonii* p. 812 pl. xv figs. 8–10, †*H. incrassatus* p. 813 pl. xv figs. 11 & 12, **spp. n.**, Cénomanien Sopeira, LAMBERT Paris Bul. Soc. géol. **10**.—†*H. slocomi* **nom. n.** pro *H. lacunosus* Slocom non Goldfuss, LAMBERT Rev. crit. paléozool. **15** p. 67—†*H. vomer* **sp. n.** Aturien Antarctique, LAMBERT Schwed. Südpolar-Exped. Bd III No. 11 p. 10 pl. i figs. 44–46a.

†*Hemicidaris bravenderi*, RICHARDSON London Proc. Geol. Ass. **22** p. 106.—†*H. crenularis* p. 42 fig. 213, †*H. purbeckensis* p. 51 fig. 266, THIÉRY Bul. soc. sci. Haute-Marne **7**.

†*Hemipedina* sp. Lower Lias Somerset, RICHARDSON London Q. J. Geol. Soc. **67** p. 38.

†*H. brasili* **sp. n.** Toarcien Caen, LAMBERT & THIÉRY Essai nomencl. rais. Ech. fasc. iii p. 197 pl. v figs. 4–7.

†*Hemipneustes radiatus*, KLINGHARDT Innere Organisation-Seeigel u.s.w. pls.

†*Heteraster oblongus*, HAWKINS Geol. Mag. **8** (B) p. 263.

†*Heterodiadema libycum*, HUME London Q. J. Geol. Soc. **67** p. 120.

Hipponoë esculenta, PINNEY Biol. Bull. Woods Hole **21** p. 168.

†*Holaster planus*, KLINGHARDT Innere Organisation-Seeigel u.s.w. pls.; WANDERER Tierverst. Kreide Sachsen p. 13 pl. ii fig. 10.—†*H. suborbicularis*, FRIČ Arch. Natw. LdDurchf. Böhmen **15** p. 74 fig. 316.

†*H. lorioli* **sp. n.** Cénomanien Antarctique, LAMBERT Schwed. Südpolar-Exped. Bd III No. 11 p. 8 pl. i fig. 38.

†*Holectypus depressus*, ALLORGE & BAYZAND London Proc. Geol. Ass. **22** p. 4.—†*H. depressus*, *H. hemisphaericus*, HAWKINS Geol. Mag. **8** (C) p. 447.—†*H. turonensis*, HUME London Q. J. Geol. Soc. **67** p. 123.

†*H.* "sp. n." Kreide Peru, SALFELD Leipzig Wiss. Ver. Erdk. **7** p. 219 pl. iv fig. 1.

†*Homoeaster blayaci* **sp. n.** Maestrichtien Algérie, BLAYAC & COTTREAU Paris. Bul. soc. géol. (4) **9** p. 428 pl. xiv figs. 7–19.

†*Hyboclypus gibberulus*, THIÉRY Bul. soc. sci. Haute-Marne **7** p. 33 fig. 170.

†*Hypsoclypeus hemisphericus*, GREGORY Q. J. Geol. Soc. **67** p. 671.

†*Isomicraster dallonii* **sp. n.** Sénonien Turbon, LAMBERT Paris Bul. Soc. géol. **10** p. 813 pl. xv figs. 13 & 14.

†*Kephrenia*, HUME London Q. J. Geol. Soc. **67** p. 135.

Laganum, *L. laganum* is type, CLARK H. L. Ann. Mag. Nat. Hist. **7** p. 605.

†*Lambertechinus* **nom. n.** pro *Actinopsis* Lambert 1897, COSSMANN Paris Rév. crit. Paléozool. **3** p. 45.

†*Lambertia* Oppenheim 1899 *v. Oppenheimia*.

†*Lambertiaster auberti*, BLAYAC & COTTREAU Paris Bul. soc. géol. (4) **9** p. 425.

†*Leiocidaris sismondai* p. 18 pl. i fig. 35, †*L. thyrsiger* p. 19 pl. i fig. 34, LAMBERT Abh. Schweiz. Pal. Ges. **37**.

†*Leiopedina samusi*, FABIANI Roma Mem. Soc. XL **15** p. 118 pl. i fig. 17.

Linopneustes longispinus, KLINGHARDT Innere Organisation Seeigel u.s.w. pls.

†*Linthia cavernosa* p. 126, †*L. lorioli* p. 134, HUME London Q. J. Geol. Soc. 67.

Lovenia subcarinata, DÖDERLEIN Abh. Senckenb. Ges. **34** p. 247 pl. x fig. 14.

Loxechinus albus, MORTENSEN Schwed. Südpolar-Exped. **6** 4 p. 52 pl. vi figs. 1–6 pl. viii pl. xvi figs. 2 4–5 14 16–17.

†*Macropneustes brissoides*, FABIANI Roma Mem. Soc. XL **15** p. 133 pl. ii fig. 6.

†*Magnosia pauperata*, BLASCHKE Wien Ann. Nathist. Hofmus. **25** p. 181 pl. v fig. 9.

Mellita, *M. quinquiesperforatus* is type, CLARK H. L. Ann. Mag. Nat. Hist. **7** p. 605.

†*Micraster coranguinum*, †*M. glyphus*, KLINGHARDT Innere Organisation Seeigel u.s.w. pls.—†*M. corbaricus* p. 96, †*M. mathesoni* p. 100, LAMBERT Carcassonne Bul. Soc. étud. sci. **22**.—†*M. cortestudinarium*, WANDERER Tierverst. Kreide-Sachsen p. 14 pl. ii fig. 12.—†*M.* cf. *sweeti* Desert sandstone, Darling Downs, Queensland, CHAPMAN Proc. R. Soc. Vict. n. ser. **23** p. 415.

Micropetalon purpureum, WESTERGREN, Mem. Mus. Comp. Zool. **39** (2) p. 63 pls. xxix–xxxi.

†*Miotoxaster ricordeani*, THIÉRY Bul. soc. sci. Haute-Marne **7** p. 64 fig. 346.

†*Mistechinus mayeri*, HUME London Q. J. Geol. Soc. **67** p. 138.

Moira atropos, PINNEY Biol. Bull. Woods Hole **21** p. 168.

†*Moiropsis velaini*, LAMBERT Elbeuf Bul. Soc. étud. sci. nat. **1910** p. 9, pl. i figs. 3–5.

Mortensenia oldonga, DÖDERLEIN Abh. Senckenb. Ges. **34** p. 246.

†*Mortonella* p. 684, †*M. rogersi* p. 685 pl. xxii figs. 2 & 3, STEFANINI Boll. Soc. geol. ital. **30**.

†*Noetlingia* **nom. n.** pro *Protechinus* Noetling 1897, LAMBERT Paris Rév. crit. Paléozool. **2** p. 126.

†*Nordenskjöldaster* **gen. n.** of *Homoeasteridae*, †*N. antarctica* **sp. n.** Vraconien Antarctique, LAMBERT Schwed. Südpolar-Exped. Bd III No. 11 p. 10 pl. i figs. 39–43.

Notechinus magellanicus, MORTENSEN Schwed. Südpolar-Exped. **6** 4 p. 36 pl. xvi figs. 3 6 9–12 19.

†*Nucleopygus* "nov. spec." Santonien Sougraigne, LAMBERT Carcassonne Bul. Soc. étud. sci. **22** p. 88 pl. iii figs. 20–22.

†*Oligopygus ovumserpentis*, STEFANINI Riv. ital. paleont. **17** p. 10.

†*O. meunieri* **sp. n.** Eocene Senegal, LAMBERT Bull. Soc. Natural. Ain. **21** p. 1 pl. i.

†*Odopygus orbignyi* p. 19, †*O. piriformis* p. 15 pl. i figs. 15–16, LAMBERT Caen Bul. soc. linn. sér. 6 **2**.

†*O. gracilis* **sp. n.** Aturien Cotentin, LAMBERT T.c. p. 20 pl. i figs. 17 & 18.

†*Oppenheimia* **nom. n.** pro *Lambertia* Oppenheim 1899, COSSMANN Paris Rév. crit. Paléozool. **4** p. 186.

†*Orthopsis grossouvrei* **sp. n.** Santonien Val. de Bordeneuve p. 63 pl. ii figs. 14 & 15, †*O. miliaris* p. 64 pl. ii fig. 16, LAMBERT Carcassonne Bul. Soc. étud. sci. **22**.

†*Ovulaster auberti* var. *sabathensis* var. **n.** p. 426 pl. xiv figs. 1–6, †*O. obtusus* **sp. n.** p. 427 pl. xiv figs. 20–28 Maestrichtien Algérie, BLAYAC & COTTREAU Paris Bul. soc. géol. (4) **9**.

†*Palaeodiadema fragile*, VALETTE Auxerre Bul. Soc. Sci. hist. nat. p. 145 fig. 8.

Paracentrotus gaimardi, KOEHLER Ann. Inst. Océan. Paris **2** p. 23 pl. ii figs. 13 & 14 pl. iii fig. 7.—*P. lividus*, CHEVREUX & VLÈS Arch. Zool. Paris **8** p. 499; DANTAN Paris C. R. Acad. Sci. **152** p. 468.

†*Paracidaris florigemma* p. 42 fig. 216, †*P. spinulosa* p. 30 fig. 142, THIÉRY Bul. Soc. Sci. Haute-Marne **7**.

†*Paralampas*, HUME London Q. J. Geol. Soc. **67** p. 135.

Parapneustes **gen. n.** [no species mentioned] Antarctic, KOEHLER Paris C. R. Acad. Sci. **153** p. 736.

†*Parasalenia fontanesi*, LAMBERT Abh. Schweiz. Pal. Ges. **37** p. 21 pl. i figs. 48–51.

Parechinus miliaris, SÜSSBACH & BRECKNERWiss. Meersunters. **12** p. 178; THÉEL Stockholm Vet.-ak. Handl. **47** p. 10.

†*Pedinotiaria barattei* **sp. n.** Bathonien Haute-Marne, LAMBERT & THIÉRY Essai nomencl. rais. fasc. iii p. 163 pl. v figs. 12–15; THIÉRY Bul. Soc. Nat. Haute-Marne **1** p. 7 pl. i figs. 15 & 16.

†*Periarchus* p. 687, †*P. pileussinensis* p. 688 pl. xxii figs. 4 & 5, STEFANINI Boll. Soc. geol. ital. **30**.

†*Periaster oblongus*, HUME London Q. J. Geol. Soc. **67** p. 120.

†*Peribrissus excentricus*, STEFANINI Riv. ital. paleont. **17** p. 7.

†*Pericosmus spatangoides*, FABIANI Roma Mem. Soc. XL **15** p. 130 pl. ii fig. 3.

Peronella, *P. peronii* is type, CLARK H. L. Ann. Mag. Nat. Hist. **7** p. 605.

†*Phyllobrissus boriesi* **sp. n.** Campanien Mte. des Cornes, LAMBERT Carcassonne Bul. Soc. étud. sci. **22** p. 89 pl. iii figs. 17–19.

†*Phymapatagus* **gen. n.** of *Spatangidae*, type *Spatangus britannus*, LAMBERT Feuille jeunes natural. Paris **41** p. 2.

†*Phymechinus mirabilis*, THIÉRY Bul. soc. sci. Haute-Marne **7** p. 42 fig. 214.

†*Phymosoma archiaci* p. 65, †*P. tiara* p. 67, LAMBERT Carcassonne Bul. Soc. étud. sci. **22**.—†*P. tiara* p. 135 fig. 5, VALETTE Auxerre Bul. Soc. Sci. hist. nat.—†*P.* (*Gauthieria*) *radiatum*, WANDERER Tierverst. Kreide Sachsen p. 12 pl. ii fig. 6.

†*P. pseudomaresi* **sp. n.** Yonne Campanien VALETTE Auxerre Bul. Soc. Sci. hist. nat. p. 138 fig. 6.

†*Physaster vasseuri* **sp. n.** Cenomanien Sopeira, LAMBERT Paris Bul. Soc. géol. **10** p. 808 pl. xv figs. 1–3.

†*Plegiocidaris coronata*, THIÉRY Bul. soc. sci. Haute-Marne **7** p. 46 fig. 234.—†*P. peroni*, LAMBERT Abh. Schweiz. Pal. Ges. **37** p. 7 pl. i figs. 5–17.

†*P. cureti* **sp. n.** Langhien Beaucaire (Gard), LAMBERT T.c. p. 9 pl. i figs. 18 & 19.—†*P. minor* **sp. n.** Bathonien Var., LAMBERT & THIÉRY Essai nomencl. rais. Ech. fasc. ii p. 131 pl. iv figs. 1–4.

Plexechinus nordenskjöldi, MORTENSEN Schwed. Südpolar-Exped. **6** 4 p. 61 pl. xvii figs. 1–8 pl. xviii figs. 5–12.

†*Polycyphus jauberti*, LAMBERT & THIÉRY Essai nomencl. rais. Ech. fasc. iii pl. vi figs. 19–21.

†*Praescutella cos[s]manni* **sp. n.** Lutétien Ecos Eure, LAMBERT Elbeuf Bul. soc. étud. sci. nat. **1910** p. 6 pl. i figs. 6–8.

†*Prenaster bericus*, FABIANI Roma Mem. Soc. XL **15** p. 131 pl. ii figs. 4 & 5.—†*P. birostratus*, LAMBERT Elbeuf Bul. Soc. étud. sci. nat. **1910** p. 7 pl. i figs. 14–18.

Prionocidaris bispinosa var. n. *aruana* Aru-Ins., DÖDERLEIN Abh. Senckenb. Ges. **34** p. 240 pl. ix figs. 1 & 2.

†*Prototiara lorgi* **sp. n.** Bathonien Isère, LAMBERT & THIÉRY Essai nomencl. rais. Ech. fasc. iii p. 228 pl. vi figs. 8–12.

†*Psammechinus delphinus* p. 41 pl. iii fig. 7, †*P. dubius* p. 33 pl. ii figs. 6–17, †*P. ervaensis* p. 40 pl. iii figs. 12 & 15, †*P. formosus* p. 36 pl. iii figs. 8 & 11, †*P. gauthieri* p. 36, LAMBERT Abh. Schweiz. Pal. Ges. **37**.

†*P. coronalis* Helvétien La Couronne p. 39 pl. iii figs. 18 & 20, †*P. deydieri* Helvétien Bassin du Rhône p. 38 pl. ii figs. 18 & 20 pl. iii figs. 16 & 17, **spp. n.**, LAMBERT T.c.

Pseudabatus **gen. n.** near *Abatus*, *P. nimrodi* **sp. n.** Cape Royds, KOEHLER Brit. Antarct. Exped. **2** p. 60 pl. vii figs. 1–8 pl. viii figs. 7–12.

†*Pseudocidaris thurmanni*, THIÉRY Bul. soc. sci. Haute-Marne **7** p. 46 fig. 247.

†*P. drogiaca* **sp. n.** Bathonien Druyes, LAMBERT & THIÉRY Essai nomencl. rais. Ech. fasc. iii p. 167.

†*Pseudodiadema mendax* **sp. n.** Oxfordien Jura, LAMBERT & THIÉRY T.c. fasc. ii pl. iv figs. 7–10 fasc. iii p. 178.—†*P.* "sp. n." Lower Lias Keynsham, VAUGHAN & TUTCHER Bristol Proc. nat. Soc. **10** p. 53.

†*Pseudopedina tomesi*, RICHARDSON London Q. J. Geol. Soc. **67** p. 48.

†*Pseudopyrina atacina* (olim *atacica*, *ataciana* or *ataxensis*) p. 85 pl. iii figs. 23 & 24, †*P. toucasi* p. 87, LAMBERT Carcassonne Bul. Soc. étud. sci. **22**.—†*P. cotteaui*, VALETTE Auxerre Bul. Soc. Sci. hist. Nat. p. 149.

†*Pygaster morrisi* p. 446, †*P. umbrella* p. 445, HAWKINS Geol. Mag. **8** (C).—†*P. semisulcatus*, HAWKINS Geol. Mag. **8** (B) p. 259 pl. xiii fig. 3; (C) p. 444.—†*P.* sp., FRIČ Arch. Natw. LdDurchf. Böhmen **15** p. 73 fig. 311.—†*P. thomarensis*, CHOFFAT Comm. Serv. geol. Portugal **7** (2) p. 159.

†*Pygomalus kiliani* **sp. n.** ? Bajocien Pelvoux, LAMBERT Grenoble Bul. soc. stat. sci. nat. arts ind. (4) **11** p. 368.

†*Pygorhytinae*, contains genera *Pygorhytis*, *Collyrites*, *Cardiopelta*, *Grasia*, LAMBERT T.c. p. 368.

†*Pygurus lampas*, FRIČ Arch. Natw. LdDurchf. Böhmen **15** p. 74 fig. 315.—†*P. michelini*, HAWKINS Geol. Mag. **8** (B) p. 261 pl. xiii fig. 8.—†*P. royeri*, THIÉRY Bul. soc. sci. Haute-Marne **7** p. 46 fig. 235.

†*Pyrina desmoulinsi* p. 73 fig. 312, †*P. krejčii* p. 74 fig. 313, †*P. megastoma* p. 74, FRIČ Arch. Natw. LdDurchf. Böhmen **15**.—†*P. desmoulinsi*, WANDERER Tierverst. Kreide Sachsen p. 13 pl. ii fig. 8.

†*Rachiosoma menuthiae* **sp. n.** Sénonien Madagascar, LAMBERT & THIÉRY Essai nomencl. rais. Ech. fasc. iii p. 221 pl. vi figs. 1–4.

†*Rhabdechinus* **gen. n.** near *Heliocidaris*, *Cidaris bellone* Agass. is type, LAMBERT Elbeuf Bul. soc. étud. sci. nat. **1910** p. 5 pl. i figs. 9–13.

†*Rhabdocidaris gaillardoti* p. 136, †*R. libyensis* p. 126, †*R. navillei* p. 135, HUME London Q. J. Geol. Soc. **67**.—†*R. major*, CHOFFAT Comm. Serv. Geol. Portugal **7** (2) p. 159.—†*R. orbignyi*, THIÉRY Bul. soc. sci. Haute-Marne **7** p. 46 fig. 246.

Rotula, *R. orbiculus* is type, CLARK H. L. Ann. Mag. Nat. Hist. **7** p. 605.—*R. augusti* p. 24 pl. ii fig. 16, *R. rumphii* p. 24 pl. ii figs. 5–7, KOEHLER Ann. Inst. Océan. Paris **2**.

†*Salenia prestensis*, THIÉRY Bul. Soc. sci. Haute-Marne **7** p. 64 fig. 345.

†*S. brasili* **sp. n.**, LAMBERT Caen Bul. soc. linn. sér. 6 **2** p. 11 pl. i figs. 11–14.—†*S. jerofejewii* **sp. n.** *mucronata*-chalk Simbirsk, LAGHUSEN Fauna of *m.*-chalk of Simbirsk p. 233.

†*Salenidia bonnissenti*, LAMBERT Caen Bul. soc. linn. sér. 6 **2** p. 9 pl. i figs. 9 & 10.

Salmacis belli p. 245 pl. x figs. 12 & 13, *S. virgulata* var. *alexandri* p. 245, DÖDERLEIN Abh. Senckenb. Ges. **34**.

†*Sarsella lamberti* **sp. n.** Eocene Cyrene, GREGORY Q. J. Geol. Soc. **67** p. 675 pl. xlviii fig. 3.

Schizaster fragilis, SÜSSBACH & BRECKNER Wiss. Meersunters. **12** p. 188. —*S.* (*Trippylastèr*) *philippii*, MORTENSEN Schwed. Südpolar-Exped. **6** 4 p. 90 pls. xii xix.

†*S. antarcticus* **sp. n.** Tertiary Antarctic, LAMBERT Schwed. Südpolar-Exped. Bd III No. 11 p. 11 pl. i figs. 47–49.—†*S. ederi* **sp. n.** Eocene Cyrene, GREGORY Q. J. Geol. Soc. **67** p. 674 pl. xlvii fig. 4.

†*Schizechinus chatelcti* **sp. n.** Helvétien Cucuron, LAMBERT Abh. Schweiz. Pal. Ges. **37** p. 43 pl. iii figs. 1 & 3.

Scutella, *S. subrotunda* is type, CLARK H. L. Ann. Mag. Nat. Hist. **7** p. 605.

†*S. melitensis* p. 5 pl. v fig. 2, †*S. subrotundaeformis* p. 5 pl. v fig. 1, STEFANINI Riv. ital. paleont. **17**.—†*S. merriami* p. 86 pl. xxvii fig. 4, †*S. perrini* p. 125 pl. i figs. 1 & 2, ARNOLD & ANDERSON Bull. U. S. Geol. Surv. **398**.—†*S. tenera*, GREGORY Q. J. Geol. Soc. **67** p. 665.

†*S. noetlingi* **nom. n.** for †*S. germanica* Beyrich, STEFANINI Riv. ital. paleont. **17** p. 6.

Scutellidae, scheme of classification STEFANINI Boll. Soc. geol. ital. **30** p. 749.

†*Sismondia logotheti* p. 135, †*S. polymorpha* p. 135, †*S. saemanni* p. 137, †*S. varians* p. 135, HUME London Q. J. Geol. Soc. **67**.—†*S. ? lyelli*, STEFANINI Boll. soc. geol. ital. **30** p. 691.—†*S. ombonii*, FABIANI Roma Mem. Soc. XL **15** p. 119 pl. i fig. 18.

Spatangus purpureus, *S. raschi*, KLINGHARDT Innere Organisation-Seeigel u.s.w. pls.—*S. purpureus*, SÜSSBACH & BRECKNER Wiss. Meersunters. **12** p. 195.

†*S. botto-miccai* **nom. n.** pro *S. manzonei* Botto-Micca, VINASSA DE REGNY Paris Rev. crit. Paleozool. **1** p. 80.

Sphaerechinus granularis, BOGOJAVLENSKIJ Izv. Obšč. liub. jest. **122** p. 30 pls. ii & iii.

Sterechinus neumayeri, MORTENSEN Schwed. Südpolar-Exped. p. 42 pl. vi figs. 7–8 pl. vii figs. 1–2 4.

S. agassizii **nom. n.** for *Echinus margaritaceus* Agass. MORTENSEN T.c. p. 42 pl. vi figs. 9–12 pl. vii fig. 3 pl. xvi figs. 1 7–8 13 15 18.

†*Stereocidaris sceptrifera*, LAMBERT Carcassonne Bul. Soc. étud. sci. **22** p. 60 pl. ii fig. 31.

†*Stomechinus choffati*, CHOFFAT Comm. Serv. geol. Portugal **7** (2) p. 159.—†*S. perlatus*, THIÉRY Bul. soc. sci. Haute-Marne **7** p. 42 fig. 215.

Strongylocentrotus drobachiensis, MORTENSEN Medd. Grønl. **45** p. 275; SÜSSBACH & BRECKNER Wiss. Meersunters. **12** p. 176.—*S. lividus*, KONOPACKI Tyg. lek. Lwów **5** pp. 682 & 691; KONOPACKI Arch. Zellforschg. Leipzig **7** p. 139.

Temnopleurus toreumaticus, DÖDERLEIN Abh. Senckenb. Ges. **34** p. 244.

†*T. neuvillei* **sp. n.** [nom. nud.] Eocene, LAMBERT & THIÉRY Essai nomencl. rais. Ech. fasc. iii p. 218.

†*Tetragramma dumasi* **sp. n.** Aptien Gard, LAMBERT & THIÉRY T.c. fasc. iii p. 188 fasc. ii pl. iv figs. 11–13 [sub. nom. *Diplopodia dumasi*].

†*Thagastea luciani*, HUME London Q. J. Geol. Soc. **67** p. 137.

†*Thierychinus* **gen. n.** of *Stomechinae*, *T. delaunayi* **sp. n.** type Vésulien Saint-Gaultier, LAMBERT Lyon Ann. Soc. Linn. **57** p. 5; LAMBERT & THIÉRY Essai nomencl. rais. Ech. fasc. iii pl. vi figs. 5–7.

†*Thylechinus libycus*, HUME London Q. J. Geol. Soc. **67** p. 138.

†*Toxaster retusus*, THIÉRY Bul. soc. sci. Haute-Marne **7** p. 55 fig. 305.

Toxocidaris gibbosus, THIÉRY Bul. Soc. Nat. Haute-Marne **1** p. 3 pl. i figs. 9 & 10.—*T. tuberculatus*, BENHAM Trans. N. Zealand Inst. **43** p. 160.

Toxopneustes variegatus, HEFFNER Biol. Bull. Wood's Hole Mass. **19** p. 195.

†*Trematopygus faringdonensis*, HAWKINS Geol. Mag. **8** (B) p. 260 pl. xiii fig. 5.

†*Tripneustes parkinsoni* p. 44 pl. ii figs. 21 & 24, †*T. planus* p. 46 pl. ii fig. 1, LAMBERT Abh. Schweiz. Pal. Ges. **37**.

Tripylus excavatus, Mortensen Schwed. Südpolar-Exped. **6** 4 p. 87 pls. xi xii xix.

†*Trumechinus* **gen. n.** near *Temnopleurus*, type †*T. batheri* **nom. nov.**, Lambert & Thiéry Essai nomencl. rais. Ech. fasc. iii p. 218.

†*Tylocidaris clavigera*, Lambert Carcassonne Bul. Soc. étud. sci. **22** p. 61 pl. ii fig. 28.

†*Tylostoma elatius*, Hume London Q. J. Geol. Soc. **67** p. 120.

†*Typocidaris* discussed p. 49, †*T. corbarica* p. 56, †*T. hirudo* p. 54 pl. ii figs. 1 & 3, †*T. pseudopistillum* p. 57 pl. ii figs. 22 & 23, †*T. pseudosceptrifera* p. 59 pl. ii fig. 30, Lambert Carcassonne Bul. Soc. étud. sci. **22**.—†*T. hirudo*, Valette Auxerre Bul. Soc. Sci. hist. nat. p. 133 fig. 4.

†*T. hippuriticum* **sp. n.** Campanien Mte. des Cornes, Lambert Carcassonne Bul. Soc. étud. sci. **22** p. 59 pl. ii figs. 17 & 18.—†*T.* (*Stereocidaris*) *hurci* **sp. n.** Yonne Campanien inf. p. 123 figs. 1 & 2, †*T.* (*S.*) *merceyi* p. 128, †*T.* (*S.*) *pseudohirudo* p. 130 fig. 3, Valette Auxerre Bul. Soc. Sci. hist. nat.

†*Zeugloplcurus colleti* **sp. n.** Turonien Marne, Lambert & Thiéry Essai nomencl. rais. Ech. fasc. iii p. 217 pl. vi figs. 13–18.

†*Zeugopleurus* [sic] *costulatus*, Valette Auxerre Bul. Soc. Sci. hist. nat. p. 140 fig. 7.

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A. (*Stolasterias*) *edmondi* **sp. n.** Kermadec Islands, Benham Trans. N. Zealand Inst. **43** p. 151 figs. 12 & 13.

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†*Goniaster tenuistriatus* **sp. n.** Upper Chalk Simbirsk, LAGHUSEN Fauna of *mucronata*-chalk of Simbirsk p. 231.

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Ophidiaster kermadecensis **sp. n.** Kermadec Islands, BENHAM Trans. N. Zealand Inst. **43** p. 148 figs. 7–11.

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†*P. primaevus*, THIÉRY Bul. soc. sci. Haute-Marne **7** p. 40 fig. 210.

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†*Pleuraster chopi*, SCHOENDORF Hannover Jahresber. Niedersachs. geol. Ver. **1910** p. 107 fig. 4.

Pontaster tenuispinus, GRIEG Campagne Duc d'Orléans 1910 p. 10 pl. i fig. 1; MORTENSEN Medd. Grønl. **45** p. 254; SÜSSBACH & BRECKNER Wiss. Meersunters. **12** p. 201.

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Porania antarctica, KOEHLER Brit. Antarct. Exped. **2** p. 27.—*P. pulvillus*, SÜSSBACH & BRECKNER Wiss. Meersunters. **12** p. 218.

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Psilaster andromeda, SÜSSBACH & BRECKNER Wiss. Meersunters. **12** p. 208.—*P. pectinatus*, FISHER Bull. U. S. Nation. Mus. **76** p. 72 pl. vii figs. 5 & 7 pl. x figs. 1–3 pl. l figs. 3–3c.

Pteraster affinis, KOEHLER Ann. Inst. Océan. Paris **3** p. 27 pl. i figs. 3 & 4.—*P. coscinopeplus* p. 354 pl. cii figs. 1 & 3 pl. cxvi fig. 4, *P. gracilis* p. 349, *P. jordani* p. 350 pl. c fig. 2 pl. ci fig. 1 pl. cxvii figs. 1–1b, *P. marsippus* p. 352 pl. c fig. 1 pl. ci fig. 2 pl. cxv fig. 4 pl. cxvi fig. 1, *P. militaris* p. 346 pl. xcviii figs. 1 & 2, *P. multispinus* p. 359, *P. obscurus* p. 363 pl. cv figs. 1–4 pl. cvi. figs 1 & 2, *P. pulvillus* p. 358 pl. cii figs. 2 & 4, *P. temnochiton* p. 355 pl. ciii figs. 2 & 3 pl. cxv fig. 3 pl. cxvi figs. 3 & 3a, *P. tesselatus* p. 359 pl. civ figs. 1–5, *P. t. arcuatus* **subsp. n.** p. 363 pl. ciii fig. 1, *P. trigonodon* p. 348 pl. xcix figs. 1 & 2 pl. cxv fig. 2 pl. cxvi figs. 2 & 2a, FISHER Bull. U. S. Nation. Mus. **71.**—*P. militaris* p. 260 pl. xvi fig. 2 pl. xvii figs. 1 & 11, *P. pulvillus* p. 261 pl. xiv fig. 3 pl. xvi fig. 3, MORTENSEN Medd. Groul. **45**; SÜSSBACH & BRECKNER Wiss. Meersunters. **12** p. 226.

Pterasteridae, list of genera, FISHER Bull. U. S. Nation. Mus. **76** p. 344.

Remaster gourdoni **sp. n.** [nom. nud.] Antarctic, KOEHLER Paris C. R. Acad. Sci. **153** p. 736.

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S. japonicus **sp. n.** FISHER Bull. U. S. Nation. Mus. **76** p. 330.

Solasteridae, list of genera, FISHER T.c. p. 306.

†*Stellaster glauensis*, FRIČ Arch. Natw. LdDurchf. Böhmen **15** p. 75 fig. 319; WANDERER Tierverst. Kreide Sachsen p. 9 pl. ii fig. 1.

Stichaster albulus, MORTENSEN Medd. Groul. **45** p. 267 pl. xiii figs. 1–6 pl. xiv fig. 8 pl. xv figs. 8–10 pl. xvii fig. 12.—*S. roseus*, SÜSSBACH & BRECKNER Wiss. Meersunters. **12** p. 228.

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Thrissacanthias penicillatus, FISHER Bull. U. S. Nation. Mus. **76** pl. 79 pl. xvii fig. 4 pl. xviii figs. 1–5 pl. iii figs. 1–12.

†*Trichasteropsis cilicia* p. 95 figs. 1–3, †*T. senfti* p. 111, SCHOENDORF Hannover Jahresber. Niedersachs. geol. Ver. **1910.**

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Amphilepis norvegica, SÜSSBACH & BRECKNER Wiss. Meersunters. **12** p. 251.

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Asteronyx loveni, CLARK, H. L., T.c. p. 285; SÜSSBACH & BRECKNER Wiss. Meersunters. **12** p. 262.

Asteroporpa hadracantha **sp. n.** N. Pacific, CLARK, H. L., U. S. Nation. Mus. Bull. **75** p. 280 fig. 142.

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Astrophyton cornutum, *A. pardalis*. CLARK, H. L., U. S. Nation. Mus. Bull, **75** p. 293.

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O. africana **sp. n.** W. Africa, Koehler Ann. Inst. Océan. Paris **2** p. 17 pl. iii figs. 4–5.—*O. brachyaspis* p. 138 fig. 53, *O. brachygenys* p. 135 fig. 51, *O. dyscrita* p. 137 fig. 52, *O. gymnochora* p. 139 fig. 54, *O. pteropoma* p. 134 fig. 50, **spp. n.**, N. Pacific, Clark, H. L., U. S. Nation. Mus. Bull. **75**.

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Ophiocampis pellucida, M'Intosh Edinburgh Proc. R. Phys. Soc. **18** p. 165.

Ophiochiton fastigatus, Clark, H. L., U. S. Nation. Mus. Bull. **75** p. 133.

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Ophiocnemis marmorata, M'INTOSH Edinburgh Proc. R. Phys. Soc. **18** p. 166.

Ophiocnida brachiata, SÜSSBACH & BRECKNER Wiss. Meersunters. **12** p. 258.

Ophiocrasis **gen. n.** near *Ophiocreis*, *O. dictydisca* **sp. n.** N. Pacific, CLARK, H. L., U. S. Nation. Mus. Bull. **75** p. 175 fig. 79.

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Ophiocynodus **gen. n.** near *Ophiomyxa*, *O. coryactes* **sp. n.** N. Pacific, CLARK, H. L., T.c. p. 274 fig. 138.

Ophiodiplax **gen. n.** near *Ophiacantha*, *O. disjuncta* **sp. n.** Cape Royds, KOEHLER Brit. Antarct. Exped. **2** p. 48 pl. vi figs. 9–11 pl. vii fig. 13.

Ophiodoris pericalles **sp. n.** N. Pacific, CLARK, H. L., U. S. Nation. Mus. Bull. **75** p. 177 fig. 80.

Ophioglypha brevispina p. 28 pl. i figs. 7 & 8, *O. hexactis* p. 29 pl. i figs. 5 & 6, KOEHLER Ann. Inst. Paris **3**.—*O. robusta*, MORTENSEN Medd. Gronl. **45** p. 271 pl. xvi fig. 1.—*O. sinensis*, M'INTOSH Edinburgh Proc. R. Phys. Soc. **18** p. 158.

O. flexibilis p. 44 pl. v figs. 1 & 2, *O. resistens* p. 42 pl. vii figs. 9–12 **spp. n.**, Cape Royds, KOEHLER Brit. Antarct. Exped. **2**.—*O. rouchi* **sp. n.** [nom. nud.] Antarctic, KOEHLER Paris C. R. Acad. Sci. **153** p. 736.

Ophiohymen **gen. n.** near *Ophiomyxa*, *O. gymnodiscus* **sp. n.** N. Pacific, CLARK, H. L., U. S. Nation. Mus. Bull. **75** p. 277 fig. 140.

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†*Ophiolepis damesii*, HORWOOD Geol. Mag. London **8** p. 520.

Ophiolepitoplax **gen. n.** near *Ophiosyzygus*, *O. megapora* **sp. n.** N. Pacific, CLARK, H. L., U. S. Nation. Mus. Bull. **75** p. 278 fig. 141.

Ophiologimus **gen. n.** near. *Ophioscolex*, *O. hexactis* **sp. n.** N. Pacific, CLARK, H. L., T.c. p. 252 fig. 123.

Ophiomastix mixta, CLARK, H. L., T.c. p. 256 fig. 126.—*O. venosa*, M'INTOSH Edinburgh Proc. R. Phys. Soc. **18** p. 161.

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Ophioplocus japonicus **sp. n.** N. Pacific, Clark, H. L., U. S. Nation. Mus. Bull. **75** p. 30 fig. 5.

Ophiopteris papillosa, Clark, H. L., T.c. p. 257.

Ophiopteron gymnatum **sp. n.** Mergui Archipelago, M'Intosh Edinburgh Proc. R. Phys. Soc. **18** p. 167 figs.

Ophiopus arcticus, Mortensen Medd. Gronl. **45** p. 273.

Ophioschiza **gen. n.** of *Cladophiurae*, *O. monacantha* **sp. n.** N. Pacific, Clark, H. L., U. S. Nation. Mus. Bull. **75** p. 254 fig. 125.

Ophioscolex glacialis, Grieg Invert. du fond Grönland p. 556; Mortensen Medd. Gronl. **45** p. 274; Süssbach & Breckner Wiss. Meersunters. **12** p. 259.

Ophiosteira senonqui **sp. n.** [nom. nud.] Antarctic, Koehler Paris C. R. Acad. Sci. **153** p. 736.

Ophiostyracium **gen. n.** near *Ophioscolex*, *O. trachyacanthum* **sp. n.** N. Pacific, Clark, H. L., U. S. Nation. Mus. Bull. **75** p. 253 fig. 124.

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Ophiotrochus longispinus **sp. n.** N. Pacific, Clark H. L. U. S. Nation. Mus. Bull. **75** p. 94 fig. 33.

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Pectinura anchista **sp. n.** N. Pacific, Clark H. L. T.c. p. 23 fig. 1.

P. gorgonia, M'INTOSH Edinburgh Proc. R. Phys. Soc. **18** p. 157.

†*Sympterura minueri*, COLLINS Trans. Geol. Soc. Cornwall **13** p. 414.

Trichaster palmiferus, DÖDERLEIN München Abh. Ak. Wiss. **2** (5) p. 62 pl. v fig. 3 pl. ix fig. 5; CLARK H. L. U. S. Nation. Mus. Bull. **75** p. 287.

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†Crinoid ossicles from Upper Cambrian Victoria, CHAPMAN Proc. R. Soc. Vict. **23** p. 309 pl. lix figs. 16 & 17.

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†*Acanthocrinus rex*, KIRK U. S. Nation. Mus. Proc. **41** p. 57.

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†*A. costatus*, LEUTHARDT Liestal Tätigkeitsber. Natf. Ges. 1911 p. 109 pls. vi–viii.—†*A. depressa* p. 80 pl. viii figs. 7 & 8, †*A. thiollieri* p. 78, KIRK U. S. Nation. Mus. Proc. **41**.—†*A.* sp. Batesford Limestone Victoria, CHAPMAN Melbourne Proc. R. Soc. Vict. **22** p. 305 pl. lii fig. 8.

†*Apiocrinus elegans* pl. vi fig. 8, †*A. roissyanus* pl. vi fig. 7, KIRK U. S. Nation. Mus. Proc. **41**.—†*A. parkinsoni* p. 33 fig. 171, †*A. roissyi* p. 46 fig. 233, THIÉRY Bul. soc. sci. Haute-Marne **7**.

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†*Aspidocrinus*, KIRK U. S. Nation. Mus. Proc. **41** p. 63.

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†*Barycrinus tumidus*, SPRINGER Mem. Mus. Comp. Zool. **25** pl. iv fig. 14.

†*Bourgueticrinus aequalis*, †*B. elipticus*, GRIFFITH & BRYDONE Chalk in North Hants p. 30.

†*B. bacillus* p. 31 pl. iv figs. 19 & 20, †*B. elegans* p. 31 pl. iv fig. 18, †*B. fritillus* p. 30 pl. iv figs. 14–17, †*B. papilliformis* p. 31, **spp. n.**, Upper Chalk Hants, GRIFFITH & BRYDONE T.c.

†*Brachiocrinus* p. 48, †*B. nodosarius* pl. v fig. 8, KIRK U. S. Nation. Mus. Proc. **41**.

†*Cactocrinus proboscidialis*, KIRK T.c. pl. v figs. 4 & 5.

†*Calceocrinus*, †*C. interpres*, KIRK T.c. p. 45.

Calometra alecto **sp. n.** Philippine Is., CLARK, A. H., Proc. U. S. Nation. Mus. **39** p. 544.

†*Camarocrinus* is part of a *Scyphocrinus*, KIRK U. S. Nation. Mus. Proc. p. 55.

†*Camptocrinus*, KIRK T.c. p. 58.

Capillaster multiradiata, *C. scutosa*, Clark, A. H., Proc. U. S. Nation. Mus. **39** p. 530.—*C. multiradiata*, Clark A. H. Notes Mus. Jentink **33** p. 177.

†*Carabocrinus*, †*C. radiatus*, Kirk U. S. Nation. Mus. Proc. **41** p. 84.

Catoptometra ophiura **sp. n.** Philippine Is., Clark A. H. Proc. U. S. Nation. Mus. **39** p. 539.

Cenometra emendatrix, Clark A. H. U. S. Nation. Mus. Proc. **40** p. 28.

Chlorometra robusta **sp. n.** Philippine Is., Clark A. H. Proc. U. S. Nation. Mus. **39** p. 558.

†*Cleiocrinus regius*, Springer Canada Geol. Surv. 1911 **15** p. 41 pl. v figs. 7-9.

†*C. laevis* p. 44 pl. v fig. 11, †*C. sculptus* p. 44 pl. v fig. 10, **spp. n.**, Trenton Kirkfield, Springer T.c.

Colobometra perspinosa, Clark A. H. Notes Mus. Jentink **33** p. 188.

C. chadwicki **sp. n.** Suez, Clark A. H. U. S. Nation. Mus. Proc. **40** p. 30.

Comantheria alternans, Clark A. H. Notes Mus. Jentink **33** p. 178.

Comanthina schlegelii, Clark A. H. T.c. p. 179.

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Comaster, type is *C. multiradiata* Lam., Clark U. S. Nation. Mus. Proc. **35** p. 124.—*C. distincta*, Clark A. H. Proc. U. S. Nation. Mus. **39** p. 533.—*C. multifida*, Clark A. H. Bul. Muséum Paris **1911** p. 247.—*C. novaeguineae* p. 178, *C. typica* p. 177, Clark A. H. Notes Mus. Jentink **33**.—*C. typica*, Clark A. H. Fauna Südwest-Australiens **3** p. 453.

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Comaster fruticosus p. 532, *C.* (?) *horridus* p. 533, *C.* (?) *scitulus* p. 534, **spp. n.**, Philippine Is., Clark A. H. Proc. U. S. Nation. Mus. **39**.—*C. taviana* **sp. n.** Philippine Islands, Clark A. H. Proc. U. S. Nation. Mus. **41** p. 172.

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Comatula, type is *C. solaris* Lam., Clark Washington U. S. Nation. Mus. Proc. **35** p. 124.—*C. pectinata*, Clark A. H. Notes Mus. Jentink **33** p. 177.—*C. purpurea*, Clark A. H. Fauna Südwest-Australiens **3** p. 451.

Comatulella brachiolata, Clark A. H. T.c. p. 447.

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C. ignota **sp. n.** Marie Louise Island, Clark A. H. U. S. Nation. Mus. Proc. **40** p. 17 *C. pectinifer* **sp. n.** Christmas Island, Clark A. H. Ann. Mag. Nat. Hist. **7** p. 644.

†*Compsocrinus nuntius*, Želízko, Prag Rozpr. České Ak. Franz. Jos. **20** Cislo 10 p. 6.

Compsometra incommoda, Clark, A. H., Fauna Südwest-Australiens **3** p. 464.

†*Conocrinus didymus* p. 109, †*C. pyriformis* p. 108 pl. i fig. 7, Fabiani Roma Mem. Soc. XL **15**.

†*Cordylocrinus*, †*C. plumosus*, Kirk U. S. Nation. Mus. Proc. **41** p. 58.

Cosmiometra gardineri **sp. n.** Saya de Malha, Clark A. H. U. S. Nation. Mus. Proc. **40** p. 38.—*C. philippinensis* **sp. n.** Philippine Is, Clark A. H. Proc. U. S. Nation. Mus. **39** p. 548.

†*Cotylecrinus decens*, Kirk U. S. Nation. Mus. Proc. **41** p. xi figs. 6–8.

†*Cotylederma*, Kirk T.c. p. 114.

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†*Ctenocrinus renanus*, COLLINS Trans. Geol. Soc. Cornwall **13** p. 412.

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†*C. jewetti* var. *kentuckiensis* [?] **var. n.**, SPRINGER T.c. pl. iii figs. 8 & 9.

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†*Diamenocrinus jouani*, KIRK U. S. Nation. Mus. Proc. **41** p. 57.

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†*Dimerocrinus* revised p. 117, †*D. spiniferus* **sp. n.** Hamilton Group Indiana p. 119 pl. iii fig. 11, SPRINGER Mem. Mus. Comp. Zool. **25**.

†*Dolatocrinus*, KIRK U. S. Nation. Mus. Proc. **41** p. 46.

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†*Edriocrinus* p. 112, †*E. pyriformis* p. 112 pl. xi fig. 9, †*E. sacculus* p. 112 pl. xi figs. 14 & 15, KIRK U. S. Nation. Mus. Proc. **41**.

†*E. dispansus* **sp. n.** Silurian Tennessee, KIRK T.c. p. 112 pl. xi figs. 1 & 2.

†*Encrinus liliiformis*, THIÉRY Bul. Soc. Sci. Haute-Marne **7** p. 12 fig. 32.

Endoxocrinus **gen. n.** of *Pentacrinitidae*, type is *Encrinus parrae* Gervais, CLARK Washington U. S. Nation. Mus. Proc. **35** p. 131.

†*Entrochus primus*, ŽELÍZKO Sborn. mest. hist. mus. Pizni **2** p. 2 fig. 1.

Epimetra **gen. n.** of *Pentiometridae*, *E. nympha* **sp. n.** Philippine Is., CLARK Proc. U. S. Nation. Mus. **39** p. 542.

†*Eucalyptocrinus*, KIRK U. S. Nation. Mus. Proc. **41** p. 62.

†*Eudesicrinus* p. 114, †*E. mayalis* pl. xi figs. 3–5, KIRK T.c.

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†*Eupachycrinus quatuordecembrachiatus*, SPRINGER Mem. Mus. Comp. Zool. **25** pl. iv fig. 17.

†*Extracrinus babeani*, THIÉRY Bul. soc. sci. Haute-Marne **7** p. 28 fig. 136.—†*E. callenoti* p. 79 pl. v figs. 1–3, †*E. durgniesi* p. 79 pl. viii fig. 5, KIRK U. S. Nation. Mus. Proc. **41**.

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†*Glyptocrinus*, †*G. schafferi* is young of †*G. dyeri*, KIRK U. S. Nation. Mus. Proc. **41** p. 44.—†*G. basalis*, WADE London Q. J. Geol. Soc. **67** p. 429.

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†*Graphiocrinus encrinoides* SPRINGER Mem. Mus. Comp. Zool. **25** pl. v figs. 4 & 5.

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H. M. WOODCOCK.

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Corrigendum Titles of 1910.

The Title 309 in Vol. **47** Verm. p. 16 gave a reference to the wrong work. The following should be substituted:—

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(*b*) Trematoda.

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Cholepotes gen. n. für *Distomum ovofarctum* Odhn.; ODHNER Res. Swedish Zool. Exped. Egypt Pt. **4** No. 23 A p. 16 pl. ii fig. 4.

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Dasymetra **gen. n.** (*Lepodermatidae*) *conferta* **sp. n.**, from *Tropidonotus rhombifer*, descr.; NICOLL Proc. Zool. Soc. **1911** pp. 683–686 pl. xxviii figs. 8–10.

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Polychaeta (*Alciopinae, Tomopteridae* and *Typhloscolecidae*), coasts of Ireland, descriptive notes; SOUTHERN Fish. Ireland Sci. Invēstig. **1910** No. III pp. 1–37 3 pls.

Polychaeta from the Dry Tortugas, Florida; TREADWELL Bull. Amer. Mus. Nat. Hist. **30** pp. 1–12 29 text-figs.

The Annelids of the family *Arenicolidæ* of North and South America, with key to American species; ASHWORTH Smithsonian Inst. Proc. U. S. Nation. Mus. **39** (No. 1772) pp. 1–32 14 text-figs.

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Annélides Polychètes du golfe Persique recueillis par M. N. Bogoyawlensky; FAUVEL Arch. zool. Paris (sér. 5) **6** pp. 353–439 pls. xix–xxi.

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Arenicola glacialis Murdoch, Alaska, description; ASHWORTH Smithsonian Inst. Proc. U. S. Nat. Mus. **39** pp. 24–31 text-figs. 10–14.—*A. loveni* Kinberg, from Saldanha Bay, South Africa, described; ASHWORTH Ark. Zool. **7** No. 5 19 pp. 1 pl. also in Ann. S. Afric. Mus. **11** pp. 2–25 pl. i.

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†*Autodetus apicatus* **sp. n.**, Devonic-Wisconsin; CLELAND Wisconsin Geol. Nat. Hist. Surv. Bull. No. **21** p. 47 pl. iv fig. 4.

†*Aysheaia* **gen. n.** p. 116, *pedunculata* **sp. n.** p. 117 pl. xxiii figs. 8 & 9, Cambrian, British Columbia; WALCOTT Smithsonian Inst. Misc. Collect. **57** No. 5 (Pub. 2014).

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†*Nereites bernayi* **sp. n.**, trail of; DE VIS Ann. Queensland Mus. **10** pp. 12–14.

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†*Serpula felisii* **sp. n.** Unteres Tertiär, Barcelona; OPPENHEIM Zs. D. geol. Ges. **1911** Monatsber.—*S. verrucosa* p. 259 pl. ii fig. 1, *africana* p. 259 pl. ii fig. 2, **spp. n.**; DARESTE DE LA CHAVANNE Bull. Carte géol. d'Algérie Ser. 4 No. 4 **1910.**—*S.* (?) *infinitesima* **sp. n.** p. 176 2 figs., Carboniferous, Magdalen Is.; BEEDE N. Y. St. Mus. Bull. No. **149.**

†*Serpulopsis* **gen. n.** type *Serpula insita*, Carboniferous, Oklahoma; GIRTY New York N.Y. Ann. Acad. Sci. **21** p. 124.

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†*Worthenella* **gen. n.** p. 125, *cambria* **sp. n.** p. 126 pl. xxii fig. 2, Cambrian, British Columbia; WALCOTT T.c.

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e) Echiuroidea (Vacant).

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†*Banffia* gen. n. (*Ottoidae*) *constricta* sp. n., Cambrian, British Columbia; Walcott Smithsonian Inst. Misc. Collect. 57 No. 5 (Pub. 2014) p. 130 pl. xxi figs. 5 & 6.

†*Oesia* gen. n. (*Pikaiidae*) p. 132, *disjuncta* sp. n., Cambrian, British Columbia; Walcott T.c. p. 133 pl. xx figs. 3–5.

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VII. BRACHIOPODA AND BRYOZOA

ARRANGED BY

F. W. EDWARDS.

(a) BRACHIOPODA

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†*Cyclocoelia crassiplicata* **sp. n.** United States Orodovician, FOERSTE Granville Ohio Bull. Sci. Lab. Denison Univ. **16** p. 36.

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H. B. PRESTON.

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†*C. decaptyx* **sp. n.** Panama Oligocene, BROWN & PILSBRY Philadelphia Proc. Acad. Nat. Sci. **63** p. 346.

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†*C. baumgärtneri* **sp. n.** Switzerland Cretaceous, BÖHM & HEIM Basel Abh. Schweiz. Pal. Ges. **36** 1909 p. 43.

†*C. gerassimowi* **sp. n.** Fischschiefer von Transbaikalien, REIS Explor. géolog. chem. de fer Sibérie St. Peterburg **29** 1910 pp. 42–43 42–43.

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†*D. texana* **sp. n.** Texas Eocene, Aldrich Bull. Amer. Paleont. No. **22** p. 12.

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†*Emmericia lóczyi* **sp. n.** Mencshely Ungarn Pliocene, Kormos Res. wissenschaftl. Untersuchungen d. Balatonsees Anh. Pal. **4** Wien pp. 10–11.

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†*F. pungens* **sp. n.** Germany Lower Cretaceous, Wollemann Berln Jahrb. geol. Landesanst. **29** II 1908 [1909] pp. 182–183.

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†*Glauconia mariae, brevis,* **spp. n.,** France Cretaceous, MAZERAN Lyon Ann. soc. linn. **58** pp. 155–156 160–162.

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†*Hormotoma subcarinata* **sp. n.** Michigan, *tricarinata* **spp. n.,** Michigan Silurian, GRABAU Michigan Geol. Biol. Surv. Pub. Geol. Ser. 1 pp. 173 175.

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†*Litiopa palaeosargassina* **sp. n.** Florida Oligocene, MAURY Bull. Amer. Paleont. Ithaca N.Y. **4** (No. 21) 1910 pp. 146–147.

Lorenella antarctica **sp. n.** Antarctic, SMITH National Antarctic Exp. 1901–4 London **1907** (Gastropoda) p. 10.

L. australina **sp. n.** Antarctic, HEDLEY Brit. Antarctic Exp. **2** London **1911** p. 5.

†*Loxonema parra* **sp. n.** Michigan, Silurian, GRABAU Michigan Geol. Biol. Surv. Pub. Geol. Ser. 1 p. 176.

†*Lucapinella cornelliana* **sp. n.** Florida Oligocene, MAURY Bull. Amer. Paleont. Ithaca N.Y. **4** (No. 21) 1910 p. 150.

Lucidella densesplicata St. Lucia, *kobelti* Jamaica, *holoserica* Barbados, **spp. n.**, WAGNER in MARTINI & CHEMNITZ Conch. Cab. **1911** pp. 348–351.

Lyria depereti var. *fusiformis* **sp. & var. n.** Algeria Tertiary, DARESTE DE LA CHAVANNE Thèse fac. sci. Lyon, and Bulletin de la Carte Geologique d'Algerie (sér. 4) No. 4 **1910** pp. 282 & 283.

†*Lyrischapa* **gen. n.** (*Volutidae*) *harrisi* **sp. n.** Mississippi Eocene, ALDRICH Bull. Amer. Paleont. No. **22** p. 11.

Manaria thurstoni Smith figured Indian Ocean, ANNANDALE & STEWART Illustrations of the Zoology of the R.I.M. Survey Ship "Investigator" Calcutta **1910** pt. **6** pl. xxi.

Mangilia schoutenensis **sp. n.** Tasmania, MAY Hobart Proc. R. Soc. Tasmania **1910** p. 393.

†*M. clarae, websteri, isabellae, nemorensis, ramondi, strabonis, tarri,* **spp. n.** Florida Oligocene, MAURY Bull. Amer. Paleont. Ithaca N.Y. **4** (No. 21) 1910 pp. 129–131.

Margarita obscura **var. n.** *islandica* Iceland, ODHNER Ark. Zool. **7** No. 4 p. 6.

†*Margaritella canoidea, ganzi, lensiformis,* **spp. n.**, Obere Kreide Kurfirsten, BÖHM & HEIM Basel Abh. Schweiz. Pal. Ges. **36** 1909 pp. 33–34.

Marginella virgo, rufolineata, abyssicola, **spp. n.**, Malay Archipelago, SCHEPMAN Résult. Explor. Siboga Mon. **49**[1]d pp. 259–260.

M. clandestina Brocchi monstr. *sinistrorsum,* DAUTZENBERG J. conchyliol. Paris **58** p. 209.

M. fulgurata **sp. n.** South Australia, HEDLEY Fisheries Commonwealth of Australia **1911** pp. 110–111.

M. hedleyi, lodderae, dentiens, rescoi albomaculata, altilabra, gracilis, gatliffi, gabrieli, consobrina, connectans, indiscreta, microscopica, **spp. n.**, Tasmania, MAY Hobart Proc. R. Soc. Tasmania **1910** pp. 381–389.

†*M. frechi* **sp. n.** Tehuantepec Pliocene, TOULA Wien Jahrb. Geol. Rchs-Anst. **61.**

†*M. chipolana, cornelliana, denticulatoides,* **spp. n.**, Florida Oligocene, MAURY Bull. Amer. Paleont. Ithaca N.Y. **4** (No. 21) 1910 pp. 133–134.

†*M. gatunensis, leander,* **spp. n.**, Panama Oligocene, BROWN & PILSBRY Philadelphia Proc. Acad. Nat. Sci. **63** p. 347.

Marginellopsis serrei **gen. & sp. n.** Cuba, GERMAIN Bul. Muséum Paris **1911** pp. 240–243.

Megadenus **gen. n.** near *Mucronalia holothuricola* **sp. n.** Bahama-Inseln, ROSÉN Lund Univ. Årsskr. N.F. **6** Afd. 2 No. 4 p. 18.

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M. granifera Lk. **var. n.** *papuana* German New Guinea, SOOS Ann. Hist.-Nat. Mus. Nat. Hung. Budapest **9** [illegible]350.

M. goramensis, stalkeri, keiensis, **spp. n.**, Malay Archipelago, PRESTON London Proc. Malac. Soc. **9** pp. 228–229.

†*M.? lusitanica* **sp. n.** Portugal Cainozoic, ROMAN Néogène Continenta. dans la Basse Vallée du Tage Comml Serv. Geol. Portugal **1907** pp. 85–86.

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†*M. boettgeri* **sp. n.** Umgebung Plattensee Tertiary, HALAVÁTS Res. wissenschaftl. Untersuchungen d. Balatonsees Anh. Pal. **4** Wien p. 49.

†*M. callosa* Al. Braun **var.** *elongata* **var. n.** Germany Cainozoic, JOOSS Wiesbaden Jahrb. Ver. Natk. **64** p. 72.

Mesalia bardonensis, carinifera, spp. n., Algeria Tertiary, DARESTE DE LA CHAVANNE Thèse fac. sci. Lyon. and Bulletin de la Carte Geologique d'Algerie (sér. 4) No. 4 **1910** p. 273.

†*Metula gabbi* sp. n. Panama Oligocene, BROWN & PILSBRY Philadelphia Proc. Acad. Nat. Sci. **63** p. 351.

Mitra haycocki sp. n. Bermuda, DALL & BARTSCH Proc. U. S. Nation. Mus. **40** p. 277.

M. stadialis sp. n. South Australia, HEDLEY Fisheries Commonwealth of Australia **1911** p. 112.

M. biconica sp. n. "Porcupine" Exp. 1870 Station 24, SYKES London Proc. Malac. Soc. **9** p. 334.

M. millepunctata, sibogae, albocoronata, simplicissima with var. *glabra, abyssicola,* spp. n., Malay Archipelago, SCHEPMAN Résult. Explor. Siboga Mon. **49**[1]**d** pp. 268–270 272–273.

†*M. dariensis* sp. n. Panama Oligocene, BROWN & PILSBRY Philadelphia Proc. Acad. Nat. Sci. **63** p. 346.

M. cheniourensis, acarensis, spp. n., Algeria Tertiary, DARESTE DE LA CHAVANNE Thèse fac. sci. Lyon. and Bulletin de la Carte geologique d'Algerie (sér. 4) No. 4 **1910** pp. 283 & 284.

†*M. almagrensis* sp. n. Tehuantepec Pliocene, TOULA Wien Jahrb. Geol. RchsAnst. **61.**

†*M. barnardensis, scopuli, mytiloides berkeyi,* spp. n., Florida Oligocene, MAURY Bull. Amer. Paleont. Ithaca N.Y. **4** (No. 21) 1910 pp. 136–137.

†*M.* (*Cancilla*) *dalli* sp. n. Mexico Miocene, EUGERRAND & URBINA Mexico Bol. Soc. geol. **6** 1910 p. 127.

Mitromorpha multicostata, solida, spp. n., Tasmania, MAY Hobart Proc. R. Soc. Tasmania **1910** pp. 394–395.

Moulinsia papuensis sp. n. German New Guinea, SOOS Ann. Hist.-Nat. Mus. Nat. Hung. Budapest **9** pp. 347–348.

Murex ternispina var. *rufolirata* var. n. Malay Archipelago, SCHEPMAN Résult. Explor. Siboga Mon. **49**[1]**d** p. 342.

†*M. polynematicus, M.* (*Phyllonotus*) *gatunensis,* spp. n., Panama Oligocene, BROWN & PILSBRY Philadelphia Proc. Acad. Nat. Sci. **63** pp. 353–354.

†*M. virginiae, vaughani, veatchi,* spp. n., Florida Oligocene, MAURY Bull. Amer. Paleont. Ithaca N.Y. **4** (No. 21) 1910 pp. 143–144.

†*M.* (*Trophon*) *werneri* sp. n. Tehuantepec Pliocene, TOULA Wien Jahrb. Geol. RchsAnst. **61.**

†*Muricopsis oppenheimi* sp. n. Italy Eocene, FABIANI Roma Mem. Soc. xl **15** 1908 p. 169.

†*Nacella* (*Anisomyon*) *ovata* sp. n. Cretaceous Ross-Island, WILCKENS Schwed. Südpolar-Exped. **3** 12 p. 71.

Nassa exulata sp. n. Christmas Island Indian Ocean, SMITH London Proc. Malac. Soc. **9** pp. 316–317.

Nassa flammulata, elegantula, ovoidea with var. *brevis, macrocephala, cebricostata, multipunctata, granosocostata elegans* var. *fulgurans,* spp. & varr. n., Malay Archipelago, SCHEPMAN Résult. Explor. Siboga Mon. **49**[1]**d** pp. 314–318 321 325.

†*N. berthae, dalli, harrisi, veatchi,* spp. n., Florida Oligocene, MAURY Bull. Amer. Paleont. Ithaca N.Y. **4** (No. 21) 1910 pp. 139–141.

†*N.* (*Uzita ?*) *villarelloi* sp. n. Mexico Miocene, EUGERRAND & URBINA Mexico Bol. Soc. geol. **6** 1910 p. 128.

†*Nassarina isthmica* Böse var. n. *elongata* Tehuantepec Pliocene, TOULA Wien Jahrb. Geol. RchsAnst. **61.**

Natica nigromaculata, joubini, spp. n. South Sandwich Islands [Antarctic], LAMY Bul. Muséum Paris **1911** pp. 23 24.

N. godfroyi sp. n. Antarctic, LAMY Bul. Muséum Paris **1910** p. 322.

N. tenuistriata sp. n. Nova Zembla, DAUTZENBERG & FISCHER Bul. Muséum Paris **1911** pp. 144–145, and J. Conchyliol. Paris **59** pp. 26–27.

N. tenuistrata sp. n. Nova Zembla, DAUTZENBERG & FISCHER J. conchyliol. Paris **59** pp. 26–27.

N. simulans Smith figured Indian Ocean, ANNANDALE & STEWART Illustrations of the Zoology of the R.I.M. Survey Ship "Investigator" Calcutta **1910** pt. **6** pl. xxii.

†*N. judsoni* sp. n. Florida Oligocene, MAURY Bul. Amer. Paleont. Ithaca N.Y. **4** (No. 21) 1910 p. 147.

†*N. protense* **sp. n.** Obere Kreide Kurfirsten, Böhm & Heim Basel Abh. Schweiz. Pal. Ges. **36** 1909 pp. 39–40.

†*Naticopsis tayloriana* **sp. n.** Idaho Carboniferous, Girty Washington Bull. U. S. Geol. Surv. **436** p. 51.

†*Natiria sublitistriata* **sp. n.** Ungarn Trias, Frech Ergebn. d. wiss. Forsch. d. Balatonsees I Bd I Teil Palaeont. Anh. III Bd Budapest **1911** pp. 3–4.

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Neoconcha vestita **gen. & sp. n.** Antarctic, Smith National Antarctic Exp. 1901–4 London **1907** (Gastropoda) p. 6.

Neocyclotus fonticulus **sp. n.** Grand Cayman Isd., Preston London Proc. Malac. Soc. **9** p. 359.

Neptunea (*Sipho*) *attenuata* (Jeffreys) **figured** "Porcupine" Exp., 1869, Stations 20, 28, 30, 43, *N.* (*S.*) *pertenuis* **sp. n.**, Stations 51, 65, Sykes London Proc. Malac. Soc. **9** pp. 337 339–340.

†*Nerinea subhodeneggeri* **sp. n.** Stramberg Mähren Jurassic, Blaschke Wien Ann. Nat. Hist. Hofmus. **25.**

†*Nerita* (*?*) *crassecallosa* **sp. n.** Stramberg Mähren Jurassic, Blaschke Wien Ann. Nat. Hist. Hofmus. **25.**

†*Neritina lamellifera* **sp. n.** Schwarzes Meer., Milaszewicz Ann. mus. zool. Ac. sc. **16** pp. 521–522.

†*N. unidenta* **sp. n.** Alabama Eocene, Aldrich Bull. Amer. Paleont. No. **22** p. 13.

Newtoniella misapplied generic name, Iredale London Proc. Malac. Soc. **9** pp. 260–261.

†*Niso aldrichi* **sp. n.** Florida Oligocene, Maury Bull. Amer. Paleont. Ithaca N.Y. **4** (No. 21) 1910 p. 149.

Nodulus kelseyi **sp. n.** California, Bartsch Proc. U. S. Nation. Mus. **41** p. 290.

N. kyskensis **sp. n.** Alaska, Bartsch Proc. U. S. Nation. Mus. **41** p. 291.

Ocinebra Smithi, fuscofrondosa, **spp. n.**, Malay Archipelago, Schepman Résult. Explor. Siboga Mon. **49**[1]**d** pp. 349–350.

Odostomia victoriae **sp. n.** Victoria, Gatliff & Gabriel Melbourne Proc. R. Soc. Vict. N.S. **24** p. 187.

O. (*Chrysallida*) *nioba* **sp. n.** Bermuda Dall & Bartsch Proc. U. S. Nation. Mus. **40** p. 286.

†*O.* (*Pyrgulina*) *claibornensis*, *T.* (*Pyrgiscus*) *agrestis*, **spp. n.**, Alabama Eocene, Aldrich Bull. Amer. Palaeont. No. **22** pp. 9–10.

Odostomiopsis major **sp. n.** Antarctic, Hedley Brit. Antarctic Exp. **2** London **1911** p. 6.

†*Olivella diadematophoros* **sp. n.** Florida Oligocene, Maury Bull. Amer. Palaeont. Ithaca N.Y. **4** (No. 21) 1910 p. 133.

Olivia, nomenclature of, Brusina Sp. Riv. ital. sc. nat. Siena **28** 1908 pp. 30–35 61–64.

Olividæ, nomenclature of, Johnson Nautilus Boston Mass. **24** pp. 121–124.

Omalaxis misapplied generic name, Iredale London Proc. Malac. Soc. **9** pp. 253–257.

Onoba bassiana **sp. n.** Tasmania, Hedley Fisheries Commonwealth of Australia **1911** p. 108.

†*Orthonychia compressa* **sp. n.** Arkansas Carboniferous, Girty New York N.Y. Ann. Acad. Sci. **20** p. 232.

†*Oxydiscus venatus* **sp. n.** Arkansas Carboniferous, Girty New York N.Y. Ann. Acad. Sci. **20** p. 231.

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Palaina birói, adelpha, papuanorum, **spp. n.**, German New Guinea, Soos Ann. Hist.-Nat. Mus. Nat. Hung. Budapest **9** pp. 348–349.

Paludestrina bermudensis **sp. n.** Bermuda, Vanatta Philadelphia Pa. Proc. Acad. Sci. **62** p. 671.

†*P. plana* **sp. n.** Georgia Pliocene Aldrich Nautilus Boston Mass. **24** p. 139.

†*Patella* (*Helcion*) *pseudovalfinensis* **sp. n.** Stramberg Mähren Jurassic, Blaschke Wien Ann. Nat. Hist. Hofmus. **25.**

†*Patellostium lævigatum* **sp. n.** Arkansas Carboniferous, GIRTY New York N.Y. Ann. Acad. Sci. **20** p. 231.

†*Perissoptera Nordenskjöldi* **sp. n.** Cretaceous Antarctica, WILCKENS Schwed. Südpolar-Exped. **3** 12 p. 83.

Peristernia incerta **sp. n.** Malay Archipelago, SCHEPMAN Résult. Explor. Siboga Mon. **49**[1]**d** pp. 297–298.

P. venusta **sp. n.** Christmas Island Indian Ocean, SMITH London Proc. Malac. Soc. **9** p. 316.

†*Perplicaria prior* **sp. n.** Florida Oligocene, MAURY Bull. Amer. Paleont. Ithaca N.Y. **4** (No. 21) 1910 pp. 135–136.

†*Persicula calhounensis, dryados,* **spp. n.,** Florida Oligocene, MAURY Bull. Amer. Paleont. Ithaca N.Y. **4** (No. 21) 1910 pp. 134–135.

Phasianella fasciolaris **sp. n.** Mediterranean Coast of France, DAUTZENBERG J. conchyliol. Paris **58** pp. 207–208

P. kraussi **sp. n.** S. Africa, SMITH London Proc. Malac. Soc. **9** pp. 313–314.

Phos. minutus **sp. n.** Malay Archipelago, SCHEPMAN Résult. Explor. Siboga Mon. **49**[1]**d** pp. 306–307.

†*P. subsemicostatus* **sp. n.** Panama Oligocene, BROWN & PILSBRY Philadelphia Proc. Acad. Nat. Sci. **63** p. 350.

†*P. semilineatum* **sp. n.** Panama canal Upper Tertiary, TOULA Wien Jahrb. Geol. RchsAnst. **61.**

†*P. watsoni* **sp. n.** Florida Oligocene, MAURY Bull. Amer. Paleont. Ithaca N.Y. **4** (No. 21) 1910 pp. 138–139.

Photinula (*Kingotrochus*) *lahillei* von Ihering var. *carinata* **var. n.** S. Georgia [Antarctic], LAMY Bul. Muséum Paris **1911** p. 25.

Pisania scoutanica **sp. n.** Tasmania, MAY Hobart Proc. R. Soc. Tasmania **1910** pp. 389–390.

†*Platyceras subelegans* **sp. n.** Arkansas Carboniferous, GIRTY New York N.Y. Ann. Acad. Sci. **20** p. 232.

†*P. pronum* **sp. n.** Tennessee Silurian, FOERSTE Granville Ohio Bull. Sci. Lab. Denison Univ. **14** p. 65.

†*Pleuronotus subangulata* **sp. n.** Michigan Silurian, GRABAU Michigan Geol. Biol. Surv. Pub. Geol. Ser. 1 p. 185.

Pleurotoma (*Surcula*) *nereis* Smith, *agalma* Smith, *P.* (*Bathytoma*) *urania* Smith, figured, Indian Ocean, ANNANDALE & STEWART Illustrations of the Zoology of the R.I.M. Survey Ship "Investigator" Calcutta **1910** pt. 6 pl. xxi.

†*P. boadiceoides, kempi,* **spp. n.,** Florida Oligocene, MAURY Bull. Amer. Paleont. Ithaca N.Y. **4** (No. 21) 1910 pp. 124–125.

†*P.* (*Bathytoma*) *maricana* **sp. n.** Alabama Eocene, ALDRICH Bull. Amer. Paleont. No. **22** p. 6.

†*P.* (*Drillia*) *dalli* **sp. n.,** *gatunensis* **var. n.** Panamacanal Upper Tertiary, TOULA Wien Jahrb. Geol. RchsAnst. **61.**

†*P.* (*Clathurella?*) *christiniana trilineata, P.* (*Glyphostoma*) *mexicana, P.* (*Surcula*) *st. lucreciana,* **spp. n.,** Tehuantepec Pliocene, TOULA Wien Jahrb. Geol. RchsAnst. **61.**

†*P.* (*Eopleurotoma*) *tifechensis, P.* (*Hemipleurotoma*) *Khremissaensis,* **spp. n.,** Algeria Tertiary, DARESTE DE LA CHAVANNE Thèse fac. sci. Lyon and Bulletin de la Carte Geologique d'Algerie (sér. 4) No. 4 **1910** pp. 289–290.

†*Pleurotomaria idahoensis* **sp. n.** Wyoming and Idaho Carboniferous, GIRTY Washington Bull. U. S. Geol. Surv. **436** pp. 45–46.

†*P. cotovni* **sp. n.** Roumania Jurassic, SIMIONESCU Bucuresci Publ. Adamachi Ac. Romana **25** 1910 p. 23.

†*P. Larseniana* **sp. n.** Cretaceous Seymour-Island, WILCKENS Schwed. Südpolar-Exped. **3** 12 p. 73.

†*P. dictyon, shulleyi, hildesheimensis, schrammeni, palatii,* **spp. n.,** Germany Lower Cretaceous, WOLLEMANN Berlin Jahrb. geol. Landesanst. **29** II 1908 [1909] pp. 168–171.

†*P.* (*Leptomaria*) *bieskidensis* **sp. n.** Stramberg Mähren Jurassic, BLASCHKE Wien Ann. Nat. Hist. Hofmus. **25.**

†*Pleurotrochus* **gen. n.** genotype *tricarinatus* **sp. n.** Michigan Silurian, GRABAU Michigan Geol. Biol. Surv. Pub. Geol. Ser. 1 pp. 179–180.

Polinices pila, bathygraphe, spp. n., Japan, PILSBRY Nautilus Boston Mass. 25 pp. 32–34.

Pontiothauma minus Smith, *pacci* Smith figured Indian Ocean, ANNANDALE & STEWART Illustrations of Zoology by R. I. M. Survey Ship "Investigator" Calcutta 1910 Pt. 6 pl. xxi.

†*Potamides saltillensis, cancelloides*, spp. n., Georgia Pliocene, ALDRICH Nautilus Boston Mass. 24 pp. 132 138–139.

†*P. roumaini, caobascnsis*, spp. n., Haiti Oligocene, PILSBRY Philadelphia Proc. Acad. Nat. Sci. 62 pp. 487–488.

†*P. cordieri* mut. *typum* mut. n. France Eocene, WOOD New York N.Y. Ann. Acad. Sci. 20 p. 61.

†*P.* (*Tympanotonus*) *bicircumdatus, soncnsis, P.* (*T.*) *margaritaceus* Brocchi varr. *simplicior* and *typicocalcarata*, (*Pirenella*) *plicatus* Brug. var. *picta, inconstans* var. *deminuta*, spp. & varr. n., France Upper Tertiary, VIGNAL J. conchyliol. Paris 58 pp. 166–172 174 176.

†*Potamidiopsis tricarinata* mutt. *baucis, brontes, cromas, doris, eris, fatua*, mutt. n., *crassinoda* sp. n. France Eocene, WOOD New York N.Y. Ann. Acad. Sci. 20 pp. 68–69 73–74.

†*Promathildia demoncnsis* sp. n. Italy Jurassic, GEMMALLARO Palermo Giorn. sc. nat. econ. 28 pp. 235–236.

Pseudomalaxis macandrewi nom. n. for *Bifrontia zanclea* Philippi, IREDALE London Proc. Malac. Soc. 9 p. 254.

†*Pseudomelania Haeberlei, Moravica*, spp. n., Stramberg Mähren Jurassic, BLASCHKE Wien Ann. Nat. Hist. Hofmus. 25.

†*Pteroceras Zitteli* sp. n. Stramberg Mähren Jurassic, BLASCHKE Wien Ann. Nat. Hist. Hofmus. 25.

Pterocyclus mellendorffii sp. n. German New Guinea, KOBELT in MARTINI & CHEMNITZ Conch. Cab. 1911 pp. 744–745.

Puncturella fumarium sp. n. South Australia, HEDLEY Fisheries Commonwealth of Australia 1911 pp. 100–101.

Pupina minuta sp. n. German New Guinea, SOOS Ann. Hist.-Nat. Mus. Nat. Hung. Budapest 9 p. 347.

†*Purpuroidea moravica* sp. n. Stramberg Mähren Jurassic, BLASCHKE Wien Ann. Nat. Hist. Hofmus. 25.

†*Pyrgula incisa* Fuchs var. n. *pannonica* Umgebung Plattensee Pliocene, LÖRENTHEY Res. wissenschaftl. Untersuchungen d. Balatonsees Anh. Pal. 4 Wien pp. 142–143.

†*Pyrgulifera helvetica* sp. n. Obere Kreide Kurfirsten, BÖHM & HEIM Basel Ahh. Schweiz. Pal. Ges. 36 1909 pp. 41–42.

Quoyia misapplied generic name, IREDALE London Proc. Malac. Soc. 9 p. 259.

†*Rimella aldrichi* sp. n. Florida Oligocene, MAURY Bull. Amer. Paleont. Ithaca N.Y. 4 (No. 21) 1910 p. 145.

Ringicula meridionalis, semisculpta, spp. n., South Australia, HEDLEY Fisheries Commonwealth of Australia 1911 pp. 112–113.

Rissoia fraudulenta, gelida, deserta, glacialis, spp. n., Antarctic, SMITH National Antaretic Exp. 1901–4 London 1907 (Gastropoda) pp. 9–10.

R. lockyeri, verconiana, spp. n., South Australia, HEDLEY Fisheries Commonwealth of Australia 1911 pp. 103–104.

Scala (vide etiam *Scalaria*) *antarctica* sp. n. Antarctic, SMITH National Antarctic Exp. 1901–4 London 1907 (Gastropoda) p. 8.

S. stigmatica, kamakurana, sagamiensis, spp. n., Japan, PILSBRY Nautilus Boston Mass. 25 pp. 34 41–42.

S. pretiosa (Linn.) var. *multivaricifera* var. n. China ?, SMITH Nautilus Boston Mass. 25 pp. 56–57.

S. (*Hemiacirsa*) *vayssièrei* sp. n. Mediterranean Coast of France, DAUTZENBERG J. conchyliol. Paris 58 pp. 205–206.

†*S. virginiae* sp. n. Florida Oligocene, MAURY Bull. Amer. Paleont. Ithaca N.Y. 4 (No. 21) 1910 pp. 147–148.

†*S. vidali, S.* (*Gyroscala*) *vasconiensis* spp. n., France Miocene, DE BOURY J. Conchyliol. Paris 58 pp. 255–259.

Scalaria plicata Lk., nomenclature of, DE BOURY J. conchyliol. Paris 58 pp. 348–349.

†*S.* (vide etiam *Scala*) *scala, hanthati, menzeli*, spp. n., Germany Lower Cretaceous, WOLLEMANN Berlin Jahrb. geol. Landesanst. **29** II 1908 [1909] pp. 176–178.

Scalidæ, Eligantiscala, Filiscala, Papuliscala, Textiscala, subgenn. n., DE BOURY J. conchyliol. Paris **58** pp. 216 219 220 222.

†*S. Abyssiscala, Pseudoacirsa, Tumidiacirsa*, subgenn. n., DE BOURY J. conchyliol. Paris **58** pp. 212 221 222.

Schasicheila pilsbryi sp. n. Mexico and Guatemala, WAGNER in MARTINI & CHEMNITZ Conch. Cab. **1911** pp. 352–353.

Scissurella petermannensis sp. n. Antarctic, LAMY Bul. Muséum Paris **1910** pp. 323–324.

Sipho gaini sp. n. Antarctic, LAMY Bul. Muséum Paris **1910** pp. 319–320.

†*Siphonalia kempi* sp. n. Florida Oligocene, MAURY Bull. Amer. Paleont. Ithaca N.Y. **4** (No. 21) 1910 p. 138.

†*Solariella alpina* sp. n. Obere Kreide Kurfirsten, BÖHM & HEIM Basel Abh. Schweiz. Pal. Ges. **36** 1909 p. 32.

†*Solenosteira dalli* sp. n. Panama Oligocene, BROWN & PILSBRY Philadelphia Proc. Acad. Nat. Sci. **63** p. 348.

Somatogyrus mexicanus sp. n. Mexico, PILSBRY Nautilus **23** pp. 98–99.

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†*Gyrorbis verticulus* var. n. *decurvatus* Ungarn Pleistocene, KORMOS Res. wissenschaftl. Untersuchungen d. Balatonsees Anh. Pal. 4 Wien p. 53.

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†*H. involuta* var. *deplanata* var. n. Germany Cainozoic, Jooss Wiesbaden Jahrb. Ver. Natk. 64 p. 57.

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†*Klikia osculum* Thom. var. *crassa, jungi* Bttg. var. *succica*, **varr. n.**, Germany Tertiary, Wenz Wiesbaden Jahrb. Ver. Natk. **64** pp. 83 91.

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†*Limax fonyódensis, loczyi*, **spp. n.**, Umgebung Plattensee Pliocene, Lörenthey Res. wissenschaftl. Untersuchungen d. Balatonsees Anh. Pal. **4** Wien pp. 95–96.

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L. elegans, lacta, **spp. n.**, Central-Africa, Thiele Wiss. Ergebnisse d. D. Zentral-Africa Exp. 1907–8 Bd 3 Lfg 6 **1911** p. 204.

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†*L. harmeri, butleyensis, woodi*, **spp. n.**, East Anglia Pliocene, Kennard & Woodward Geol. Mag. London **8** pp. 401–402.

†*L. kenescense, minima*, **spp. n.**, Umgebung Plattensee Tertiary, Halaváts Res. wissenschaftl. Untersuchungen d. Balatonsees Anh. Pal. **4** Wien pp. 53 54.

†*L. praepalustris* **sp. n.** Portugal Cainozoic, Roman Néogène Continental dans la Basse Vallée du Tage Comm. Serv. Geol. Portugal **1907** p. 84.

†*Limnæus* (vide etiam *Limnæa*) *obrutschewi* **sp. n.** Fischschiefer von Transbaikalien, Reis Explor. géolog. chem. de fer Sibérie St. Peterburg **29** 1910 pp. 50 50.

†*Limnophysa girondica* Morelet var. *moguntina, L. kinkelini, L. turrita* klein mut. *elongata*, **sp. var.** & **mut. n.**, Germany Cainozoic, Jooss Wiesbaden Jahrb. Ver. Natk. **64** pp. 69–71.

†*L. palustris* **var. n.** *laddányensis, petensis*, Ungarn Pleistocene, Kormos Res. wissenschaftl. Untersuchungen d. Balatonsees Anh. Pal. **4** Wien pp. 48 50.

Macrochlamys kurtzi, cinctula, rabani, proba, **spp. n.**, Burmah, Godwin-Austen Land and Freshwater Mollusca of India etc. **2** pp. 252–253 258–259.

M. sacrata, radia, masoni, vesica and var. *anomala, oglei, M. sylhetensis, exaria, sufflava, lubricata, garaensis, subangulata, scyphus, evidens, striata, japvoensis, nemothaensis, saltus, sphaerica, herbia, vertex, propinqua, quaesita, striaticostata, dikrangensis, ganjaviensis, silvatica, hyalinoidea*, **spp.** & **varr. n.**, India, Godwin-Austen Land and Freshwater Mollusca of India etc. **2** pp. 244–245 247–252 255–263 266–268 271–272.

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†*Odontogyrorbis krambergeri* **nom. n.** für *Planorbis Krambergeri* Hungary Pliocene, LÖRENTHEY Res. wissenschaftl. Untersuchungen d. Balatonsees Anh. Pal. **4** Wien pp. 121–122.

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†*Omphalosagda hydrobiarum* **sp. n.** Germany Cainozoic, Jooss Wiesbaden Jahrb. Ver. Natk. **64** pp. 54–55.

Omphix **subgen. n.** (*Mesomphix*), PILSBRY Philadelphia Proc. Acad. Nat. Sci. **63** p. 479.

Opeas orestias, terebra, rumruticusis, angustior, vicina, **spp. n.**, British East Africa, PRESTON Ann. Mag. Nat. Hist. London Ser. 8 **7** pp. 474–475.

O. varicosum, tangaense, **spp. n.**, D'AILLY Kilimandjaro-Meru Exp. **6** pp. 27–28.

Orcohelix clappi emigrans, cataracta, chiricahuana percarinata, obsoleta, barbata minima, **subspp. n.**, Arizona, PILSBRY & FERRISS Philadelphia Proc. Acad. Nat. Sci. **62** pp. 79–80 84–85 87–91 94–95.

O. yavapai, profundorum, extremitatis, anglica, **subspp. n.**, Arizona, PILSBRY Philadelphia Proc. Acad. Nat. Sci. **63** pp. 182 184–185.

Oxytes beddomei **sp. n.** Upper Burma, GODWIN-AUSTEN London Proc. Malac. Soc. **9** pp. 327–328.

Partula gerardensis **sp. n.** Bismarck Archipelago, Soos Ann. Hist.-Nat. Mus. Nat. Hung. Budapest **9** pp. 355–356.

†*Patula* (*Janulus*) *olisipponensis* **sp. n.** Portugal Cainozoic, ROMAN Néogène Continental dans la Basse Vallée du Tage Comm. Serv. Geol. Portugal **1907** pp. 82–83.

Petriola alticola **sp. n.**, D'AILLY Kilimandjaro-Meru Exp. **6** p. 27.

(x–9186 *r*)

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†*P. syriaca* **sp. n.** Syria, GERMAIN Bul. Muséum Paris **1911** p. 64.

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†*P. praecursor* **sp. n.** East Anglia Pliocene, KENNARD & WOODWARD Geol. Mag. London **8** pp. 402–403.

†*P. calamensis* **sp. n.** Algeria Tertiary, DARESTE DE LA CHAVANNE Thèse fac. sci. Lyon, and Bulletin de la Carte Geologique d'Algerie (sér. 4) No. 4 **1910** p. 304.

†*P. balconicus, krambergeri, subptychophorus, grandis*, **spp. n.**, Umgebung Plattensee Tertiary, HALAVÁTS Res. wissenschaftl. Untersuchungen d. Balatonsees Anh. Pal. **4** Wien pp. 55–57.

†*P.* (*Gyraulus*) *tenuistriatus, P. parvulus, P.* (*Segmentina*) *loczyi* **sp. n.** Umgebung Plattensee Pliocene, LORENTHEY Res. wissenschaftl. Untersuchungen d. Balatonsees Anh. Pal. **4** Wien pp. 110–111 118 119–120.

Planamastra peaseana **gen. & sp. n.** Hawaiian Isds., PILSBRY Manual of Conchology **20** pt. **83** pp. 129–131.

Pleurodonte otis orthorhinus, uncigera chiriquensis, **subspp. n.**, Panama, PILSBRY Philadelphia Proc. Acad. Nat. Sci. **62** pp. 505–507.

P. angulata, nomenclature of, VANATTA Nautilus Boston Mass. **24** pp. 136–138.

[*P.*] *Helix* (*Dentellaria*) *badia* **varr.** *roseolabrum, unicolor*, **varr. n.**, SMITH Nautilus Boston Mass. **25** p. 48.

†*Pleurolimnaea tenuicosta whitearesi* **var. n.** Saskatchewan Cretaceous, BAKER Chicago Acad. Sci. Sp. Pub. No. **3** p. 93.

Polygyra monodon cava **subsp. n.** New York State, PILSBRY & VANATTA Nautilus Boston Mass. **25** p. 12.

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Proserpinula margaritella **sp. n.** Jamaica, PILSBRY & BROWN Philadelphia Proc. Acad. Nat. Sci. **62** pp. 526–527.

Pseudochloritis **gen. n.** type *P. inflexa* Klein, BOETTGER Frankfurt-a-M. NachrBl. D. malakozool. Ges. **43** pp. 132–133.

Pseudoglessula intermedia, elatior, **spp. n.,** Insel Kwidschwi (Lake Kivu), THIELE Wiss. Ergebnisse d. D. Zentral-Africa Exp. 1907–8 Bd 3 Lfg 6 **1911** p. 207.

P. pusilla **sp. n.** British East Africa, PRESTON Bruxelles Rev. Zool. Af. **1** p. 220.

Pseudokaliella ornatula **gen. & sp. n.** India, GODWIN-AUSTEN Land and Freshwater Mollusca of India etc. **2** pp. 296–297.

Pseudostachea **gen. n.** type *P. splendida* Drap., BOETTGER Frankfurt-a-M. NachrBl. D. malakozool. Ges. **43** p. 131.

Pseudoxerotricha **gen. n.** type *P. subconspurcata* Sdbg., BOETTGER Frankfurt-a-M. NachrBl. D. malakozool. Ges. **43** p. 132.

Psichion **gen. n.** *Zonitidae*, GUDE London Proc. Malac. Soc. **9** p. 272.

Pterodiscus alatus subsp. *litus, thaanumi,* **sp. & subsp. n.,** Hawaiian Isds., PILSBRY Manual of Conchology **20** pt. 82 pp. 122–126.

Pupa (*Fauxulus*) *glanvilleana* (Ancey) var. *darglensis, tomlini,* **varr. n.,** S. Africa, BURNUP Ann. Mag. Nat. Hist. London Ser. 8 **7** pp. 412–414.

†*P. ödenensis, berthae,* **spp. n.,** Umgebung Plattensee Tertiary, HALAVÁTS Res. wissenschaftl. Untersuchungen d. Balatonsees Anh. Pal. **4** Wien pp. 60–61.

Pupisoma cacharica India, *P. longstaffi* Ceylon, **spp. n.,** GODWIN-AUSTEN Land and Freshwater Mollusca of India etc. **2** pp. 303–304.

Pupilla muscorum Müll. var. *milaschevitschi* **var. n.** Russia, LINDHOLM Frankfurt-a-M. NachrBl. malakozool. Ges. **43** pp. 39–40.

P. syngenes arus, hebes kaibabensis, **subspp. n.,** Arizona, PILSBRY Philadelphia Proc. Acad. Nat. Sci. **63** pp. 196–197.

Rachis virginea, turricula, **spp. n.,** British East Africa, PRESTON Ann. Mag. Nat. Hist. London Ser. 8 **7** pp. 469–470.

Rhytida hyalinoïdes **sp. n.** Usambara, THIELE Wiss. Ergebnisse d. D. Zentral-Africa Exp. 1907–8 Bd 3 Lfg 6 **1911** p. 187.

Rhytidopoma fraterminor **sp. n.** Jamaica, PILSBRY & BROWN Philadelphia Proc. Acad. Nat. Sci. **62** pp. 532–533.

Ruthrenia **nom. n.** for *Sykesia* Gude GUDE London Proc. Malac. Soc. **9** p. 271.

Sagda grandis, spei, anodon, simplex, **spp. n.,** Jamaica, PILSBRY & BROWN Philadelphia Proc. Acad. Nat. Sci. **62** pp. 527–530.

Sakiella merguiensis, fidus, **spp. n.,** Burmah, GODWIN-AUSTEN Land and Freshwater Mollusca of India etc. **2** pp. 295–296.

Salasiella browni **sp. n.** Panama, PILSBRY Philadelphia Proc. Acad. Nat. Sci. **62** p. 508.

Simpsonia **subgen. n.** (*Galba*) genotpye *Limnaea humilis*, BAKER Chicago Acad. Sci. Sp. Pub. No. **3** p. 236.

Sitala subglobosa, capillacea, **spp. n.,** German New Guinea, Soos Ann. Hist.-Nat. Mus. Nat. Hung. Budapest **9** pp. 352–353.

Sonorella bicipitis, optata, binneyi, virilis leucura, micra, **spp. & subsp. n.,** PILSBRY & FERRISS Philadelphia Proc. Acad. Nat. Sci. **62** pp. 55–77.

Spirostemma mandevillensis **sp. n.** Jamaica, PILSBRY & BROWN Philadelphia Proc. Acad. Nat. Sci. **62** pp. 530–531.

? Stegodera (*Trihelix*) *helleri* **sp. n.** Formosa ROLLE Frankfurt-a-M. Nachr-Bl. D. malakozool. Ges. **43** pp. 31–32 72–73.

Streptaxis vulcani Vulcan Niragongo, *ukamica* Ukami-Berge, *vosseleri* Amani-Tanga (E. C. Africa), **spp. n.**, THIELE Wiss. Ergebnisse d. D. Zentral-Africa Exp. 1907–8 Bd 3 Lfg 6 **1911** pp. 184–185.

Subulina virgo, tribulationis, **spp. n.**, British East Africa, PRESTON Bruxelles Rev. Zool. Af. **1** p. 220.

Succinea kervillei **sp. n.** Syria, GERMAIN Bul. Muséum Paris **1911** p. 28.

Tachcopsis **gen. n.** type *Tachea nimophila* Bgt., BOETTGER Frankfurt-a-M. NachrBl. D. Malakozool. Ges. **43** p. 130.

Thapsia cavernicola, silvaepluviosae, radiata, kibonotoensis, **spp. n.**, D'AILLY Kilimandjaro-Meru Exp. **6** pp. 10 11.

T. conuloidea **sp. n.** British East Africa, PRESTON Bruxelles Rev. Zool. Af. **1** pp. 219–220.

T. rumrutiensis **sp. n.** British East Africa, PRESTON Ann. Mag. Nat. Hist. London Ser. 8 **7** pp. 466–467.

Thapsiella **gen. n.** *Zonitidae*, GUDE London Proc. Malac. Soc. **9** p. 272.

Thysanophora canalis **sp. n.** Panama, PILSBRY Philadelphia Proc. Acad. Nat. Sci. **62** p. 507.

T. ingersolli meridionalis **subsp. n.** Arizona, PILSBRY & FERRISS Philadelphia Proc. Acad. Nat. Sci. **62** pp. 116–117.

Trachycystis planulata, pseudocharopa, approximans, rugosa, **spp. n.**, British East Africa, PRESTON Ann. Mag. Nat. Hist. London Ser. 8 **7** pp. 468–469.

Trichiopsis **sec. n.** type *Hygromia crebripunctata* Sdbg., BOETTGER Frankfurt-a-M. NachrBl. D. malakozool. Ges. **43** p. 132.

Trichotoxon (*Dendrotoxon*) *kempi, prestoni, keniensis*, **spp. n.**, British East Africa, POLLONERA Ann. Mag. Nat. Hist. London Ser. 8 **7** pp. 332–334.

†*Triptychia boettgeri* **sp. n.** Umgebung Plattensee Pliocene, LÖRENTHEY Res. wissenschaftl. Untersuchungen d. Balatonsees Anh. Pal. **4** Wien pp. 104–105.

Trochonanina densestriata, acute-carinata, **spp. n.**, Central-Africa, THIELE Wiss. Ergebnisse d. D. Zentral-Africa Exp. 1907–8 Bd 3 Lfg 6 **1911** p. 200.

? T. membranacea **sp. n.**, D'AILLY Kilimandjaro-Meru Exp. **6** p. 14.

T. (*Trochozonites*) *quinquefilaris* **sp. n.** Ivory Coast, GERMAIN Bul. Muséum Paris **1911** pp. 233–235.

Trochozonites meruensis **sp. n.**, D'AILLY Kilimandjaro-Meru Exp. **6** p. 12.

†*Tropidiscus umbilicatus* var. n. *semseyi* Ungarn Pleistocene, KORMOS Res. wissenschaftl. Untersuchungen d. Balatonsees Anh. Pal. **4** Wien p. 52.

Urocoptis (*Gongylostoma*) *villarensis, proteus* and varr. *castanea, robustaxis, remediensis, mayajiguensis* and var. *fulva, cionisca, transitoria, fallax, dilatata, turgida, uberrima, intusco-arctata, dimidiata* and var. *intermedia alveatis, tuba*, **spp.** & **varr. n.**, Cuba, TORRE Nautilus Boston Mass. **25** pp. 42–48 75–79.

Urocyclus (*Microcyclus*) *signatus* **sp. n.** British East Africa, POLLONARA Ann. Mag. Nat. Hist. London Ser. 8 **7** pp. 331–332.

†*Vallonia pulchella enniensis* **form. n.** *major* & **var. n.** *csórensis* UNGARD, Pleistocene, KORMOS Res. wissenschaftl. Untersuchungen d. Balatonsees. Anh. Pal. **4** Wien p. 35.

Varicella rapax **sp. n.** Jamaica, PILSBRY & BROWN Philadelphia Proc. Acad. Nat. Sci. **62** p. 531.

Vitrina bambuseti Sabinjo, *tenuissima* Karissimbi, *ugandensis* Uganda, **spp. n.**, THIELE Wiss. Ergebnisse d. D. Zentral-Africa Exp. 1907–8 Bd 3 Lfg 6 **1911** pp. 188–189.

V. kiboschoensis, ericinellae, viridis-plendens, **spp. n.**, D'AILLY Kilimandjaro-Meru Exp. **6** pp. 8 9.

V. libanica **sp. n.** Syria, GERMAIN Bul. Muséum Paris **1911** p. 31.

V. rhodopensis **sp. n.** Bulgaria, WOHLBEREDT Görlitz Abh. natf. Ges. **1911** p. 177.

Veronicella gaillardi **sp. n.** Lake Tchad, GERMAIN Bul. Muséum Paris **1911** p. 134.

V. riveti, alausiensis, **spp. n.**, Ecuador, GERMAIN in "Mesure d'un Arc de Meridien Equatorial en Amerique du Sud" 1899–1906 **9** 3 pp. C. 4–C. 9.

†*Xerophila striataformis* **sp. n.** Umgebung Plattensee Pliocene, LÖRENTHEY Res. wissenschaftl. Untersuchungen d. Balatonsees Anh. Pal. **4** Wien pp. 100–101.

Zaphysema buddiana avus **subsp. n.** Jamaica, PILSBRY & BROWN Philadelphia Proc. Acad. Nat. Sci. **62** p. 526.

Zingis gaziensis, consanguinea, keniana, **spp. n.**, British East Africa, PRESTON Ann. Mag. Nat. Hist. London Ser. 8 **7** p. 467.

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†*L.* (*Mantellum*) *bravoensis, mexicana,* **spp. n.,** Mexico Cretaceous, BÖSE Mexico Bol. Inst. Geol. **25** 1910 pp. 88–90 92–93.

†*L.* (*M.*) *præinflata* **sp. n.** Hungary Tertiary, LÖRENTHEY Math. Termt. Ért. Budapest **29** pp. 1115–1116.

†*Limnocardium pseudo-vicinum* **sp. n.** Umgebung Plattensee Pliocene, LÖRENTHEY Res. wissenschaftl. Untersuchungen d. Balatonsees Anh. Pal. **4** Wien pp. 84–85.

†*L. ponticum, tihanyensi,* **spp. n.,** Umgebung Plattensee Tertiary, HALAVÁTS Res. wissenschaftl. Untersuchungen d. Balatonsees Anh. Pal. **4** Wien pp. 34–35.

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†*Lithodomus semistriatus* **sp. n.** Roumania Jurassic, SIMIONESCU Bucuresci Publ. Adamachi Ac. Romana **25 1910** pp. 18–19.

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†*L. frechi* **sp. n.** Tehuantepec Pliocene, TOULA Wien Jahrb. Geol. RchsAnst. **61.**

†*L.* (*Codakia*) *daricna* **sp. n.** Panama Upper Tertiary, TOULA Wien Jahrb. Geol. RchsAnst. **61.**

†*L.* (*Loripinus*) *fragilis* mut. *lecointreae,* mut. *benoisti* **mut. n.** France Aquitanian, COSSMANN & PEYROT Bordeaux Actes soc. linn. **65** pp. 255–258.

†*Lutraria sanna* Bast. varr. *major, maxima,* **varr. n.,** Austria Miocene, SCHAFFER Wien Abh. Geol. RchsAnst. **22** Heft 1 1910 pp. 94–95.

†*L. ? tennis* **sp. n.** Antarctic Tertiary, WILCKENS Schwed. Südpolar-Exp. **3** 13 pp. 19–20.

†*Macrochlamys holgeri* Gein. varr. *inaequicostata, sulcata,* **varr. n.,** Austria Miocene, SCHAFFER Wien Abh. Geol. RchsAnst. **22** Heft 1 1910 pp. 38–39.

†*Macrodus gepidicus* **sp. n.** Ungarn Trias, FRECH Ergebn. d. wiss. Forsch. d. Balatonsees I Bd I Teil Paläont. Anh. III Bd Budapest **1911** p. 17.

†*Mactra bucklandi* Defr. var. *protracta* **var. n.** Austria Miocene, SCHAFFER Wien Abh. Geol. RehsAnst. **22** Heft 1 1910 p. 93.

†*M. irizari* **sp. n.** Antarctic Tertiary, WILCKENS Schwed. Südpolar-Exp. **3** 13 p. 19.

†*Malletia pencanoides* **sp. n.** Cretaceous Antarctica, WILCKENS Schwed. Südpolar-Exp. **3** 12 p. 25.

†*Manupecten carinocostatus, crestensis* Font. varr. *laevis, latesulcata,* **sp. & varr. n.,** Austria Miocene, SCHAFFER Wien Abh. Geol. RehsAnst. Heft 1 1910 pp. 40–42.

†*Meretrix* (*Tivelina*) *berica* **sp. n.** Italy Eocene, FABIANA Roma Mem. Soc. xl **15** 1908 p. 204.

†*Miltha avitensis* (*Gibboludina*) *ellipsoidalis, M.* (*Eomiltha*) *chainei,* **spp. n.,** France Aquitanien, COSSMANN & PEYROT Bordeaux Actes soc. linn. **65** pp. 271–273 282–283 287–288.

†*Mitrularia hungarica* **sp. n.** Hungary Tertiary, LÖRENTHEY Math. Termt. Ért. Budapest **29** pp. 1122–1124.

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†*M. schneebrichensis* **sp. n.** Kronstadt Jurassic, TOULA Wien Abh. Geol. Rehs-Anst. **20** pp. 7–8.

†*M. kinkliis* **sp. n.** Germany Lower Cretaceous, WOLLEMANN Berlin Jahrb. geol. Landesanst. **29** II 1908 [1909] pp. 158–159.

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†*Modiolodon quadratus, subcircularis,* **spp. n.,** Scotland Silurian, HIND Edinburgh Trans. R. Soc. **47** pp. 508–509.

†*Modiolopsis subquadratus, scotica* and var. *brebis, minor,* **spp. & var. n.,** Scotland Silurian, HIND Edinburgh Trans. R. Soc. **47** pp. 505–506.

†*Monodacna* (*Pseudocatillus*) *pannonica* **sp. n.** Umgebung Platensee Pliocene, LÖRENTHEY Res. wissenschaftl. Untersuchungen d. Balatonsees Anh. Pal. **4** Wien pp. 76–77.

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†*Myalina prisca* **sp. n.** Scotland Silurian, HIND Edinburgh Trans. R. Soc. **47** p. 499.

†*Myochlamys anderssoni* **sp. n.** Cockburn Isd. Antarctic Pleistocene, HENNIG Schwed. Südpolar-Exp. **3** 10 pp. 11–18.

†*Myophoria Balatonis* **sp. n.** Ungarn Trias, FRECH Ergebn. d. wiss. Forsch. d. Balatonsees I Bd I Teil. Paläont. Arch. III Bd Budapest **1911** pp. 6–9.

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†*Myrtea spinifera* [Montagu] var. *tenuicardinata* **var. n.** France Aquitanian, COSSMANN & PEYROT Bordeaux Actes soc. linn. **65** p. 293.

†*Mytilus dobragiacus* **sp. n.** Roumania Jurassic, SIMIONESCU Bucuresci Publ. Adamachi Ac. Romana **25 1910** p. 18.

†*M. galloprovincialis* Lam. var. *fuscoides, galloprovincialis* Lam. var. *miohercules,* **varr. n.,** Austria Miocene, SCHAFFER Wien Abh. Geol. RehsAnst. **22** Heft 1 1910 pp. 50–51.

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†*Nordenskjöldia* **gen. n.,** *Nordenskjöldi* **sp. n.,** Cretaceous Antarctica, WILCKENS Schwed. Südpolar-Exp. **3** 12 p. 26.

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†*N. montpeliercnsis* **sp. n.** Wyoming and Idaho Carboniferous, GIRTY Washington Bull. U. S. Geol. Surv. **436** pp. 38–39.

†*N. stationis* **sp. n.** Cretaceous Antarctica, WILCKENS Schwed. Südpolar-Exped. **3** 12 p. 24.

†*N. nux* **sp. n.** Germany Lower Cretaceous, WOLLEMANN Berlin Jahrb. geol. Landesanst. **29** H 1908 [1909] pp. 159–160.

†*N. Goldfussi* Mitr. *Böckhi* **mut. n.** Ungarn Trias, FRECH Ergebn. d wiss. Forsch. d. Balatonsees I Bd I Teil Paläont. Anh III Bd Budapest **1911** pp. 14–16.

†*N. nora* **sp. n.** Antarctic Tertiary, WILCKENS Schwed. Südpolar-Exp. **3** 13 p. 5.

†*N. guadalupæ* **sp. n.** Mexico Cretaceous, BÖSE Mexico Bol. Inst. Geol. **25** 1910 pp. 120–121.

†*Nuculana lobata, concentrica, curta,* **spp. n.,** Scotland Silurian, HIND Edinburgh Trans. R. Soc. **47** pp. 519–521.

†*Ontaria tschernyschewi, elegans,* **spp. n.,** Domanik des Südtiman Upper Devonian, ZAMÏATIN Mém. com. geolog. **27** pp. 15 16 26 & 27.

†*Opisthoptera transversa* **sp. n.** Scotland Silurian, HIND Edinburgh Trans. R. Soc. **47** pp. 495–496.

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†*O. sublamellosa* **sp. n.** Roumania Jurassic, SIMIONESCU Bucuresci Publ. Adamachi Ac. Romana **25** 1910 p. 7.

†*O.* Eb. *fraasi* **sp. n.** Deutsch-Ostafrika Cretaceous, KRENKEL Wien Beitr. Pal. Geol. OestUng. **23** 1910 p. 207.

†*O. fimbriata* Grat var. *crassa, O.* (*Ostreola*) *miocucullata* **var. & sp. n.** Austria Miocene, SCHAFFER Wien Abh. Geol. RchsAnst. **22** Heft 1 1910 pp. 17–18 20–21.

†*O. seymouriensis* **sp. n.** Cretaceous Antarctica, WILCKENS Schwed. Südpolar-Exp. **3** 12 p. 19.

†*O. gatunensis* **sp. n.** Panama Oligocene, BROWN & PILSBRY Philadelphia Proc. Acad. Nat. Sci. **63** p. 366.

†*O.* (*Alectryonia*) *marconi* **sp. n.** Mexico Cretaceous, BÖSE Mexico Bol. Inst. Geol. **25** 1910 pp. 105–106.

†*Paracyclas minor* **sp. n.** Scotland Silurian, HIND Edinburgh Trans. R. Soc. **47** pp. 509–510.

†*Paraptyx uchtensis* **sp. n.** Domanik des Südtiman Upper Devonian, KAMÏATIN Mém. com. geolog. **67** pp. 12 & 25.

†*Pararca tenuilineata* **sp. n.** Scotland Silurian, HIND Edinburgh Trans. R. Soc. **47** pp. 515–516.

†*Palæoncilo antiqua, sinuatus,* **spp. n.,** Scotland Silurian, HIND Edinburgh Trans. R. Soc. **47** pp. 526–527.

†*Palconcilo sera* **sp. n.** Arkansas Carboniferous, GIRTY New York N.Y. Ann. Acad. Sci. **20** p. 227.

†*Panopæa nucleoides* **sp. n.** Antarctic Tertiary, WILCKENS Schwed. Südpolar-Exp. **3** 13 pp. 20–21.

†*P.?* (*Pleuromya?*) *clausa* **sp. n.** Cretaceous Antarctica, WILCKENS Schwed. Südpolar-Exp. **3** 12 p. 62.

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†*P. chihuahuensis* **sp. n.** Mexico Cretaceous, BÖSE Mexico Bol. Inst. Geol. **25** 1910 p. 93.

†*P. subdecemcostatus, submiscellus,* **spp. n.,** Senon Deutschl., VOGEL v. FALCKENSTEIN Berlin Zs. D. geol. Ges. **52** pp. 552–553.

†*P. pinnulatus* **sp. n.** Panamacanal Upper Tertiary, TOULA Wien Jahrb. Geol. RchsAnst. **61.**

†*P. kotouccnsis, polycyclus,* **spp. n.,** Stramberg Mähren Jurassic, BLASCHKE Wien Ann. Nat. Hist. Hofmus. **25.**

†*P. Csopakensis* **sp. n.** Ungarn Trias, FRECH Ergebn. d. wiss. Forsch. d. Balatonsees I Bd I Teil. Paläont. Anh. III Bd Budapest **1911** pp. 4–5.

†*P. pseudo-beudanti* Dep. et Rom. var. *rotundata* **var. n.** Austria Miocene, SCHAFFER Abh. Geol. RchsAnst. **22** Heft 1 1910 p. 45.

†*P. deformis polaris* **var. n.** Schwarzes Schiefer von Balanch-ary, WITTENBURG St. Peterburg Trd. geol. Muz. Ak. nauk **4** 1910 (1911) pp. 65–67.

†*P.* (*Aequipecten*) *effossus, P.* (*Amussium*) *toulae,* **spp. n.,** Panama Oligocene, BROWN & PILSBRY Philadelphia Proc. Acad. Nat. Sci. **63** pp. 364–365.

†*P.* (*Amussium*) *frechi* **sp. n.** Tehuantepec Pliocene, TOULA Wien Jahrb. Geol. RchsAnst. **61.**

†*Pectunculus* (*Axinaca*) *gatunensis* **sp. n.** Panamacanal Upper Tertiary, TOULA Wien Jahrb. Geol. RchsAnst. **61.**

†*P.* (*A.*) *fichteli* Desh. var. *vindobonensis* **var. n.** Austria Miocene, SCHAFFER Wien Abh. Geol. RchsAnst. **22** Heft 1 1910 pp. 58–59.

†*Perna oxoniensis* **sp. n.** England Jurassic, PARIS Gloucester Proc. Cotteswold Nat. F. Cl. **17** p. 234.

†*P. tendagura* **sp. n.** Deutsch-Ostafrika Cretaceous, KRENKEL Wien Beitr. Pal. Geol. OestUng. **23** 1910 pp. 204–205.

†*P. sclereperta* **sp. n.** Florida Oligocene, MAURY Bull. Amer. Paleont. Ithaca N.Y. **4** (No. 21) 1910 p. 151.

†*Petricolaria permutabilis* **sp. n.** France Neogene, COSSMANN & PEYROT Bordeaux Actes soc. linn. **62** pp. 65–66.

†*Phacoides biali, asymetricus*, **spp. n.** France Aquitanian, COSSMANN & PEYROT Bordeaux Actes soc. linn. **65** pp. 318–321.

†*P. sharmani* **sp. n.** Antarctic Tertiary, WILCKENS Schwed. Südpolar-Exp. **3** 13 pp. 12–13.

†*P. prunoides, actinoides, P.* (*Bellucina*) *nereidideditus*, **spp. n.**, Florida Oligocene, MAURY Bull. Amer. Paleont. Ithaca N.Y. **4** (No. 21) 1910 pp. 153–154.

†*P.* (*Cavilucina?*) *Scotti* **sp. n.** Cretaceous Seymour-Insel, WILCKENS Schwed. Südpolar-Exped. **3** 12 p. 57.

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†*Pholadomya alpina* Matheron varr. *panopaeaeformis, rostrata, eggenburgensis*, **sp. & var. n.**, Austria Miocene, SCHAFFER Wien Abh. Geol. RchsAnst. **22** Heft 1 1910 pp. 97–100.

†*P. shattucki* **nom. nov.** for *P. roemeri* Shattuck Mexico Cretaceous, BÖSE Mexico Bol. Inst. Geol. **25** 1910 pp. 137–138.

†*Pinna guadalupae* **sp. n.** Mexico Cretaceous, BÖSE Mexico Bol. Inst. Geol. **25** 1910 pp. 85–86.

†*Pinna Andersoni* **sp. n.** Cretaceous Antarctica, WILCKENS Schwed. Südpolar-Exp. **3** 12 p. 11.

†*P. G. müllori* **sp. n.** Deutsch Ostafrika Cretaceous, KRANKEL Wien Beitr. Pal. Geol. OestUng. **23** 1910 pp. 203–204.

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P. volutabundum **sp. n.** Bermuda, VANATTA Philadelphia Pa. Proc. Acad. Nat. Sci. **62** pp. 671–672.

†*P.* (*Fluminina*) *amnica* var. n. *weissi* Umgebung Plattensee Pleistocene, KORMOS Res. wissenschaftl. Untersuchungen d. Balatonsees Anh. Pal. **4** Wien pp. 44–45.

†*Pitar centangulata, cora*, **spp. n.**, Panama Oligocene, BROWN & PILSBRY Philadelphia Proc. Acad. Nat. Sci. **63** pp. 369–370.

†*Pitaria* (*Lamelliconcha*) *harrisi* **sp. n.** Florida Oligocene, MAURY Bull. Amer. Paleont. Ithaca N.Y. **4** (No. 21) 1910 p. 155.

†*Placunopsis bochmi* **sp. n.** Roumania Jurassic, SIMIONESCU Bucuresci Publ. Adamachi As. Romana **25** 1910 p. 8.

†*Plicatula subgurgitis* **sp. n.** Mexico Cretaceous, BÖSE Mexico Bol. Inst. Geol. **25** 1910 pp. 100–101.

†*Polyptychus striatus* **sp. n.** Persia Cretaceous, DOUVILLÉ Paris Mém. soc. geol. **18** p. 78.

†*Posidonomya antiqua* **sp. n.** Scotland Silurian, HIND Edinburgh Trans. R. Soc. **47** pp. 492–493.

†*Praeradiolites maroni, irregularis,* **spp. n.,** Palestine Cretaceous, DOUVILLÉ Paris Mém. soc. geol. **18** pp. 73–74.

†*P. tissoti* **sp. n.** Algeria Cretaceous, DOUVILLÉ Paris Mém. soc. geol. **18** p. 44.

†*Prosodacna mrazeci, savae, munieri* Sabba, varr. *parscoviensis* and *pseudorumana, mirabilis,* **spp.** & **varr. n.,** Roumania Cainozoic, TEISSEYRE Bcuharest An. Inst. Geol. Romaniei **1** 1907–1908 pp. 295–298 305–306 308–309.

†*Protocardia rothpletzi* **sp. n.** Deutsch Ostafrika Cretaceous, KRENKEL Wien Beitr. Pal. Geol. OestUng. **23** 1910 p. 216.

†*Protopecten vimineus, crenulatus,* **gen.** & **spp. n.,** Scotland Silurian, HIND Edinburgh Trans. R. Soc. **47** pp. 484–485.

†*Psammobia* (*Psamoteca*) *labordei* Bast. var. *major* **var. n.** Austria Miocene, SCHAFFER Wien Abh. Geol. RchsAnst. **22** Heft 1 1910 p. 89.

Pseudanodonta rossmaessleri var. *euxina* S. Russia, *elongata* var. *silesiaca* Germany, *nordenskiöldi* var. Loc.? *maclarensis* Finland, **varr. n.,** KOBELT & HAAS in ROSSMÄSSLER Icon. der Land und Süsswasser Moll. **17** pp. 53–55.

Pseudodon solidus **sp. n.** Hunan, HAAS Frankfurt a. M. NachrBl. D. malakozool. Ges. **43** pp. 46–47.

Pseudoleguminaia **subgen. n.** of gen. *Leguminaia* Conrad, type *L. chantrei* Locard, GERMAIN Bul. Muséum Paris **1911** p. 67.

†*Pseudolepton granuligerum, irregulare,* **spp. n.,** France Aquitanien, COSSMANN & PEYROT Bordeaux Actes soc. linn. **65** pp. 209–212.

†*Pseudomonotis hinnitidea* Bittn. *minor* **mut. nov.** Ungarn Trias, FRECH Ergebn. d. wiss. Forsch. d. Balatonsees I Bd I Teil Paläont. Anh. III Bd Budapest **1911** p. 4.

†*Pterinea elegans, reticulata,* **spp. n.,** Scotland Silurian, HIND Edinburgh Trans. R. Soc. **47** pp. 494–495.

†*P. lanii, bradti,* **spp. n.,** Michigan Silurian, GRABAU Michigan Geol. Biol. Surv. Pub. Geol. Ser. 1 pp. 164 166.

†*P. newsomensis, nervata,* **spp. n.,** Tennessee Silurian, FOERSTE Granville Ohio Bull. Sci. Lab. Denison Univ. **14** pp. 66–67.

†*Pterochaenia timanica, tschernyschewi,* **spp. n.,** Domanik des Südtiman Upper Devonian, ZAMÏATIN Mém. com. géolog. **67** pp. 7 8 24.

†*Pteronites ellipticus* **sp. n.** Scotland Silurian, HIND Edinburgh Trans. R. Soc. **47** pp. 496–497.

†*Pycnodonta cochlear* Poli var. *plicata* **var. n.** Austria Miocene, SCHAFFER Wien Abh. Geol. RchsAnst. **22** Heft 1 1910 p. 21.

†*Rhombopteria* (*Newsomella*) *ulrichi* **subgen.** & **sp. n.,** Tennessee Silurian, FOERSTE Granville Ohio Bull. Sci. Lab. Denison Univ. **14** pp. 67–68.

Rhombunio **gen. n.** of gen. *Unio,* type *U. rothi* Bourg., GERMAIN Bul. Muséum Paris **1911** p. 67.

†*Ringicardium burdigalinum* Lam. var. *grandis, hoernesianum* Grat. var. *elongata,* **varr. n.,** Austria Miocene, SCHAFFER Wien Abh. Geol. RchsAnst **22** Heft 1 1910 pp. 67–68.

†*Rochefortia duvergieri* **sp. n.** France Aquitanian, COSSMANN & PEYROT Bordeaux Actes soc. linn. **65** pp. 186–187.

†*Sanguinolites simulans* **sp. n.** Arkansas Carboniferous, GIRTY New York N.Y. Ann. Acad. Sci. **20** p. 224.

†*Sarlatia arnaudi* **nom. n.** for *Mouretia arnaudi* Douvillé, DOUVILLÉ Paris Mém. soc. geol. **18** 1910 p. 29.

Saxicava subalata **sp. n.** Victoria, GATLIFF & GABRIEL Melbourne Proc. R. Soc. Vict. N.S. **23** pp. 85–86.

†*Schizodus ferrieri* **sp. n.** Wyoming and Idaho Carboniferous, GIRTY Washington Bull. U. S. Geol. Surv. **436** pp. 41–42.

†*Semele perlamelloides* **sp. n.** Florida Oligocene, MAURY Bull. Amer. Paleont. Ithaca N.Y. **4** (No. 21) 1910 p. 155.

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Solecardia antarctica **sp. n.** Antarctic, HEDLEY Brit. Antarctic Exp. 2 London **1911** p. 4.

†*Solemya* (?) *schneebrichensis* **sp. n.** Kronstadt Jurassic, TOULA Wien Abh. Geol. RchsAnst. **20** pp. 10–11.

†*Solenomya Rossiana* **sp. n.** Cretaceous Antarctica, WILCKENS Schwed. Südpolar-Exped. **3** 12 p. 65.

†*Solenopsis nitida* **sp. n.** Arkansas Carboniferous, GIRTY New Yrok N.Y. Ann. Acad. Sci. **20** p. 223.

†*Spaniorinus excelsus, duvergieri, neuvillei, S.* (*Lasaeina*) *orthezensis, aquitanica, S.* (*Aligena*) *capsuloides*, **spp. n.**, France Aquitanian, COSSMANN & PEYROT Bordeaux Actes soc. linn. **65** pp. 217–220 224–227.

Sphaerium mohasicum **sp. n.** Mohasi-See (E. C. Africa), THIELE Wiss. Ergebnisse d. D. Zentral-Africa Exp. 1907–8 Bd 3 Lfg 6 **1911** p. 212.

†*S. bulleni* **sp. n.** Cromerian (Forest Bed) Norfolk, KENNARD London Proc. Malac. Soc. **9** pp. 325–326.

†*S. nucleus* **sp. n.** Cretaceous Seymour Island, WILCKENS Schwed. Südpolar-Exp. **3** 12 p. 69.

†*Sphaerocaprina? carezi* **sp. n.** Cretaceous, DOUVILLÉ Paris Mém. soc. geol. **18** p. 34.

†*Sphenotus brauneri, washingtonense, dubium, mesterianum*, **spp. n.**, Arkansas Carboniferous, GIRTY New York N.Y. Ann. Acad. Sci. **20** pp. 224–225.

†*Sportella nepotina, degrangei*, **spp. n.**, France Aquitanian, COSSMANN & PEYROT Bordeaux Actes soc. linn. **65** pp. 233–235.

†*Tapes whitei, aldamensis, guadalupae, chihuahuensis*, **spp. n.**, Mexico Cretaceous, BÖSE Mexico Bol. Inst. Geol. **25** 1910 pp. 133–136.

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†*Tellina* (*Angelus*) *prolenta, temperata*, **spp. n.**, Alabama Eocene, ALDRICH Bull. Amer. Paleont. No. **22** p. 4.

†*Teredo dendrolestes* **sp. n.** Panama Oligocene, BROWN & PILSBRY Philadelphia Proc. Acad. Nat. Sci. **63** p. 372.

†*Thracia eggenburgensis* **sp. n.** Austria Miocene, SCHAFFER Wien Abh. Geol. RchsAnst. **22** Heft 1 1910 pp. 105–106.

†*Trapezium* (*Cypricardia*) *hoernesi* **sp. n.** Austria Miocene, SCHAFFER Wien Abh. Geol. RchsAnst. **22** Heft 1 1910 pp. 73–74.

†*Trigonia antarctica, pygoscelium, regina, hyriiformis*, **spp. n.**, Cretaceous Antarctica, WILCKENS Schwed. Südpolar-Exp. **3** 12 pp. 35 39 41 47.

†*T. matapuana* **sp. n.** Deutsch Ostafrika Cretaceous, KRENKEL Wien Beitr. Pal. Geol. OestUng. **23** 1910 pp. 212–213.

†*T. guadalupae* **sp. n.** Mexico Cretaceous, BÖSE Mexico Bol. Inst. Geol. **25** 1910 pp. 124–125.

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D. SHARP

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ARRANGED BY

W. T. CALMAN, D.Sc.

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Systellaspis echinurus **sp. n.** N. Atlantic, Coutière Paris C. R. Acad. Sci. **152** p. 157.

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Aristeopsis armatus var. *tridens*, EDWARDS & BOUVIER Cambridge Mass. Mem. Mus. Comp. Zool. **27** 1909 p. 197 figs.

Aristeus antillensis **sp. n.** West Indies, EDWARDS & BOUVIER Cambridge Mass. Mem. Mus. Comp. Zool. **27** 1909 p. 203 figs.—*A. viridis* p. 27, *semidentatus* p. 29, MAN Résult. Explor. Siboga Monogr. **39a**.

Artemesia longinaris, EDWARDS & BOUVIER Cambridge Mass. Mem. Mus. Comp. Zool. **27** 1909 p. 238 figs.

Atypopenaeus compressipes p. 83, *dearmatus* p. 84, MAN Résult. Explor. Siboga Monogr. **39a**.

Benthesicymus moratus p. 188, *Bartletti* p. 189 figs., EDWARDS & BOUVIER Cambridge Mass. Mem. Mus. Comp. Zool. **27** 1909.—*B. investigatoris*, MAN Résult. Explor. Siboga Monogr. **39a** p. 14.

Gennadas Alicei p. 191, *elegans* p. 192 fig., *scutatus* p. 193 figs., EDWARDS & BOUVIER Cambridge Mass. Mem. Mus. Comp. Zool. **27** 1909.—*G. pasithea* p. 16, *clavicarpus* p. 19, MAN Résult. Explor. Siboga Monogr. **39a**.

Haliporus debilis p. 206, *affinis* p. 209, *robustus* p. 210, *Mülleri* p. 214, *tropicalis* p. 217 figs., EDWARDS & BOUVIER Cambridge Mass. Mem. Mus. Comp. Zool. **27** 1909.—*H. aequalis* p. 32, *propinquus* p. 33, *obliquirostris* p. 36, *neptunus* p. 37, *sibogae* p. 38, *lucasii* p. 43, MAN Résult. Explor. Siboga Monogr. **39a**.

Hemipenaeus crassipes p. 24, *sibogae* **sp. n.** Malay Archipelago p. 25, MAN t.c.

Hepomadus glacialis, EDWARDS & BOUVIER Cambridge Mass. Mem. Mus. Comp. Zool. **27** 1909 p. 194 figs.

Parapenaeus paradoxus p. 229 figs., *americanus* p. 231, EDWARDS & BOUVIER t.c.—*P. fissurus* p. 79, *investigatoris* p. 80, *longipes* p. 81, *rectacutus* p. 82, MAN Résult. Explor. Siboga Monogr. **39a**.

Parapenaeopsis cornuta p. 93, *venusta* p. 93, MAN t.c.

Penaeidae list of all species, MAN t.c. p. 5.—Spermatheca, ANDREWS Proc. U. S. Nation. Mus. **39** pp. 419–434 figs.

Penaeopsis serratus p. 221, *s.* var. *n. antillensis* West Indies p. 226, *Goodei* p. 226 figs., EDWARDS & BOUVIER Cambridge Mass. Mem. Mus. Comp. Zool. **27** 1909.—*P. monoceros* p. 55, *affinis* p. 57, *elegans* p. 58, sp. p. 60, *coniger* var. *andamanensis* p. 61, *sibogae* p. 63, *richtersii* p. 64, *stridulans* p. 65, *distinctus* p. 69, *hilarulus* **sp. n.**? p. 71, *quinquedentatus* p. 71, *borradailei* **sp. n.** Malay Archipelago p. 73, *Evermanni* p. 75, *Challengeri* **nom. n.** for *serratus* Spence Bate non Milne-Edwards p. 76, MAN Résult. Explor. Siboga Monogr. **39a**.

Penaeus brasiliensis, EDWARDS & BOUVIER Cambridge Mass. Mem. Mus. Comp. Zool. **27** 1909 p. 235 figs.—*P.* important changes in nomenclature p. 95, *semisulcatus* p. 97, *gracilirostris* p. 100, *carinatus* p. 101, *indicus* var. *longirostris* p. 103, *merguiensis* p. 104, *canaliculatus* p. 106, *japonicus* p. 107, *latisulcatus* p. 108, MAN Résult. Explor. Siboga Monogr. **39a**.—*P. setiferus* life history and habits, SPAULDING Cameron La. Gulf Biol. Sta. Bull. No. **11** 1908 pp. 1-24 figs.

Sicyonia brevirostris p. 245, *carinata* p. 250, *edwardsi* p. 251, *dorsalis* p. 253 figs., EDWARDS & BOUVIER Cambridge Mass. Mem. Mus. Comp. Zool. **27** 1909.—*S. benthophila* p. 113, *fallax* p. 115, *rectirostris* p. 116, *parvula* p. 117, *laevis* p. 118, *bispinosa* p. 120, *ocellata* p. 121, *trispinosa* p. 121, *lancifer* p. 123, MAN Résult. Explor. Siboga Monogr. **39a**.

Solenocera koelbeli **nom. n.** for *distincta* Koelbel non de Haan p. 45, *pertinata* p. 45, sp. p. 48, *melantho* p. 48, *faxoni* p. 52, MAN t.c.

Trachypenaeus constrictus, EDWARDS & BOUVIER Cambridge Mass. Mem. Mus. Comp. Zool. **27** 1909 p. 232 figs.—*T. anchoralis* p. 88, *salaco* p. 90, MAN Résult. Explor. Siboga Monogr. **39a**.

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Spongicola inermis, EDWARDS & BOUVIER Cambridge Mass. Mem. Mus. Comp. Zool. **27** 1909 p. 266 figs.

EUPHAUSIACEA.

Revision of genera and species, HANSEN Bul. Ocean. Monaco **210.**

Notes on spp. from N.E. Atlantic slope, TATTERSALL Dublin Fish. Ireland Sci. Invest. **1910** ii pp. 6–21.—Schizopoden der südlichen Nordsee, TESCH Helder Jaarb. Onderz. Zee **1910** pp. 33–83.—Kermadec Ids., CHILTON Wellington Trans. N. Zeal. Inst. **43** p. 563.—Kara Sea, STAPPERS Duc D'Orléans Camp. Arct. 1907 pp. 125–130.

Euphausia eximia E. Pacific p. 23, *americana* W. Atlantic p. 23, *frigida* Antarctic p. 27, *pacifica* N. Pacific p. 28, *distinguenda* E. Pacific p. 32, *lamelligera* E. Pacific p. 32, **spp n.**, *similis* var. n. *armata* p. 26, with figs., HANSEN Bul. Inst. Ocean. Monaco **210.**

Nematobrachion sexspinosus **sp. n.** E. Pacific, HANSEN t.c. p. 51.

Nematoscelis difficilis **sp. n.** E. Pacific, HANSEN t.c. p. 48 fig.

Netomabrachion err. for *Nematobrachion*, HANSEN t.c. p. 50.

Nyctiphanes capensis S. Africa p. 19 fig., *simplex* E. Pacific p. 20, **spp. n.**, HANSEN t.c.

Rhoda inermis as a form of *Thysanoëssa neglecta*, HANSEN t.c. pp. 8–13.

Tessarabrachion **gen. n.** near *Thysanoëssa* p. 46, *oculata* **sp. n.** N. Pacific p. 47, HANSEN t.c.

Thysanoëssa vicina **sp. n.** Antarctic, HANSEN t.c. p. 45 figs.

Thysanopoda megalops, ILLIG Zool. Anz. **38** p. 45 fig.

MYSIDACEA.

Blood-coagulation, TAIT Plymouth J. Mar. Biol. Ass. **9** p. 192.

Notes on spp. from N.E. Atlantic Slope, TATTERSALL Dublin Fish. Ireland Sci. Invest. **1910** ii pp. 21–65.—Schizopoden der südlichen Nordsee, TESCH Helder Jaarb. Onderz Zee **1910** pp. 33–83.—Kara Sea, STAPPERS Duc D'Orléans Camp. Arct. 1907 pp. 131–137.

Amblyops tenuicauda **sp. n.** S.W. Ireland and Färö Channel, TATTERSALL Dublin Fish. Ireland Sci. Invest. **1910** ii p. 43 figs.

Bathymysis Helgae, TATTERSALL t.c. p. 54 figs.

Chunomysis diadema, TATTERSALL t.c. p. 56 figs.

Dactylamblyops thaumatops p. 38, figs., *goniops* p. 40 figs., TATTERSALL t.c.

Dactylerythrops dactylops p. 32 figs, *bidigitata* p. 34 figs., *gracilura* p. 35 figs., TATTERSALL t.c.

Lophogaster typicus young stages, TATTERSALL t.c. p. 21.

Metamblyops oculata, TATTERSALL t.c. p. 50 figs.

Michthyops **gen. n.** near *Calyptomma*, type *parva*, TATTERSALL t.c. p. 61 fig.

Mysis mixta Wanderungen, OTTERSTRØM Kobenhavn Medd. Havunders. Ser. Plankton 1 Nr. 9 10 pp. fig.—*M. oculata* var. *relicta*, ZIMMER Nordisches Plankton Lfg **14** p. 179.

Paramblyops bidigitata **sp. n.** S.W. Ireland, TATTERSALL Dublin Fish. Ireland Sci. Invest. **1910** ii p. 48 figs.

Pseudomma sp., TATTERSALL t.c. p. 47 fig.

SYNCARIDA.

†*Palaeocaris praecursor* morphology and affinities, CALMAN Geol. Mag. Dec. V **8** p. 488 figs. 1–3.

†*Pleurocaris* **gen. n.** (*Syncarida ?*) *annulatus* **sp. n.** Coal Measures, Coseley near Dudley, England, CALMAN t.c. p. 156 fig. & p. 494 fig. 5.

†*Pracanaspides* H. Woodw. ident. with *Palaeocaris* Meek & Worthen, CALMAN t.c. p. 488.

STOMATOPODA.

Gonodactylus chiragra in der Adria, STEUER Wien SitzBer. Ak. Wiss. Abt. I **120** p. 732 figs.—*G.* (*Protosquilla*) *nefandus* **sp. n.** Indian Seas, KEMP Rec. Ind. Mus. Calcutta **6** p. 93.

Lysiosquilla spinosa p. 139 fig., *brazieri* p. 139, CHILTON Wellington Trans. N. Zeal. Inst. **43.**—*L. insignis* **sp. n.** Andaman Ids., KEMP Rec. Ind. Mus. Calcutta **6** p. 94.

Odontodactylus southwelli **sp. n.** Indian Seas, KEMP t.c. p. 94.

Protosquilla tanensis **sp. n.** Japan, FUKUDA Dobuts. Z. Tokyo **23** pp. 173–175 figs. & Annot. Zool. Jap. Tokyo **7** p. 285 figs.

Squilla armata, CHILTON Rec. Canterbury Mus. **1** p. 306.—*S. armata* p. 135 figs., *affinis* p. 137 figs., CHILTON Wellington Trans. N. Zeal. Inst. **43**.—*S. gilesi* p. 95, *hieroglyphica*, *gonypetes* p. 96, *boopis*, *holoschista* p. 97, *interrupta* p. 98, *wood-masoni*, *annandalei* p. 99, **spp. n.**, *oratoria* var. n. *perpensa*, Indian Seas, KEMP Rec. Indian Mus. Calcutta **6**.—*S. quadraticauda* **sp. n.** Japan, FUKUDA Dobuts. Z. Tokyo **23** pp. 173–175 figs. & Annot. Zool. Jap. Tokyo **7** p. 287 figs.—*S.* maxillary glands, WOODLAND Nature **88** p. 26.

CUMACEA.

Kara Sea, STAPPERS Duc D'Orléans Camp. Arct. 1907 pp. 99–123.

Campylaspis platyuropus Siam p. 364, *orientalis* Korea p. 365, **spp. n.**, figs., CALMAN London Trans. Zool. Soc. **18**.

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Cumella key to spp. p. 344, *forficula* Siam p. 345, *clavicauda* W. Indies p. 346, *leptopus* W. Indies p. 347, *hispida* Siam p. 347, *serrata* W. Indies p. 348, *laevis* Siam p. 350, **spp. n.**, figs., CALMAN t.c.

Diastylidae key to genera, CALMAN t.c. p. 366.

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Diastylopsis elongata p. 379, *crassior* p. 381, N. Zealand, **spp. n.**, figs., CALMAN London Trans. Zool. Soc. **18**.

Gynodiastylis **gen. n.** (*Diastylidae*) p. 367, *carinata* N. Zealand p. 368, *laevis* N. Zealand p. 371, *costata* Siam p. 372, *bicristata* Siam and Japan p. 374, **spp. n.**, figs., CALMAN t.c.

Leptostylis gracilis p. 116 figs., *borealis* p. 120 figs., STAPPERS Duc D'Orléans Camp. Arct. 1907.

Leucon nasica p. 100 fig., *nasicoides* p. 102 fig., *Nathorsti* p. 104, *fulvus* p. 105 fig., *pallidus* p. 106 figs., *acutirostris* p. 107 fig., STAPPERS t.c.

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Petalosarsia declivis STAPPERS Duc D'Orléans Camp. Arct. 1907 p. 121 figs.

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Vaunthompsonia note on spelling, STEBBING Proc. Linn. Soc. **123** p. 69.

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Kara Sea, STAPPERS Duc D'Orléans Camp. Arct. 1907 pp. 83–86.

Pseudotanais lilljeborgi, STAPPERS t.c. p. 86 fig.

Sphyrapus anomalus, STAPPERS t.c. p. 83 figs.

ISOPODA.

Blood-coagulation, TAIT Plymouth J. Mar. Biol. Ass. **9** p. 192.

Die nordischen Isopoden, TATTERSALL Nordisches Plankton Lfg 14 pp. 181–313.—North Sea, ZIRWAS Wiss. Meeresunters. Kiel Abt. Kiel N.F. **12** pp. 73–118.—Kara Sea, STAPPERS Duc D'Orléans Camp. Arct. 1907 pp. 87–97.—Southern Patagonia, ORTMANN Rep. Princeton Univ. Exp. Patagonia **3** p. 645.—New Zealand, CHILTON Rec. Canterbury Mus. **1** pp. 309–311.—Kermadec Ids., CHILTON Wellington Trans. N. Zeal. Inst. **43** pp. 567–571.

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Asellus Switzerland revision, CARL Cat. Invert. Suisse fasc. **4** pp. 14–17.—*A. aquaticus* Aeussere Anatomie, Gehörsinn, Begattung, TSCHETWERIKOFF Moskva Bull. Soc. nat. **24** 4 pp. 377–509 pls. vii viii.—*A. aquaticus* Regeneration, HANKÓ Állatt. Közlem. **10** pp. 117–127 & 168 figs.—*A. aquaticus* Häutung und

Regeneration, HANKÓ t.c. pp. 194–204 & 230–231.—*A. aquaticus*, regeneration of antenna, WEGE Zool. Jahrb. Jena Abt. f. allg. Zool. **30** 1911 pp. 217–320 2 Taf.—*A. communis* reactions, BANTA J. Exp. Zool. **8** pp. 243–310 & 439–488.

Caecidotea alabamensis **sp. n.** Alabama p. 572 figs., STAFFORD Pomona College J. Ent. **3**.—*C. stygia* reactions, BANTA J. Exp. Zool. **8** pp. 243–310 & 439–488.

Eurycope mutica, STAPPERS Duc D'Orléans Camp. Arct. 1907 p. 95 figs.

Janiropsis longiantennata **sp. n.** Japan, THIELEMANN München Abh. Ak. Wiss. Suppl. 2 Abh. 3 p. 70 figs.

Ioldella Chuni **sp. n.** Japan, THIELEMANN t.c. p. 72 figs.

Jaerella **gen. n.** (*Janiridae*) p. 633, *armata* **sp. n.** north-west Pacific p. 634 fig., RICHARDSON Proc. U. S. Nation. Mus. **40**.

Munna brandti **sp. n.** Nordsee, ZIRWAS Wiss. Meeresunters. Kiel Abt. Kiel N.F. **12** p. 96 figs.—*M. hansoni* **sp. n.** Nova Zembla, STAPPERS Duc D'Orléans Camp. Arct. 1907 p. 91.

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Aega Dofleini **sp. n.** Japan, THIELEMANN München Abh. Ak. Wiss. Suppl. 2 Abh. 3 p. 28 figs.—*A. ornata* **sp. n.** Atlantic coast southern U.S., RICHARDSON Proc. U. S. Nation. Mus. **40** p. 623 figs.

Agarna carinata synonym of *A. cumulus* (Haller), RICHARDSON Washington D.C. Proc. Biol. Soc. **24** p. 98.

Amphoroidea elegans **sp. n.** S. Australia, BAKER Adelaide S. Aust. Trans. R. Soc. **35** p. 89 figs.

Braga fluviatilis **sp. n.**, RICHARDSON Bul. Muséum Paris **1911** p. 94 figs.

Brotherus ident. with *Argathona*, STEBBING Rec. Ind. Mus. Calcutta **6** p. 179.

Cassidias trituberculata **sp. n.** Japan, THIELEMANN München Abh. Ak. Wiss. Suppl. **2** Abh. 3 p. 56 figs.

Cassidina sulcata **sp. n.** Japan, THIELEMANN t.c. p. 59 figs.

Cirolana albicaudata subsp. n. *japonica* p. 8 figs., *C. harfordi* subsp. n. *japonica* p. 11 figs., *C. chiltoni* subsp. n. *japonica* p. 15 figs., THIELEMANN t.c.

Cymodoce japonica, THIELEMANN t.c. p. 53 figs.—*C. tuberculata* N. Zealand, introduced, CHILTON Wellington Trans. N. Zeal. Inst. **43** p. 132.

Cymothoa eremita, THIELEMANN München Abh. Ak. Wiss. Suppl. 2 Abh. 3 p. 39 figs.

Exosphaeroma gigas p. 646, *lanceolatum* p. 647, ORTMANN Rep. Princeton Univ. Exp. Patagonia **3**.—*E. oregonensis*, THIELEMANN München Abh. Ak. Wiss. Suppl. **2** Abh. 3 p. 51 figs.

Gnathia Halidaii fixation, BOUTAN Paris C. R. Acad. sci. **153** pp. 639–641.

Irona melanosticta, THIELEMANN München Abh. Ak. Wiss. Suppl. 2 Abh. 3 p. 45 figs.

Livoneca caudata, THIELEMANN t.c. p. 42 figs.

Meinertia trigonocephala p. 35 figs., *oxyrrhynchaena* p. 36 figs., THIELEMANN t.c.

Paracassidina **gen. n.** (*Sphaeromidae. platybranchiatae*) *pectinata* **sp. n.** W. Australia, BAKER Adelaide S. Aust. Trans. R. Soc. **35** p. 90 figs.

Rhexana verrucosa, THIELEMANN München Abh. Ak. Wiss. Suppl. 2 Abh. 3 p. 34 figs.

Rhexanella **nom. n.** for *Rhexana* Schiödte and Meinert 1883 non Sörensen 1879, STEBBING Rec. Ind. Mus. Calcutta **6** p. 179.

Rocinda maculata, THIELEMANN München Abh. Ak. Wiss. Suppl. 2 Abh. 3 p. 31.

Serolis polaris p. 396 fig., *laevis* p. 399 fig., **spp. n.**, S. Sandwich Ids., RICHARDSON An. Mus. Nac. Buenos Aires ser. 3 **14**.

Sphaeroma annandalei **sp. n.** Port Canning India, STEBBING Rec. Ind. Mus. Calcutta **6** p. 181 figs.

Tachea chinensis **sp. n.** Shangai (Süsswasser ?), THIELEMANN München Abh. Ak. Wiss. Suppl. 2 Abh. 3 p. 19 figs.

Tridentella japonica **sp. n.** Japan, THIELEMANN t.c. p. 22 figs.

Typhlocirolana lulli **sp. n.** Mallorca, PUJIULA Zaragoza Bol. Soc. Arag. **10** p. 181 figs.

VALVIFERA.

Antarcturus antarcticus sp. n. [see 1910], BOUVIER An. Mus. Nac. Buenos Aires ser. 3 **14** p. 410 figs.—*A. furcatus* note, BOUVIER Paris Ann. Inst. océanogr. **3** fasc. 3 p. 38.

Arcturella (*? Arcturopsis*) *cornuta* **sp. n.** N. Atlantic, KOEHLER Bul. Inst. Océan. Monaco No. **214** p. 39 figs.

Arcturina **gen. n.** (*Arcturidae*) p. 53, *rhomboidalis* **sp. n.** N. Atlantic p. 55 figs., KOEHLER t.c. p. 55 figs.

Arcturopsis **gen. n.** (*Arcturidae*) p. 8, *senegalensis* p. 9, *rudis* p. 20, *meditensis* p. 30, **spp. n.**, N. Atlantic, figs., KOEHLER t.c.—See also *Arcturella*.

Astacilla mediterranea **sp. n.** Mediterranean, KOEHLER t.c. p. 44 figs.

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Cleantis strasseni **sp. n.** Japan, THIELEMANN München Abh. Ak. Wiss. Suppl. 2 Abh. 3 p. 67 figs.

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Branchiophryxus caulleryi **sp. n.** N. Atlantic, KOEHLER t.c. p. 26 figs.

Epipenaeon japonica **sp. n.** Japan, THIELEMANN München Abh. Ak. Wiss. Suppl. **2** Abh. 3 p. 79 figs.

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Zonophryxus grimaldii **sp. n.** N. Atlantic, KOEHLER t.c. p. 16 figs.

ONISCOIDEA.

Ireland, keys to all spp., PACK-BERESFORD & FOSTER Dublin Proc. R. Irish Acad. **29** B pp. 165–190 pl. viii.—Ireland, records, FOSTER Irish Nat **20** p. 95; STEPHENS Irish Nat. **20** p. 195.—Switzerland, revision, CARL Cat. Invert. Suisse fasc. **4** pp. 18–63 figs.

Armadillidium ficalbii **sp. n.** Monti Pisani, Italia, ARCANGELI Atti Soc. tosc. sc. nat. Memorie **27** pp. 187–204.

Cubaris walkeri **sp. n.**. Mexico, PEARSE Rep. Mich. Acad. Sci. **13** p. 108 figs.

Eluma purpurascens, PACK-BERESFORD & FOSTER Dublin Proc. R. Irish Acad. **29** B p. 185 fig.

Exalloniscus **gen. n.** near *Alloniscus*, genotype *coecus* Dollf., STEBBING Rec. Ind. Mus. Calcutta **6** p. 188.

Hemilepistus klugii, STEBBING t.c. p. 186 figs.

Ligia oceanica colour change, TAIT J. Physiol. Cambridge **40** pp. xl-xli.—Blood-coagulation, TAIT Q. J. Exp. Physiol. London **3** p. 1 figs.

Metoponorthus synon. of *Porcellionides*, STEBBING Rec. Ind. Mus. Calcutta **6** p. 188.—*M. melanurus*, PACK-BERESFORD & FOSTER Dublin Proc. R. Irish Acad. **29** B p. 181 fig.

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Corycella **gen. n.** (*Corycaeidae*) p. 283, key to spp. p. 284, *gibbula* p. 284, *brevis* **sp. n.** p. 285 figs., *concinna* p. 286, *carinata* p. 286 figs., *curta* **sp. n.** p. 286 figs., *sp.* p. 287 figs., Christmas Island, Indian Ocean, FARRAN t.c.

Cyclops spp., Finland, MARTENS Helsingfors Medd. Soc. Fauna et Fl. Fenn. **36** pp. 109 & 220.—*C.* revision of N. Amer. spp. p. 1067, *tenuis* **sp. n.** Arizona p. 1085 figs., MARSH Trans. Wis. Acad. Sci. **16.**—*C. dybowskyi* var. n. *Fortii* Asia Minor, BREHM Arch. Hydrobiol. **6** p. 487.—*C.* in relation to Guinea worm, ALCOCK Entomol. for Medical Officers p. 315.—*C.* protozoan parasite, GRANDORI Monit. Zool. Ital. **22** p. 287 fig.

Dactylopodella clypeata **sp. n.** Norway, SARS Crustacea of Norway **5** p. 373 figs.

Dactylopodopsis **gen. n.** near *Dactylopusia* p. 371, *dilatata* **sp. n.** Norway p. 372 figs., SARS t.c.

Dactylopusia latipes, SARS t.c. p. 370 figs.

Diaptomus and allied genera, distrib., TOLLINGER Zool. Jahrb. Abth. f. Syst. **30** pp. 1–302 4 pls. and figs.—*D. castor* record and microsporidian parasite, CÉPÈDE Ann. Biol. lacustre **5** pp. 27–32 figs.—*D. laciniatus* in Deutschland, DOUWE Zool. Anz. **38** p. 121.—*D. gracilipes, aculeatus*, **spp. n.**, Brasilia, DOUWE Zool. Anz. **37** p. 162 figs.—*D. salinus*, GURNEY Ann. Mag. Nat. Hist. ser. 8 **7** p. 31.

Dinematura producta male, BRIAN Monitore zool. ital. **22** pp. 197–202.

Disseta atlantica **sp. n.** Atlantic, WOLFENDEN Deutsche Südpolar Exp. **12** p. 313.—*D. maxima* **sp. n.** p. 330 figs. California, ESTERLY Univ. Cal. Pub. Zool. **6.**

Drepanopsis **gen. n.** near *Drepanopus*, *frigidus* **sp. n.** Atlantic, Antarktis, WOLFENDEN Deutsche Südpolar Exp. **12** p. 245 figs.

Ectinosoma tenuireme, SARS Crustacea of Norway **5** p. 438 figs.

Enterocola spp., situation in host, BRÉMENT Bul. Muséum Paris **1911** pp. 69–75 figs.

Epactophanes richardi, BREHM Medd. Groul. **54** p. 309 figs.

Ergasilus key to spp. p. 326, *caeruleus* Indiana p. 334 figs., *versicolor* Indiana p. 341 figs., *manicatus* Atlantic Coast p. 337 figs., **spp. n.**, notes on other spp., WILSON Proc. U. S. Nation. Mus. **39.**

Eucalanus elongatus vertical migrations, ESTERLY Berkeley Univ. Cal. Pub. Zool. **8** pp. 1–7.

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Euchirella spinosa Atlantic, *rostromagna* Antarktis p. 235, *gracilis* p. 237, *similis* p. 238, *maxima* p. 238 Atlantic, *elongata* p. 239, *hirsuta* p. 240 Antarktis, **spp. n.**, with notes on other spp., figs., WOLFENDEN Deutsche Südpolar Exp.

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Gaetanus divergens p. 226, *brevicaudatus* p. 227, *recticornis* p. 228, *rectus* p. 232, **spp. n.**, Atlantic, with notes on other spp., figs., WOLFENDEN Deutsche Südpolar Exp. 12.—*G. secundus* **sp. n.** p. 317 figs. California, ESTERLY Univ. Cal. Pub. Zool. **6**.

Gaidius tenuispinus, WOLFENDEN Deutsche Südpolar Exp. 12 p. 223 figs.

Gaussia scotti, WOLFENDEN t.c. p. 290 figs.

Haloptilus major **sp. n.** Trop. Atlantic, WOLFENDEN t.c. p. 324.

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Hemirhabdus **gen. n.** near *Heterorhabdus*, *grimaldii* p. 309 figs., *falciformis* **sp. n.** S. Atlantic p. 310 figs., WOLFENDEN Deutsche Südpolar Exp. 12.

Heterocalanus "gen. n." near *Megacalanus*, *medius* "sp. n." [see 1906] Atlantik, WOLFENDEN t.c. p. 201 figs.

Hypsicalanus **gen. n.** near *Spinocalanus*, *gracilis* **sp. n.** Cap Verdische Ins., WOLFENDEN t.c. p. 219 figs.

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Idomenella coronata, SARS t.c. p. 375 figs.

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Isocalanus **gen. n.**, *major* p. 347 figs., *minor* p. 349 figs., **spp. n.** Kap Verden, WOLFENDEN Deutsche Südpolar Exp. 12.

Lampoidopus **gen. n.** *marki* **sp. n.** Bermudas, ESTERLY Proc. Amer. Acad. Arts Sci. **47** p. 219 figs.

Laophonte bulbifera **sp. n.** Lamlash, Scotland, NORMAN London Trans. Linn. Soc. ser. 2 Zool. **11** p. 137 figs.—*L. karmensis* **sp. n.** Norway, SARS Crustacea of Norway **5** p. 426 figs.

Leptastacus p. 416, *macronyx* p. 417 figs., SARS t.c.

Leptomesochra **gen. n.** near *Mesochra* p. 418, *attenuata* p. 419, *tenuicornis* **sp. n.** Norway p. 420, *confluens* **sp. n.** Norway p. 421 figs., SARS t.c.

Lernaeenicus spp., hosts, BAUDOUIN Bul. Muséum Paris **1910** pp. 383–384. —*L. sardinae* fixation, BAUDOUIN Paris C. R. ass. franç. avanc. sci. **38** (Lille) pp. 651–662 fig.—*L. sardinae* var. *moniliformis*, BAUDOUIN op. cit. **39** pp. 163–167.

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Lophothrix simplex p. 268 figs., *similis* p. 269 figs., *quadrispinosa* p. 269 figs., *varicans* p. 270 figs., **spp. n.** Atlantic, with notes on other spp., WOLFENDEN Deutsche Südpolar Exp. **12**.

Lucicutia major p. 317, *ovalis* p. 319 figs., *bicornuta* p. 321 figs., Atlantic, *frigida* Antarktic p. 320 figs., **spp. n.**, with notes on other spp., WOLFENDEN t.c.

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Maraenobiotus brucei p. 309, *Danmarki* **sp. n.** p. 310 figs. Grönland, BREHM Medd. Grønl. **45**.

Megacalanus princeps, WOLFENDEN Deutsche Südpolar Exp. 12 p. 196 figs.

Mesochra exigua **sp. n.** Norway, SARS Crustacea of Norway **5** p. 395 figs.

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Mesorhabdus brevicaudatus, WOLFENDEN t.c. 12 p. 312.

Mesundeuchaeta **gen. n.** near *Undeuchaeta*, *asymmetrica* **sp. n.** Atlantic, WOLFENDEN t.c. p. 244 figs.

Metridia notes on spp., WOLFENDEN t.c. p. 286 figs.

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Nitocra pucilla **sp. n.** Norway, SARS t.c. p. 396 figs.

Onchocalanus frigidus Antarktis p. 276, *suberistatus* S.-Atlantic p. 278 figs., **spp. n.**, with notes on other spp., WOLFENDEN Deutsche Südpolar Exp. **12.**—*O. latus* **sp. n.** p. 326 figs., California, ESTERLY Univ. Cal. Pub. Zool. **6.**

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Oxycalanus gracilis **sp. n.** Trop. Atlantic, WOLFENDEN Deutsche Südpolar Exp. **12.**

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Paraugaptilus meridionalis **sp. n.** Kap Verden, WOLFENDEN Deutsche Südpolar Exp. **12** p. 353 figs.

Phagus **gen. n.** genotype *Bomolochus muraenae* p. 399, WILSON Proc. U. S. Nation. Mus. **39.**

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Phyllopodopsyllus bradyi, SARS t.c. p. 409 figs.

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Platycopia **gen. n.** (*Platycopiidae*) p. 14, *perplexa* **sp. n.** Norway p. 4 figs., SARS Arch. Math. Naturv. Kristiania **31** No. 7.

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Pseudocyclops magnus **sp. n.** Bermuda, ESTERLY Proc. Amer. Acad. Arts Sci. **47** p. 223 figs.

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Pseudolaophonte p. 427, *spinosa* p. 428 figs., SARS Crustacea of Norway **5.**

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Racovitzanus antarcticus, WOLFENDEN Deutsche Südpolar Exp. **12** p. 259 figs.

Rhincalanus notes on spp., WOLFENDEN t.c. p. 193.

Rhizothrix gracilis, SARS Crustacea of Norway p. 430 figs.

Sarcotretes **gen. n.** (*Lernaeidae*) *scopeli* **sp. n.** N. Atlantic, JUNGERSEN Kobenhavn Nath. Medd. **64** p. 1 figs.; Nature **88** p. 25.

Scolecithrix polaris Antarktis p. 252, *acutus* p. 253, *aequalis* p. 255, *medius* p. 256, *magnus* p. 258, Atlantic **spp. n.**, with notes on other spp., figs., WOLFENDEN Deutsche Südpolar Exp. **12.**—*S. vorax* p. 327, *angusta* p. 328, **spp. n.** California, figs., ESTERLY Univ. Cal. Pub. Zool. **6.**

Spinocalanus horridus **sp. n.** p. 216 figs., *magnus* p. 216 figs., *antarcticus* **sp. n.** p. 217 figs., Antarktis, WOLFENDEN Deutsche Südpolar Exp. **12.**

Stenheliopsis latifurca p. 392, *media* p. 394, **spp. n.** Norway, with figs., SARS Crustacea of Norway **5.**

Stenocaris minor, SARS t.c. p. 434 figs.

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Stephus notes on spp., WOLFENDEN Deutsche Südpolar Exp. **12** p. 204 figs.

Tachidiopsis **gen. n.** near *Tachidiella* p. 434, *cyclopoides* **sp. n.** Norway p. 435 figs., SARS Crustacea of Norway **5.**

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Talacalanus [? **gen. n.**] *calaminus*, WOLFENDEN Deutsche Südpolar Exp. **12** p. 279 figs.

Temora kerguelensis sp. n. Kerguelen, Wolfenden t.c. p. 358.

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Tetragoniceps p. 410, *scotti* nom. n. p. 411 figs., Sars Crustacea of Norway **5**.

Thersitina notes, Wilson Proc. U. S. Nation. Mus. **39** p. 347.

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Argulus Bindesubstanzen, Grobben Wien Arb. Zool. Inst. **19** pp. 75–98 figs.

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Spermatogenese, Schmalz Zool. Anz. **37** pp. 462–471 figs.

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†Devonian Eastern N. America many spp. figd., Clarke Albany N. Y. Mem. St. Mus. **9** Pt. 2 250 pp. 34 pls.—Middle Devonic, Wisconsin, Cleland Wisconsin Geol. Nat. Hist. Surv. Bull. **21** pp. 143–145 figs.—Touraine, Lecointre Feuille jeunes Natural. Paris **40** 1910 pp. 108–111 figs.

†*Amphissites* gen. n. near *Kirkbya* p. 235, genotype *rugosus* sp. n. p. 236, Arkansas, Carboniferous, Girty Ann. New York Acad. Sci. **20**.

Argilloecia affinis sp. n. Madeira, Brady London Proc. Zool. Soc. **1911** p. 596 figs.

Bairdia dubia sp. n. Madeira, Brady t.c. p. 596 figs.

†*Bairdia baconica* sp. n., *balatonica* sp. n., *constans* sp. n., *dadayi* sp. n., *hageniowi*, *harrisiana*, *hungarica* sp. n., *kochi* sp. n., *locrentheyi* sp. n., *pannonica* sp. n., *parvula* sp. n., *plebeja*, *praesubdeltoidea* sp. n., *problematica* sp. n. *p.* var. n. *reniformis*, *silicula*, *subglobosa*, *tenuipunctata* sp. n., *tubifera* sp. n., Ungarn Trias, Méhes Ergebn. d. wiss. Forsch. d. Balatonsees I. Bd. I. Teil Paläont. Anh. III. Bd. pp. 12–22 figs.—*B. attenuata* sp. n. *cestriensis* var. n. *granulosa*, Arkansas, Carboniferous, Girty Ann. New York Acad. Sci. **20** p. 237.—*B.* sp., Bolton London Q. J. Geol. Soc. **67** p. 325 fig.

Candona groenlandica sp. n. Grönland, Brehm Medd. Gronl. **45** p. 313 figs.

Cypretta (*Cypridopsis*) *globulus*, Menzel Rev. Suisse Zool. Genève **19** p. 436 fig.

Cypris vanhoeffeni sp. n. Brasil, Daday Zool. Anz. **38** p. 337 figs.

Cythere crispata p. 596 figs., *cingulata* sp. n. p. 596 figs., Madeira, Brady London Proc. Zool. Soc. **1911**.

†*Cythere fabacea*, *mamillata*, *tenera*, Ungarn Trias, Méhes Ergebn. d. wiss. Forsch. d. Balatonsees I. Bd. I. Teil Paläont. Anh. III. Bd. pp. 22–23 figs.

Cythereis deformis sp. n. Madeira, Brady London Proc. Zool. Soc. **1911** p. 597 figs.

†*Cythereis convexa* var. n. *frequens*, *rostrata* sp. n. Ungarn Trias, Méhes Ergebn. d. wiss. Forsch. d. Balatonsees I. Bd. I. Teil Paläont. Anh. III. Bd. pp. 28–29.

Cytherella (?) *ovalis* sp. n. Madeira, Brady London Proc. Zool. Soc. **1911** p. 600 figs.

†*Cytherella abyssorum* Ungarn Trias, MÉHES Ergebn. d. wiss. Forsch. d. Balatonsees I. Bd. I. Teil Paläont. Anh. III. Bd. pp. 30–31 figs.

†*Cytherida csopakensis* **sp. n.**, *loczyi* **sp. n.**, *perforata* var. *insignis*, *spinosa* **sp. n.**, *subperforata*, *vadaszi* **sp. n.**, Ungarn Trias, MÉHES t.c. pp. 23–25 figs.

Cytherideis subulata var. *crenulata* nom. n. for *fasciata* Robertson, BRADY London Proc. Zool. Soc. **1911** p. 600 fig.

†*Cytherideis finalyi* **sp. n.** Ungarn Trias, MÉHES Ergebn. d. wiss. Forsch. d. Balatonsees I. Bd. I. Teil Paläont. Anh. III. Bd. pp. 27–28 figs.

Cytherura maculosa, *cribrosa*, *fossulata*, **spp. n.** Madeira, BRADY London Proc. Zool. Soc. **1911** p. 599 figs.

†*Cytherura mutila* **sp. n.**, var. n. *minor* Ungarn Trias, MÉHES Ergebn. d. wiss. Forsch. d. Balatonsees I. Bd. I. Teil Paläont. Anh. III. Bd. p. 27 figs.

†*Eurychilina latimarginata*, RAYMOND Pittsburgh Ann. Carnegie Mus. **7** p. 255 fig.

†*Glyptopleura* **gen. n.** near *Kirkbya* p. 236, genotype *inopinata* p. 237, *angulata* p. 237, **spp. n.** Arkansas, Carboniferous, GIRTY Ann. New York Acad. Sci. **20**.

†*Halliella? retiferiformis* **sp. n.** Arkansas, Carboniferous, GIRTY t.c., p. 233.

†*Kirkbya lindahli* var. n. *arkansana* p. 234, *oblonga* var. n. *transversa* p. 234, *reflexa* **sp. n.** p. 235, *simplex* **sp. n.** p. 235, Arkansas, Carboniferous, GIRTY t.c.

†*Klocdenia monroensis* **sp. n.** Michigan p. 206 fig. Silurian, GRABAU Michigan Geol. Biol. Surv. Pub. Geol. Ser. **1**.

†*Leperditia altoides* **nom. n.** Ohio p. 205 fig., notes on other Silurian spp., GRABAU t.c.—*L. limatula*, RAYMOND Pittsburgh Ann. Carnegie Mus. **7** p. 253 figs.

Loxoconcha obesa **sp. n.** p. 597 figs., *decipiens* p. 597 figs., *subalata* **sp. n.** p. 598 figs., Madeira, BRADY London Proc. Zool. Soc. **1911**.

†*Loxoconcha cyrenaica* **sp. n.** Middle Eocene, Cyrenaica, CHAPMAN London Q. J. Geol. Soc. **67** p. 660 fig.—*L. Annae* **sp. n.**, *pannonica* **sp. n.**, *pusilla*, Ungarn Trias, MÉHES Ergebn. d. wiss. Forsch. d. Balatonsees I. Bd. I. Teil Paläont. Anh. pp. 25–26 figs.

†*Melanella* **gen. n.** near *Jonesella*, *hemiliscus* **sp. n.** Ordovician Montgomeryshire, WADE London Q. J. Geol. Soc. **67** p. 451 figs.

Paradoxostoma gracile **sp. n.** Madeira, BRADY London Proc. Zool. Soc. **1911** p. 600 figs.

†*Paraparchites nickelsi* var. n. *cyclopea* Arkansas, Carboniferous, GIRTY Ann. New York Acad. Sci. **20** p. 232.

†*Pontocypris rara* **sp. n.** Ungarn Trias, MÉHES Ergebn. d. wiss. Forsch. d. Balatonsees I. Bd. I. Teil Paläont. Anh. p. 12 fig.

†*Primitia fayettevillensis* p. 232, *seminalis* p. 233, **spp. n.** Arkansas, Carboniferous, GIRTY Ann. New York Acad. Sci. **20**.—*P. moorefieldana* **sp. n.** Arkansas, Mississippian, GIRTY U. S. Geol. Surv. Bull. No. **439** p. 106 figs.

†*Schmidtella crassimarginata*, RAYMOND Pittsburgh Ann. Carnegie Mus. **7** p. 256 fig.

Stenocypris malcolmsoni, MENZEL Rev. Suisse Zool. Genève **19** p. 434 figs.

Xestoleberis latissima, *nigromaculata*, **spp. n.** Madeira, BRADY London Proc. Zool. Soc. **1911** p. 598 figs.

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Muscle adducteur des scuta, JOLEAUD Paris C. R. soc. biol. **70** p. 389.—rate of growth, ANNANDALE Bombay J. Nat. Hist. Soc. **20** pp. 1170–1172.—nomenclature, PILSBRY Zool. Anz. **37** pp. 33–35.

Argentine, LAHILLE Rev. Jard. zool. Buenos Aires Ép. 2 **6** pp. 69–89 figs.—Southern Patagonia, ORTMANN Rep. Princeton Univ. Exp. Patagonia **5** p. 637.—Japan, notes on spp., KRÜGER Zool. Anz. **38** pp. 459–464.—New Zealand, notes on spp., CHILTON Rec. Canterbury Mus. **1** pp. 311–312 figs.—Kermadec Ids., CHILTON Wellington Trans. N. Zeal. Inst. **43** pp. 571–572.

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Balanus rostratus p. 73 fig., *r.* subsp. n. *apertus* p. 74 figs., *crenatus* p. 75 figs., *evermanni* p. 76 figs., *hoekianus* **sp. n.** Bering Sea p. 77 figs., *callistoderma* **sp. n.** Japan p. 78 figs., PILSBRY t.c.—*B. tintinnabulum* p. 46 figs., *poecilotheca* **sp. n.** Japan p. 48 figs., *trigonus* p. 49 figs., *amphitrite* var. *niveus* p. 51 fig., *crenatus* p. 53 figs., *cariosus* p. 54 figs., *corolliformis* p. 55 figs., KRÜGER München Abh. Ak. Wiss. Suppl. 2 Abh. 6.—*B.* spp., croissance et mort, TOPSENT Ann. Inst. océan. Paris 2 fasc. 6 4 pp. figs.—*B.* spp. Verbreitung, Habitat, Verlängerung der Schale, Murman-Meer, MAURODIADI Varšava Izv. Univ. 1911 3 pp. 14–16 4 pp. 17–28 figs.

†*Balanus dolosus, dollfusi,* LECOINTRE Feuille jeunes natural. Paris 40 1910 p. 138 figs.—†*B.* (*Acasta*) *schafferi* **sp. n.** Eggenburg, ALESSANDRI Wien Abh. Geol. ReichsAnst. 22 p. 124 figs.

Calantica trispinosa, KRÜGER München Abh. Ak. Wiss. Suppl. 2 Abh. 6 p. 11 figs.

Chelonobia testudinaria, KRÜGER t.c. p. 57 figs.

Chionelasmus **subgen. n.** of *Catophragmus,* genotype *C. darwini* Pilsbry, PILSBRY Washington D.C. Bull. Bur. Fish. 29 p. 83.

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XI. ARACHNIDA

TO WHICH ARE ADDED

GIGANTOSTRACA (XIPHOSURA, TRILOBITA, EURYPTERIDA), PANTOPODA, TARDIGRADA, PENTASTOMIDA, MYRIOPODA and PROTOTRACHEATA

ARRANGED BY

W. T. CALMAN, D.Sc.

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Argenna obesa **sp. n.** New York p. 399 figs., EMERTON New Haven Trans. Conn. Acad. **16**.

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Coenothele gregalis habits, SEMICHON Paris Bul. Soc. ent. **1910** pp. 338–340 fig.

Devade pusilla **sp. n.** Algérie, SIMON Paris Ann. Soc. ent. **79** p. 279.

Dictyna armata **sp. n.** North Carolina, BANKS Philadelphia Proc. Acad. Nat. Sci. **63** p. 444 fig.—*D. innocens*, KULCZYŃSKI Krakow Bull. Intern. Acad. **1911** B p. 13 fig.—*D. patellaris* p. 281 fig., *laeviceps* p. 284, **spp. n.**, *sedilloti* subsp. n. *deserta* p. 284, Algérie, SIMON Paris Ann. Soc. ent. **79**.—*D. simoni* **nom. n.** for *D. cruciata* Simon p. 111, PETRUNKEVITCH New York Bull. Amer. Mus. Nat Hist. **29**.—*D. terrestris* **sp. n.** Massachusetts p. 399 figs., EMERTON New Haven Trans. Conn. Acad. **16**.

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Ostearius **gen. n.** near *Gongylidium*, type *nigricauda* Cb., HULL Newcastle Trans. Nat. Hist. Soc. n. ser. **3** p. 583.

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Tetragnatha ferox var. n. *crossae* New Zealand, HOGG London Proc. Zool. Soc. **1911** p. 300 figs.—*T. gracilis* p. 181 figs., *serra* p. 182 figs., *hasselti* p. 185 figs., *mandibulata* p. 186 figs., MERIAN Zool. Jahrb. Syst. **31**.—*T. mertoni* **sp. n.** Aru- u. Kei-Ins., STRAND Frankfurt Abh. Senckenb. Ges. **34** p. 137 figs.—*T. modesta* **sp. n.** Seychelles, HIRST London Trans. Linn. Soc. ser. 2 Zool. **14** p. 385 fig.—*T. papuana* p. 446, *lanciuans* p. 447, *modica* p. 449, *micrura* p. 450, figs., **spp. n.** New Guinea, KULCZYNSKI Nova Guinea **5**.—*T. phaeodactyla* **sp. n.** New Guinea, KULCZYNSKI op. cit. **9** p. 115 figs.—*T. rimitarae* **sp. n.** Austral. Inseln, STRAND Arch. Natg. Berlin **77** Bd 1 p. 205.

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VITCH New York Bull. Amer. Mus. Nat. Hist. **29.**—*C. praestans* **sp. n.** Kew, PICKARD-CAMBRIDGE Dorchester Proc. Dorset Nat. Hist. F. Cl. **32** p. 50 figs.

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Synopsis with figs. of British and Irish spp., Kew Dublin Proc. R. Irish Acad. **29** B pp. 38–64 pls. iv–vi.—W. Ireland, Kew Dublin Proc. R. Irish Acad. **31** pt. 38.—Suisse, Lessert Cat. Invert. Suisse fasc. **5** 50 pp.—California, Banks Pomona College J. Ent. **3** pp. 633–640 figs.

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Assamia gravelyi **sp. n.** Ceylon, Roewer Arch. Natg. Berlin **77** Bd. 1 p. 180.

†*Brachypyge carbonis*, Pocock London Monogr. Palaeont. Soc. **64** p. 59 fig.

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†*Curculioides* (*Cryptostemmidae*) p. 38, *ansticii* p. 39 figs., Pocock London Monogr. Palaeont. Soc. **64.**

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†*Eophrynus prestvici*, Pocock London Monogr. Palaeont. Soc. **64** p. 77 figs.

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†*Haptopoda* ord. n., POCOCK London Monogr. Palaeont. Soc. 64 p. 41.

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Galapagos islds. *Lepidoptera.* **Williams, 2759;** *Eudamus* sp. n.

Hawaiia. *Hymenoptera.* **Viereck, 2634;** *Cremastus* sp. n.

Tahiti. *Hymenoptera.* **Wheeler** J. N. York Ent. Soc. 19 p. 262; *Lasius claviger.*

Bismarck Arch. *Coleoptera.* **Möllenkamp, 1621;** *Eurytrachelus* sp. n.—**Prell, 1944;** *Trichogomphus* sp. n.—*Lepidoptera.* **Bastelberger, 115;** *Agathia* 2 spp. n.—*Orthoptera.* **Zacher, 2783;** *Anisolabis* sp. n.

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Neu Mecklenburg. *Lepidoptera.* **Strand, 2432;** *Dysphania* sp. n.

Solomon islands. *Coleoptera.* **Olivier, 1772;** *Atyphella* sp. n.—*Hymenoptera.* **Cockerell, 457;** *Apidae* spp. n: **Cameron, 355;** Hym. par. spp. n.—**Strand, 2413;** *Megachile* sp. n.—*Lepidoptera.* **Hampson, 1000,** *Alypophanes* sp. n.—*Hemiptera.* **Distant, 584;** Heteroptera and Homoptera 7 spp. n: *Heteroptera.* **Distant, 584;** *Axiagastus* sp. n.—*Orthoptera.* **Shelford, 2281;** *Panesthia* sp. n.—Solomon islds. etc. *Diptera.* **Froggatt, 799;** *Dacus* spp. n.—Solomon islands and Trobriand islds. *Coleoptera.* **Arrow, 46;** *Dynastinae* gen. n.

Caroline islds. *Coleoptera.* **Olivier, 1772;** *Atyphella* sp. n.

Samoa. *Lepidoptera.* **Rebel, 1982.**—*Coccidae.* **Lindinger, 1429;** *Melanaspis* sp. n.

Woodlark isld. *Coleoptera.* **Kerremans, 1223;** *Cyphogastra* sp. n.

Fiji islds. *Hymenoptera.* **Friese, 784;** *Megachile* sp. n.—*Lepidoptera.* **Prout, 1951;** *Agathia* sp. n.

New Caledonia. *Coleoptera.* **Fleutiaux, 753;** list.—*Heteroptera.* **Poppius, 1919;** *Miridae* spp. n.—*Coccidae.* **Lindinger, 1429;** 2 spp. n.

New Zealand. *Coleoptera.* **Broun, 276;** *Sagola* 15 spp. n.: **Broun, 277;** *Pselaphidae* spp. n., genn. n.: Chatham Islands. **Broun, 278;** many spp. n.; **Théry, 2520;** *Anilara* sp. n.—*Hymenoptera.* **Stitz, 2383;** Formicidae sp. n.—*Lepidoptera.* **Hamilton, 997;** Excursions: **Hampson, 1000;** *Morrisonia* 2 spp. n.: **Howes, 1123;** 4 spp. n.: **Meyrick, 1588;** *Crambus* sp. n.: **Meyrick, 1594;** spp. n.: **Meyrick, 1595;** *Tortricidae* 2 spp. n.—*Diptera.* **Miller, 1603;** *Helophilus* 2 spp. n.

Falkland islds. *Lepidoptera.* **Hampson, 1000;** *Episilia* sp. n.

Palaearctic Region.

(a) Collectively.

Coleoptera.

Heikertinger, 1030; Halticinenarten Europa und Nordamerika gemeinsam.

Bickhardt, 185; 2 spp. n. *Hister* and *Saprinus.*

Desbrochers, 570; Rhytirhinides spp. n.

Heikertinger, 1033; *Phyllotreta* spp. n.

Jacobson, 1153; Russland und Westeuropa (Russ.).

Jeannel, 1160; *Bathysciinae* spp. n.

Koshantschikov, 1294; *Aphodiini* spp. et varr. n. palaearktischer Asien.

Küster & Kraatz, 1322; n. spp. v. *Phyllobius, Polydrosus, Metallites, Diorrhinus, Eugnathus, Sibinia, Echinocnemus, Bagous.*

Pic, 1855; Notes Coléoptères paléarctiques principalement gallorhénans.

Reitter, 2016; Käfer des Deutschen Reiches. Bd 3.

Reitter, 2003; 11 spp. n.

Hymenoptera.

Howard, 1120; Existe-t-il un changement dans la faune des *Aphelinidæ* en Europe ?

Friese, 782; Neue Bienen.

Girault, 887; *Pentarthron* sp. n.

Lange, 1355; Neue Ichneumoniden.

Mocsáry, 1617; *Chrysididae* spp. n.

Turner, 2580; Mogador *Myzine* sp. n., Persia *Sapyga* sp. n.

Vogt, 2652. *Bombus* spp. n.

Lepidoptera.

Grünberg, 973; *Lasiocampidae, Lemoniidae, Eupterotidae, Bombycidae.*

Jordan, 2224; *Saturniidae* revision.

Lampert, 1353; *Lepidoptera* Europas und Russisch-Asiens (Russ.).

Lucas, 1443; France, Algérie, Tunisie.

Niepelt, 1730; Turkestan 2 spp. n., *Parnassius, Arctia.*

Oberthür, 1746; Faune française et algérienne.

Warren, 2693; *Noctuidae* revision.

Diptera.

Bezzi, 180; Cavernicoles, *Limosina* spp. n.

Sack, 2125; *Syrphiden* spp. n.

Villeneuve, 2639; 2 spp. n. *Angiometopa* and *Calliophrys.*

Wainwright, 2683; Switzerland and Algeria, *Chilosia* 2 spp. n.

Hemiptera.

Bergroth, 147; *Halobatinae* paléarctique.

Horváth, 1109; many spp. n.

Kiritshenko, 1266; Russian empire *Heteroptera* spp. n.

Lindinger, 1429; Turkey and Persia 2 spp. n.

Šulc, 2467; *Trioza* Monographia.

Embioptera.

Krauss, 1303; spp. n.

(b) Europe, collectively.

Insecta.

Ramme, 1975; Reise Oberitalien und Südtirol.

Coleoptera.

Eggers, 664; *Scolytidae* spp. n.

Roubal Ent. Bl. Berlin 7 1911 pp. 237–239; Europae Coleopterorum patriae novae.

Roubal, 2099; 2 spp. n., *Othius* and *Anaspis.*

Hymenoptera.

Viereck, 2635; *Braconidae* spp. n.

Lepidoptera.

Mittbergerer Intern. ent. Zs. 4 p. 280; Verbreitung, *Biston lapponaria.*

Protura.

Rimsky-Korsakow, 2038; *Eosentomon* sp. n. (Russ. + deutsch. Rés.)

(c) North Europe and Siberia.

Insecta.

Dahlgren, 546; Skandinavien, Notizen.

Lundblad Ent. Tidskr. **32** p. 208; Schweden, neue Lokale.

Schneider, 2197; Insektenfauna von Maalselven, Norwegen (Norweg).

Coleoptera.

Gassner, 830; Süd-Transbaikalien und Mongolia.

Helliesen, 1039; New for Norway (Norweg).

Holdhaus, 1084; Fauna der Färöer.

Kniž, 1281; *Holcophilydrus* subgen. n. und *Cercyon*, spp. n. Ostsibirien.

Münster, 1670; Norwegen neue *Staphylinidae*.—**Münster, 1671;** Norwegens *Catops* sp. n. (Norweg).

Sahlberg, 2127; Finlands 3 spp. n.—**Sahlberg, 2128;** Finland *Aleocharidea*.—**Sahlberg** Medd. Soc. Fauna Fenn. **37** p. 54; Finland *Pediacus depressus*.

Sandin, 2140; neu für Schweden.

Semenov, 2258; Ussuri *Rosalia* sp. n.

Hymenoptera.

Aurivillius, 59; Swedish *Tubulifera*.

Forsius, 769; *Tenthredinidae* 2 spp. n.—**Forsius, 770;** Schlupfwespen.—**Forsius, 771;** *Diprion* spp. n. Finland.

Nordenström, 1737; Sweden parasitic *Hym.*

Roman, 2073; Südfinnland Gezogene Ichneumoniden.

Lepidoptera.

Čugunov, 535; Ob-Jenissei-Kanal. (Russ.)

Djakonov, 598; Murmanküste. (Russ.)

Fabritius Medd. Soc. Fauna Fenn. **37** p. 130; *Microlepidoptera* Finland novelties.

Grum-Gržimajlo, 981; Lepidopteren von Troïtzkossawsk und nord. Mongolei.

Lagerberg, 1345; Schweden *Macrolepidoptera*. (Schwed.)

Ljungdahl Ent. Tidskr. **32** p. 126; Schweden. Notizen.

Peyron Ent. Tidskr **32** p. 125; Sweden *Lepidoptera* new localities.

Sheldon, 2280; Jemtland and Lapland short excursion.

Sjöstedt Ent. Tidskr. **32** p. 211; Sweden rare *Lepidoptera*.

Stichel, 2380; Nordisch. Schmetterlingsfauna.

Tschetverikov, 2559; Halbinsel Yamal *Schoyenia* sp. n.

Vretlind Ent. Tidskr. **32** p. 86; Norwegen Imago von *Eriogaster lanestris* var. *arbusculae*.

Wegelius Medd. Soc. Fauna Fenn. **1911** p. 32; Björneborg *Deilephila nerii*.

Werner-Nielsen, 2721; Macrolepidopterstatistisches für Norwegen. (Norw.)

Diptera.

Alverdes, 31; *Trichocladius* sp. n.

Frey Medd. Soc. Fauna Fenn. **37** p. 91; *Diptera* Notizen.

Ringdahl, 2041; Sweden *Merodon equestris* and *Ischyrosyrphus laternarius* new.

Aphaniptera.

Wahlgren, 2682; Norwegen *Ctenophthalmus* sp. n.

Hemiptera.

Poppius, 1917; *Lygus* sp. n. Finland.

Reuter Ent. Tidskr. **32** p. 206; Scandinavia further finds of *Teratocoris herbaticus*.

Wuorentaus Medd. Soc. Fauna Fenn. **37** p. 72; Hemipterenfunde aus Finland. (Finnisch.)

Ephemeroptera. Plecoptera. Thysanoptera.

Trägårdh Ent. Tidskr. **32** pp. 91–104; Sweden *Prosopistoma foliaceum*.

Klapálek, 1272; *Neoperla* sp. n. Ladogebiet.

Bagnall, 79; Norway *Thys.* 2 spp. n.

Orthoptera and *Aptera.*

Ikonnikov, 1138; Ostsibirien *Acridiodea* spp. n.

Linnaniemi, 1430; Apterygotenfauna Norwegens.

Trägårdh, 2551; *Protura* in Schweden gefunden.

(d) British Islands.

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Retrospect for 1910; **Beare, 122.**

The british *Haliplus*, novelties; **Edwards, 662.**

Haliplus sp. n.; **Browne, 280.**

Homalota sp. n.; **Sharp, 2277.**

Atheta liliputana novelty; **Cameron, 346.**

Atheta inhabilis vice *Epipeda nigricans*; **Joy** p. 111 Ent. Mag. **47.**

Tachyporus sp. n.; **Nicholson, 1725.**

Quedius sp. n.; **Sharp, 2275.**

Quedius picipennis; **Joy, 1194.**

Quedius heidenreichi vice *vexans*; **Beare** p. 140 Ent. Mag. **47.**

Stenus formicetorum novelty; **Dollman, 609.**

Lesteva luctuosa novelty; **Donisthorpe, 615.**

Bledius novelties, 2 spp. n.; **Sharp, 2273.**

Bledius diota novelty; **Sharp, 2274.**

Bledius novelties; **Sharp, 2276.**

Two spp. n., *Bledius* and *Rhynchites*; **Joy, 1196.**

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Anisotoma, Liodes sp. n.; **Joy, 1195.**

Anisotoma algirica novelty; **Donisthorpe** p. 44 Ent. Rec. **23.**

Choleva fuliginosa novelty; **Nicholson, 1726.**

Barypithes sp. n.; **Keys, 1231.**

Ceuthorrhynchus marginatus etc.; **Edwards, 663.**

Longitarsus revision, novelty; **Tomlin** & W. E. **Sharp, 2538.**

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List of british ants; **Donisthorpe, 612.**

Tryphoninae, general work, spp. n.; **Morley, 1640.**

Pimpla sp. n.; **Morley, 1638.**

Trichopria sp. n.; **Kieffer, 1250.**

Mymar sp. n.; **Enock, 688.**

Anaphoidea sp. n.; **Girault, 876.**

Polynema brittanum sp. n.; **Girault, 879.**

Macrophya, the british; **Morice, 1636.**

Periclista pubescens novelty; **Morice, 1637.**

Lepidoptera.

Diminishing numbers of british *Lep.*; **Meldola** Entomologist **1911** p. 146.

Rare species; **Porritt** & **Bankes, 1921.**

Rhyacionia 2 spp. n.; **Durrant, 635.**

Papilio machaon various localities; Ent. **44** p. 365.

Colias records; Ent. **44** pp. 299, 322 etc.—*C. edusa*; **Newman** & **Colthrup** p. 276 Ent. Rec. **23.**

Sphinx convolvuli and *A. atropos*; Entomologist **44** pp. 405–407: *Colias* pp. 409 & 410.

Vanessa antiopa in 1911; Ent. **44** p. 324.

S. convolvuli; t.c. pp. 325–327.

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100 novelties, spp. n.; **Verrall, 2619.**

Hilara, novelty; **Carter, 369.**

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Insecta, collectively.

Cornwall; **Rollason, 2072.**

Marlborough; **Meyrick** Rep. Marlborough Coll. Soc. **59** pp. 34–41; Phenology and local lists specially *Lep.*

St. Albans, general notes; **Gibbs** pp. 234–238 Tr. Hertfordsh. Soc. **14.**

Yorkshire Report; **Whitaker** and others Naturalist **36** pp. 51–56.

Lancashire novelties; **Dunlop** Lancash. Nat. **3** pp. 350–356.

Ireland, notes; **Johnson** p. 219 Irish. Nat. **20.**

Ulster, *Lep.* and *Hym.* brief list; **Orr** Irish Natural. **20** p. 36.

Coleoptera.

Devonshire novelties; **de la Garde** p. 66 Ent. Mag. **47.**

Plymouth novelties; **Keys** p. 15 Ent. Mag. **47.**

New Forest *Longitarsus nigerrimus*; **Sharp** p. 257 Ent. Mag. **47.**—New Forest *Atheta picipennis*; **Cameron** p. 214 Ent. Mag. **47**; *Aleochara discipennis*; **Sharp** *l.c.*

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Portsmouth *Oxytelus sculcyi*; **Cameron** p. 111 Ent. Mag. **47.**

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Guilleaume, p. 165 Ann. Soc. ent. Belgique **55**; Belgium *Conopalpus brevicollis*.—**Guilleaume** p. 308 Ann. Soc. ent. Belgique **55**; novelties.

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Andreae, 33; Des Brohltals.

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Breit, 258; 6 spp. n.

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Bernhauer, 160; *Atheta* sp. n.

Breit, 259; Ungarn *Anophthalmus* 2 spp. n.

Csiki, 531; Ungarn *Pholeuon* spp. n.—**Csiki, 530**; Ungarn, many novelties.—**Csiki, 532**; Ungarn 3 spp. n., *Anophthalmus, Drimeotus, Pholeuon*.—**Csiki, 533**; Karpathen.—**Csiki, 534**; Ungarn, *Anthaxia*.

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Sokolar, 2355; Austria *Carabus* sp. n.

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Hymenoptera.

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Goetghebuer, 899; Belgium, *Chironomidae* 3 spp. n.

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Kramer, 1301; Tachiniden der Oberlausitz.

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†**Handlirsch, 1004**; Miocän Krain, *Bibio* sp. n.

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Jaroševskij, 1159; Fauna des Gouv. Charkov (besonders *Diptera, Ichneumonidae*).

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†**Dampf, 547 & 548**; *Palaeopsylla* sp. n.

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le Roi, 1397; Brandenburg.—**le Roi, 1398**; Ostpreussen.

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Šugurov, 2466; Krim (Russ.).

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(f) France.

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Gavoy, 833; Inondations, Carcassonne.

Houlbert, 1113; Faune armoricaine.

Lucas, 1452; *Neuroptera* s.l., short list.

Coleoptera.

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Cadro, 340; Département du Nord.

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Chrétien, 419; Nouveaux.

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Homberg, 1099; Nouvelle *Acidalia.*

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Neuroptera.

Navás, 1689; Saint-Nazaire (Loire-Inférieure).

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Lesne, 1406; *Chionea* en Alsace.

Villeneuve, 2640; *Drosophila* sp. n.

Lesne Feuille jeunes natural. **41** p. 89; Mulhouse.

Hemiptera.

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Mercier, 1564; Notonectes de Nancy.

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Orthoptera.

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(g) South Europe and Mediterranean Basin.

Insecta, collectively.

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Pongrácz, 1910; Creta, *Pseudoneuroptera* et *Neuroptera.*

Holl, 1088; Notes, Algeria.

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Bolivar, 207; Spain *Speocharis* sp. n.

Escalera, 702; Spain *Dorcadion* 3 spp. n.

Heikertinger, 1032; *Psylliodes* spp.n. Nordwestspanien.

Jeannel, 1161; *Bathysciinae* cavernicoles des Pyrénées espagnoles.

Kuntzen, 1326; Zwei neue spanische Timarchen.

Schramm, 2214; Spain *Dorcadion* sp. n.

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Luze, 1476; *Anthobium* und *Mycetoporus* spp. n. Italien.

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Porta, 1922; Italia, *Scaritini*: **1923**; Italia, *Donaciini.*

Teodoro, 2505; *Coccinellidae Chilocorinae*, Padova.

Wichmann, 2743; *Hylastes* sp. n. Vallombrosa.

Champion, 392; Sardinia excursion.

Formánek, 768; Sardinien *Curculionidae* 4 spp. n.

Krausse, 1308; Sardegna novelties.—**Krausse**; Sardische Borkenkäfer; Ent. Bl. 7 pp. 67–68.

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Ragusa, 1972 & 1973; Sicilia, *Agriotes* sp. n.

Vitale, 2648; Nuovi o rari Sicilia.

Gridelli, 934; D'un tronco di quercia.

Bernhauer, 162; *Mayetia* und *Octavius* spp. n. Herzegowina.

Breit, 257; *Laemostenus* sp. n. Kephalonia, *Adelopidius* sp. n. Bosnia.

Krekich, Mayer & Müller, 1311; Isola d'Arbe.

Matits, 1534 & 1535; Serbien *Molops* spp. n.

Meixner, 1554; Sammelexkursion Herzegowina.

Holdhaus, 1086; Dalmatien *Trechus* sp. n.

Müller, 1663; Bosnischer *Parapropus* sp. n.

Müller, 1665; Dalmatia 5 spp. n., *Chennium, Hydraena, Dyschirius, Patrobus* und *Staphylinus.*

Müller, 1664; Österr. Karst, Höhlenkäfer, spp. n.—**Müller, 1666**; Zwei neue Höhlensilphiden Karstländern.

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Müller, 1668; *Brachynus* des Küstenlandes und Dalmatiens.

Reitter, 2001; Zwei Grottensilphiden, Bosnien.

Reitter, 2002; *Charonites* sp. n. Bosnia.

Szombathy, 2501; Bosnien *Corymbites* n. sp.

Luze, 1478; *Philonthus* sp. n. Türkei.

Zürcher, 2796; *Colpotus* sp. n. Cypern.—**Zürcher, 2797**; *Danacaea* sp. n. Chypre. **Zürcher, 2798**; Chypre et 4 spp. n.

Bénard, 134; *Rhyssemus* nouveau du Maroc.

Bourgeois, 237; Nouvel *Haplocnemus* marocain.

Cros, 520; *Meloe* Algeria.

Escalera, 703; Marruecos *Heteromera* 6 spp. n.

Normand, 1738; Tunis 2 spp. n. *Mimocete* and *Chevrolatia*.

Peyerimhoff, 1836; Djurdjura *Paraleptusa* sp. n.—**Peyerimhoff, 1836**; Nord Afrique cavernicole, Djurdjura *Carabidae* gen. n.—**Peyerimhoff, 1839**; Sud-Oranais *Tenebrionidae* 2 spp. n., gen. n.

Pic, 1863; Nord de l'Afrique *Longitarsus* sp. n.

Pionneau Feuille jeunes natural. 41 p. 151; Tunis *Dichirotrichus pubescens*.

Théry, 2520; Algeria *Sphenoptera* sp. n.

Reitter, 2011; *Alphitophagus* sp. n. Kleinasien.

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Hofeneder, 1078; Algier gen. n.

Hymenoptera.

Forel, 758; Fourmis nouvelles.

Mercet, 1563; Spain *Chalcid.* 2 spp. n.

Lepri, 1396; *Chrysididae* del Lazio.

Mantero, 1502; Isola dell' Asinara.

Masi, 1525; Chalcididae italiani spp. n.

Zavattari, 2789; Alpi del Piemonte.

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Graeffe, 913; *Vespidae* des Küstenlandes.

Graeffe, 914; *Heterogyna* des Küstenlandes.

Santschi, 2145; Roumania *Cardiocondyla* sp. n.

Mocsáry, 1616; Creta *Chrysis* n. sp.

Cockerell, 456; Cyprus *Andrena* sp. n.

Buysson, 336a; Mauritanie occidentale 2 spp. n., *Chrysis* and *Pseudomeria*.

Kieffer, 1234; Tangier *Proctotrypidae* 6 spp. n.

Olivier, 1767; N. Africa.

Santschi, 2141; Nouvelles fourmis de Tunisie.

Turner, 2581; Algeria *Palarus* sp. n.

Santschi, 2144; Tunis *Leptothorax* sp. n.

Saunders & Morice, 2157; Algeria *Sphegidae* long list, spp. n.

Strand, 2444; Algier *Melecta* sp. n.

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Lepidoptera.

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Jones, 1175; S. Spain *Rhopalocera*.

Walsingham, 2688; Granada *Symmoca* sp. n.

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Costantini, 497; Nel Modenese.—**Costantini, 498**; Montegibbio, Modena.—**Costantini, 499**; *Hylophila* sp. n.

Perlini, 1829; Monferrato.

Pionneau, 1899; Liste, Sicile et Sardaigne.

Rostagno, 2082; Faunae Romanae.

Rostagno & Zapelloni, 2080; *Lycaenidae* et *Hesperiidae* Faunae Romanae. —**Rostagno & Zapelloni, 2081**; Rhopalocera, Faunae romanae.

Turati, 2568; Italy *Harmodia* and *Phycita*, sp. n., Sardinia *Herminia* sp. n., Sicily *Crambus* sp. n.

Turati, 2570; Sardinien n. spp. *Ephyra, Nola.*

Turati & Verity, 2571; Valderia.

Graeffe, 912; *Fossores* des Küstenlandes.

Schawerda, 2168; Bosniens und Herzegowina.

Stauder, 2368; Adriatischen Küstengebiete.

Graves, 931; Constantinople.

Andres, 35; Marioutwüste bei Alexandrien.

Chrétien, 420; Nord de l'Afrique.

Chrétien, 422; Trois Pyralides de Mauritanie.

Chrétien, 423; Nouveaux genres et espèces de Phycides de Mauritanie.

Dupont, 629; Algérie *Noctuidae* gen. n.

Gibbs, 853; *Rhopalocera.*

Joannis, 1166; Liste Tunisie et Bou-Saada.

Lucas, 1444; Tunisie *Pyralidae* 5 spp. n.

Oberthür, 1745; N. Africa.—**Oberthür, 1754**; Algeria *Chadocera* sp. n.

Olivier Bul. Soc. ent. France **1911** p. 246; *Acherontia atropos* en Tunisie.

Rothschild, 2091; Algeria spp. n., *Eublemma Cucullia, Scodiona* and *Phragmatobia.*

Walsingham, 2687; Algeria *Tineidae* 7 spp. n., genn. n.

Herzog, 1058; Aegypten und Syrien.

Graves pp. 31–36 Ent. Rec. **23**; Syria, continuation from last year.

Courvoisier, 505; Amasia *Lycaena* sp. n.

Le Cerí, 1373; Amasia *Sesia* sp. n.

Rebel, 1986; Syrien, spp. n.

Neuroptera.

Navás, 1695; Maroc *Lertha* sp. n.

Navás, 1686; Algeria *Chrysopa* sp. n.

Navás, 1698; Egypt *Macronemurus* sp. n.

Diptera.

Becker, 125; *Stenopogon* sp. n. Andalusien.

Tuccimei, 2561; Provincia di Roma.

Schnabl, 2196; Korsika, Anthomyidae, spp. n.

Villeneuve, 2637; Deux Asilids nouveaux Corse.

Villeneuve, 2638; Korsika, Tachinidae, spp. n.

Hendel, 1045; *Otites* 4 spp. n.

Newstead, 1717; Malta *Phlebotomus* 3 spp. n.

Bezzi, 181; Tunisie *Scleropogon* n. sp.

Sack, 2124; Algeria, *Pycnomalla* sp. n.

Collin, 462; Egypt, *Agromyza* sp. n.

Villeneuve, 2641; *Atylomia* sp. n. Egypten.

Hemiptera.

Guercio, 984; Penisola Iberica, *Afididi*, spp. n.

Gräffe, 915; Küstenlandes.

Bergevin, & Théry, 140; Liste Algérie.

MacGillavry, 1490; Algerien und Tunesien.

Marchal, 1503; Algérie *Aspidiotus* sp. n.

Newstead, 1718; Egypt *Coccidae* spp. n.

Poppius, 1915; *Raphidosoma* spp. n. Palästina, and Aegypten.

Psocoptera.

Rosen, 2077; Italy *Troctes* sp. n.

Embioptera & Isoptera.

Krausse, 1307; *Embia* von Sardinien.

Silvestri, 2311; Isoptera Tunis spp. n.

Orthoptera.

Wolff, 2770; Sardinia *Platycleis* sp. n.

Shelford, 2281; Tunis *Blattidae* 2 spp. n., gen. n.

Burr, 322; Cairo *Diplatys* sp. n.

(b) Caucasus, West & Centr. Asia.

Insecta, collectively.

Fuchs, 809; Forschungsreise gesammelten Insekten.

Kiseritzky, 1269; Insekten des Gebiets der Don'schen Kosaken (Russ.).

Coleoptera.

Aulmann, 53; Transkaspien, Sammelreise.

Bernhauer, 159; 3 spp. n. Turkestan, *Staphylinus*, *Achenium* and *Bledius*.

Kerremans, 1224; Buprestides 4 spp. n.—**Kerremans, 1226;** Persia *Lampetis* sp. n.

Lesne, 1399; *Lyctus* sp. n.

Luze, 1475; *Lathrimaeum* spp. n. Kaukasus.—**Luze, 1477;** *Medon* sp. n. Kaukasus.

Netolitzky, 1707; Persia *Bembidion* sp. n.

Reineck, 1998; Syria *Macrolenes* sp. n.

Reitter, 2009; *Gynandropthalma* und *Phloconomus* spp. n. asiat. Türkei.—**Reitter, 2010;** *Nanophyes* sp. n. Transkaukasus.—**Reitter, 2012;** *Phytoecia* 3 spp. n. Transkaspien.—**Reitter, 2014;** *Rhynchaenus* spp. n.

Roubal, 2098; *Olophrum* sp. n. Kaukasus.

Schmidt, 2184; Centr. Asia *Heptaulacus* sp. n.

Spaeth, 2359; Arabien gen. n. *Cassididae*.

Suvorov, 2484; Russisch Centralasien and Mongolia *Compsodorcadion* spp. n.—**Suvorov, 2486;** Mongolei *Stephanocleonus* spp. nn.

Hymenoptera.

Buysson, 336; Asie centrale.

Meade-Waldo, 1543; Persia *Polybia* 2 spp. n.

Lepidoptera.

Bastelberger, 118; Tibet *Urapteryx* sp. n.

Čugunov, 536; Macrolepidopteren der Baraba-Steppe (Russ.).

Le Cerf, 1371; *Scsia* sp. n.

Stichel, 2381; n. spp. & subspp., *Colias*, *Thestor*, *Cerura*, *Antitype*, *Dieida* g. n.

Neuroptera.

Navás, 1697; Araxestal *Mantispa* sp. n.

Hemiptera.

Kiritšenko, 1263; Syr-Darja-Gebiet, *Haploprocta* sp. n.—**Kiritšenko, 1264;** Pamir Tibet, Mongolia, *Acanthia* spp. n.

Melichar, 1558; *Eupteryx* sp. n. Kleinasien.

Montandon, 1626; Turkestan *Aphelocherius* sp. n.

Isoptera.

Vasiljev, 2612; Kreis Merw und Syr-darja-Gebiet, *Hodotermes* spp. n.

Odonata (or *Paraneuroptera*).

Bartenef, 108; spp. n.—**Bartenev, 109;** *Calopteryx* 2 spp. n. (Russ.).—**Bartenev, 110;** *Odonata* Transkaukasiens (Russ.).—**Puschnig 1954;** Südostrussland.

Orthoptera.

Konnikov, 1137; Semiretshje-Gebiet *Stenobothrus*, *Stauroderus*, *Bryodema*, spp. n.

Pylinov, 1955; Semiretshje-Gebiet, Mantodea, Phasmatodea, Locustodea, Gryllodea; *Olynthoscelis* sp. n. (Russ.).

Uvarov, 2599; Orthopteren der Kirgisensteppen, *Gryllodes* sp. n.

Africa.

Insecta, collectively.

Kellogg & Paine, 1218; *Anoplura* and *Mallophaga* spp. n.

Longstaff, 1437; Sudan excursion.

Simpson, 2316; West Africa.

Coleoptera.

Arrow, 44; gen. n. *Orphninae.*—**Arrow, 45**; White Nile *Dynamopus* sp. n.—**Arrow, 46**; *Dynastinae* 4 spp. n.

Aulmann, 55; 2 spp. n., *Schizonycha* and *Camenta.*

Aurivillius, 58; Africa trop. *Cerambycidae* 2 genn. n. 23 spp. n.

Bickhardt, 183; Deutsch-Ostafrika Histeriden 10 spp. n.—**Bickhardt, 185**; Histeriden 2 spp. n.—**Bickhardt, 186**; Neue Histeriden.

Boileau, 200; Trop. Africa *Nigidius* sp. n.

Distant, 593; S. African *Cetoniidae.*

Dupuis, 632; *Omophron* 2 spp. n.

Eichelbaum, 667; Käferlarven und Puppen.

Felsche, 726; *Copridae* 2 spp. n.

Gestro, 849; Paussidae della Colonia eritrea.

Gillet, 862; *Copridae* 6 spp. n. 2 genn. n.

Grouvelle, 964; *Trachypholis* sp. n.—**Grouvelle, 967**; *Helminthidae* Afrique orientale et centrale.—**Grouvelle, 968**; 2 spp. n. *Meligethes, Cryptarcha.*—**Grouvelle, 969**; *Diphyllus* sp. n.—**Grouvelle, 971**; *Pycnomerus* sp. n.

Hintz, 1074; *Cerambycidae* spp. n., genn. n.

Horn, 1101; *Cicindela* sp. n.

Jordan, 1183; St. Thomé *Anthribidae* 3 spp. n.—**Jordan, 1184**; *Litocerus, Acorynus, Phlocotragus* 6 spp. n.

Kerremans, 1225; 15 spp. n. *Buprestidae.*—**Kerremans, 1226**; *Psiloptera* and *Oedisterna*, 23 spp. n.

Kolbe, 1287; 3 spp. n.

Lesne, 1414; *Bostrychidae.*

Lewis, 1420; *Histeridae* 6 spp. n.

Marshall [in] King, 1258; *Baris* sp. n.—**Marshall, 1516**; Sudan *Baris* sp. n.

Mocsáry, 1617; *Chrysididae*, spp. n.

Möllenkamp, 1620; *Metopodontus* sp. n.

Moser, 1651; *Cetoniidae* 6 spp. n., gen. n.—**Moser, 1652**; *Cremastochilides* 10 spp. n., gen. n.—**Moser, 1654**; *Cetoniidae* spp. n.—**Moser, 1656**; *Cetoniidae* spp. n.

Oberthür, René, 1756; Soudan français, *Cerambycidae* gen. n.

Ohaus, 1759; *Popillia* and *Anomala* spp. n.

Orbigny, 1778; Abyssinie *Onthophagus* 2 spp. n.—**Orbigny, 1779**; Niger-Tchad 3 spp. n.

Pic, 1844 & 1845; Chari-Tchad *Hylophilus* nouveaux.—**Pic, 1846**; *Scraptia* nouveaux.—**Pic, 1860**; Malacodermes et Hétéromères.—**Pic, 1843**; 3 spp. n., *Cantharis Hylophilus* and *Pseudocistela.*—**Pic, 1864**; 3 spp. n., *Lytta* and *Notoxus.*—**Pic, 1871**; Mégalopides nouveaux.—**Pic, 1877**; *Melyridae*, sp. n.

Reitter, 2003; Erythraea *Xylographus* sp. n.

Schmidt, 2181; *Aphodius* nouveaux.—**Schmidt, 2182**; *Rhyparus* sp. n.—**Schmidt, 2184**; *Aphodiini* spp. n.

Schubert, 2226; *Staphylinidae* spp. n.

Spaeth, 2359; *Cassididae* spp. n.

Stefani-Perez, 2372; *Bostrychus* sp. n.

Strohmeyer, 2460; neue Platypodidengattung.—**Strohmeyer, 2461**; Abessynien *Scolytidae* 2 spp. n.—**Strohmeyer, 2464**; Platypodiden spp. n.

Théry, 2520; *Buprestidae* spp. n.—**Théry, 2521**; Buprestides Nil Bleu.

Vuillet, 2663; *Platysmatini* gen. n.—**Vuillet, 2662**; *Rhabdotis* sp. n.—**Vuillet, 2664**; *Pachnoda* sp. n.—**Vuillet, 2671**; Trichopterygidae gen. n.—**Vuillet, 2675**; nouveau Carabide du Soudan.

Wagner, 2680; *Apion* spp. n.

Wasmann, 2699; *Staphylinidae* genn. n.

Weise, 2712; *Cryptonychus* sp. n.—Weise, 2713; Chrysomelidae spp. n.

Wichmann, 2744; neuer abessynischer *Cladoctonus*.

Strepsiptera.

Pierce, 1894 gen. n.

Hymenoptera.

Bischoff, 188; Fossoria, Chrysididae, Stephanidae, spp. n.

Brauns, 253; *Gorytes* 2 spp. n.—**Brauns, 254**; *Nysson* Südafrikas.—**Brauns, 255**; südafrikanische *Nitela*, 4 spp. n.

Cameron, 353; many spp. n., *Arge* and *Parasitica*.

Cockerell, 456; *Apidae* spp. n.

Crawford, 514; *Proctotrypidae* and *Chalcididae* spp. n.

Enslin, 696; Tenthrediniden spp. n. genn. n.

Forel, 758; Fourmis nouvelles.—**Forel, 761**; Congo *Cataulacus* sp. n.—**Forel, 763**; Ameisen spp. n.—**Forel, 766**; *Formicidae* spp. n.

Friese, 781; *Prosopis* spp. n.—**Friese, 788**; *Xylocopa* sp. n.—**Friese, 790**; Bienen spp. n.—**Friese, 791**; Neue Bienen.

Girault, 886; *Trichogrammatidae* gen. n.

Kieffer, 1234; *Proctotrypidae* 2 spp. n.—**Kieffer, 1242**; *Gasteruption, Neostephanus*, spp. n.—**Kieffer, 1246**; *Foenatopus* sp. n.

Krieger, 1312; Süd-Kamerun und Spanisch-Guinea, *Gabunia* spp. n.

Meade-Waldo, 1543; *Diploptera* 3 spp. n.—**Meade-Waldo, 1544**; *Diploptera* 9 spp. n.

Santschi, 2148; Nouvelles fourmis.—**Santschi, 2152**; *Platythyrea, Prenolepis* and *Plagiolepis* spp. n.

Stitz, 2384; *Formicidae* spp. n.

Strand, 2403; Kamerun spp. n., gen. n.—**Strand, 2415**; *Ceratina* sp. n. *Xylocopa* sp. n.—**Strand, 2416**; *Nomia* und *Omachthes* spp. n.—**Strand, 2422**; *Nomia, Systropha* und *Tetralonia* spp. n.—**Strand, 2423**; *Apidae* spp. n.—**Strand, 2424**; *Megachile* spp. n.—**Strand, 2444**; *Apidae* spp. n.—**Strand, 2450**; Kamerun, *Dorylus* sp. n.—**Strand, 2452**; *Nomia* spp. n.—**Strand, 2453**; *Apidae* spp. n.

Szépligeti, 2498; *Braconidae* n. spp.—**Turner, 2582**; *Scoliidae* 4 spp. n.—**Turner, 2583**; Süd-Kamerun und Spanisch-Guinea. *Methoca, Tiphia* u. *Scolia* spp. n.—**Turner, 2580**; Boma *Elis* sp. n.

Viereck, 2634; *Ichneumon* & *Bracon* spp. n.

Wasmann, 2699; *Dorylus* sp. n.

Lepidoptera.

Aurivillius, 60; Afr. Trop. and S., 11 spp. n., *Lasiocampidae* and *Striphnopterygidae*.—**Aurivillius, 62**; *Satyridae*.

Bethune-Baker, 168; Trop. Africa 129 spp. n., *Bombyces, Noctuidae, Geometridae*, genn. n.—**Bethune-Baker, 169**; *Castalius* sp. n., *Caprona* sp. n., *Noctuidae* 89 spp. n. and genn. n., *Thyrididae* 4 spp. n.

Closs, 430; *Polyptychus* sp. n.

Druce, 619; W. Africa, 2 spp. n., *Agathia* and *Agatha*.—**Druce, 620**; 3 spp. n., *Virbia* and *Acontia*.—**Druce, 621**; W. Africa: *Lophoptera* sp. n.

Eltringham, 670; *Acraea* 4 spp. n.

Fletcher, 748; S. Africa *Oxyptilus* 2 spp. n.

Grünberg, 975; Westafrikanische n. spp., *Gnophodes, Acraea, Neptis, Pseudargynnis, Euryphene, Diestogyna, Pentila, Pseuderesia, Liptena, Megalopalpus, Cupido, Mylothris*.—**Grünberg, 978**; *Metarbelidae* Kamerun spp. n.—**Grünberg, 980**; Deutsch-Südwest-Afrika *Maenas* sp. n., *Paramaenas* g. n.

Oberthur, 1753; Hétérocères nouvoaux.

Hampson, 1000; 39 spp. n.

Joannis, 1165; *Leucophanera* sp. n.

Jordan, 1186; Congo *Polyptychus* sp. n.

Le Cerf, 1368; Saturnides 2 spp. n., gen. n.

Meyrick, 1591; many spp. n., 5 genn. n.—**Meyrick, 1592**; many spp. n., 4 genn. n., *Microlepidoptera*.

Prout, 1949; *Corium* sp. n.—**Prout, 1951**; Congo *Antharmostes* sp. n.—**Prout, 1952**; *Geometridae* 5 spp. n.

Rebel, 1981; Tanganika-See *Rhopalocera.*

Riel, 2035; Saturnides et Pinarides nouveaux ou peu connus du Sénégal.—Riel, 2036; *Taragama* 2 spp. n.

Rothschild, 2095; E. Africa *Aegeria* sp. n.

Schouteden, 2203; Congo Rhopalocera list.—Schouteden, 2204; Uellé *Rhopalocera* list.

Strand, 2393; Danaidae Satyridae und Lycaenidae, Usambara spp. n.—Strand, 2399; Deutsch-Ostafrika, n. spp., *Acraea, Asterope, Aterica, Charaxes, Hypolycaena, Pieris, Papilio, Jana, Gonimbrasia, Bunaea, Gynanisa, Ludia, Xanthospilopteryx, Chalia, Talaeporia, Hesperia.*—Strand, 2404; *Cupido* and *Bombyces*, spp. n.—Strand, 2406; Neue Gattungen und Arten Heterocera.—Strand, 2408; Deutsch-Ostafrika *Polyptychus* sp. n.—Strand, 2409; *Ludia* spp. n.—Strand, 2417; *Ozarba* sp. n. Daressalam.—Strand, 2425; Abyssinien *Rhopalocera* spp. n.—Strand, 2426; g. n. Hesperiidarum.—Strand, 2428; Kamerun, *Pachypasa* sp. n.—Strand, 2431; *Eurythene* sp. n.—Strand, 2436; *Terina* 3 spp. n.—Strand, 2437; 2 spp. n. *Phasicnecus* und *Thaumatopoea.*—Strand, 2438; *Monda* sp. n.—Strand, 2442; *Polygrammodes* sp. n.—Strand, 2443; Deutsch-Ost-Afrika *Tagoropsis* sp. n.—Strand, 2445; *Phiala* sp. n.—Strand, 2446; *Diatraea* sp. n.—Strand, 2449; n. spp., *Cupido, Monda, Parnia, Odontopacha, Leptaroa, Euproctis, Geodena, Athetis.*—Strand, 2451; *Graphidura* spp. n.

Warren, 2692; *Geometridae* and *Pyralidae*, 3 genn. n., spp. n.

Wichgraf, 2742; *Xanthospilopteryx* sp. n.

Trichoptera.

Ulmer, 2592; *Dipseudopsis* sp. n.

Neuroptera.

Banks, 87; *Myrmeleonidae* spp. n.

Klapálek, 1271; Zwei Myrmeleoniden, Abyssinien.

Navás, 1684; *Nemopistha* sp. n.—Navás, 1686; *Chrysopides* 3 spp. n.—Navás, 1688; *Ascalaphidae* spp. n.—Navás, 1695; spp. n. *Nemopteridae Osmylidae, Myrmeleonidae.*—Navás, 1698; C. G. H., *Osmylus* sp. n.

Peringuey, 1827; *Palpares* and *Nemoptera* 4 spp. n.

Diptera.

Austen, 66; Congo *Pangoniinae* spp. n.—Austen, 67; *Tabanus* sp. n.—Austen, 68; *Glossina* sp. n.—Austen, 69; *Chrysops* 3 spp. n.—Austen, 70; *Hippoboscidae* 2 spp. n.—Austen, 71; *Tabanus* 2 spp. n.—Austen, 73; *Glossina* 2 spp. n.

Carter, 370; Uganda *Culiciomyia* sp. n.

Edwards, 658; Ashanti *Eretmapodites* sp. n.—Edwards, 659; *Anopheles* 2 spp. n.—Edwards, 660; *Culicinae*, revision.—Edwards, 661; W. Africa *Ceratocheilus* sp. n.

Enderlein, 680; *Oscinosomini* gen. n.—Enderlein, 687; Trypetiden 8 spp. n., genn. n.

Froggatt, 799; Khartoum *Dacus* sp. n.

Hendel, 1043; Ost-Afrika, *Sepedon* spp. n.

Neave, 1700; Rhodesia haematopotic *Diptera.*

Newstead & Carter, 1722; *Culicidae* 4 spp. n.

Roubaud, 2100; Dahomey *Stomoxys* spp. n.—Roubaud, 2101; *Stomoxys* sp. n.

Pittaluga, 1900; *Occacta* n. sp.

Scheben, 2170; *Dermatocestrus* n. sp.

Speiser, 2362; 11 spp. n., gen. n.

Surcouf, 2476; Afrique orientale anglaise *Pangonia.*—Surcouf, 2479; *Tabanus* sp. n.—Surcouf, 2480; *Tabanidae* 2 spp. n.—Surcouf et Arias, 2481; Piqueurs Dahomey.—Surcouf et Arias-Encobet, 2482; Piqueurs Niger Tchad.

Theobald, 2510; Uganda *Corethra* sp. n.—Theobald, 2515; Sudan *Culicidae* 2 spp. n.—Theobald, 2517; Uganda *Culicidae* spp. n.—Theobald, 2518; *Pyretophorus* and *Culex* 6 spp. n.

Wellman, 2718; Mosquitoes of Bihé and Bailundo.

Aphaniptera.

Rothschild, 2085; gen. n.

Hemiptera.

Bergroth, 142; *Capyella* sp. n.

Distant, 589; 11 spp. n. *Euahanes, Oannes, Lygaeus, Sanazarius, Neovarus, Holotrichius, Pirates.*

Horváth, 1107; *Phyllontocheila* spp. n.—**Horvath, 1108**; Uganda *Valleriola* sp. n.—**Horváth, 1109**; Abyssinia *Cicadidae* gen. n.

Howatt, 1122; Anthocoride nouveau du Dahomey.

Lindinger, 1427; *Coccidae* spp. n.

Melichar, 1557; Homoptera numerous spp. n.

Montandon, 1627; 2 spp. n., *Leccotrephes* and *Ranatra.*

Neiva, 1705; *Triatoma* spp. n.

Newstead, 1715; *Coccidae* and *Aleurodidae*, spp. n.—**Newstead, 1718**; *Coccidae* spp. n.—**Newstead, 1719**; gen. n. *Psyllidae.*

Poppius, 1913; *Helopeltis* 3 spp. n. —**Poppius, 1914**; *Pamerides* sp. n. Kapland.—**Poppius, 1920**; *Eurystylus* spp. n.

Reuter & Poppius, 2028; *Bryocorina* 6 spp. n., genn. n.

Schmidt, 2188; Homopteren, 10 spp. n., genn. n.—**Schmidt, 2189**; *Paropioxys* 2 spp. n.—**Schmidt, 2190**; Membraciden, spp. n.

Schouteden, 2206; *Cimicidae* and *Coreidae* spp. n.—**Schouteden, 2207**; *Reduviidae* spp. n.

Schumacher, 2240; *Ploiariola* sp. n.

Strand, 2411; *Anecphora* sp. n. Kamerun.—**Strand, 2418**; neue *Anecphora* Kamerun.—**Strand, 2421**; *Malfeytia* sp. n.

Thysanoptera.

Trybom, 2557; Britt. Ostafrika 2 spp. n.—**Trybom, 2558**; Ägypten und Sudan, spp. n.

Psocoptera.

Enderlein, 682; *Archipsocus* n. sp.

Ribaga, 2030; Copeognati sud-africani nuovi.

Mallophaga.

Mjöberg, 1614; Ägypten und Sudan.

Isoptera.

Sjöstedt, 2322; Brit. East Africa *Eutermes* sp. n.—**Sjöstedt, 2323**; Termiten 12 spp. n.—**Sjöstedt, 2324**; Kongo Termiten 8 spp. n.—**Sjöstedt, 2325 & 2326**; spp. n.

Wasmann, 2699; spp. n.

Embioptera.

Krauss, 1303; spp. n.

Ephemeroptera.

Navás, 1683; 2 spp. n.

Odonata or *Paraneuroptera.*

Grünberg, 977; Victoria-Nyanza, 2 spp. n.

Ris, 2044; *Anax* sp. n.—**Ris, 2045**; *Orthetrum* 2 spp. n.— **Ris, 2047**; *Bradinopyga* sp. n.

Orthoptera.

Bolivar, 205; Congo *Acridiidae* 12 spp. n., genn. n.

Burr, 313; Trop. Africa incl. Abyssinia, *Forficulidae* 10 spp. n.—**Burr, 315**; 8 spp. n. *Forficulidae.*

Giglio-Tos, 858; *Mantidae* spp. n.— **Giglio-Tos, 859**; *Tarachodes* 15 spp. n. —**Giglio-Tos, 860**; *Galepsus* 16 spp. n.

Griffini, 938; *Gryllacris* sp. n. Kamerun.—**Griffini, 941**; n. gen. *Gryllacridae.*—**Griffini, 943**; *Gryllacridi* 2 spp. n.—**Griffini, 949**; *Gryllacridi*, catalogo.—**Griffini, 953**; *Neanias* 2 n. spp.

Karny, 1207; *Homorocoryphus* sp. n.

Kuthy, 1336; Africa or. *Phlacoba* n. sp.

La Baume, 1343; n. spp., *Homocoxipha, Madiga, Pardalota.*

Rehn, 1991; *Mantidae* and *Phasmidae* spp. n.

Schulthess-Rechberg, 2228; Transvaal *Phasmidae* gen. n.

Shelford, 2281; *Blattidae* 5 spp. n.— †**Shelford, 2284**; Amber *Blattidae* spp. n.—**Shelford, 2285**; *Blattidae* spp. n.

Zacher, 2783; *Forficulidae* spp. n.

Madagascar and Mascarene Islands.

Coleoptera.

Arrow, 42; *Lonchotus* 5 spp. n.—Arrow, 46; gen. n. near *Phileurus*.

Beguin-Billecocq, 132; *Apion* spp. n.

Felsche, 726; *Epilissus* spp. n.

Jordan, 1184; *Anthribidae* gen. n.

Kerremans, 1226; Mad. (incl. Comoro islds.) *Polybothris* 19 spp. n.

Moser, 1653; *Serica*, Madagascar.—Moser, 1654; *Cetoniden* spp. n.

Pic, 1871; *Colobaspis* sp. n.

Schubert, 2226; *Staphylinidae* spp. n.

Spaeth, 2359; *Cassididae* spp. n.

Strohmeyer, 2464; *Platypus* spp. n.

Théry, 2520; *Buprestidae* spp. n.

Weise, 2712; *Coelaenomenodera* sp. n.

Hymenoptera.

Kieffer, 1238; Seychelles *Cynipidae* 8 spp. n.

Santschi, 2144; *Sima* sp. n.—Santschi, 2150; *Formicidae* spp. n.

Turner, 2584; Seychelles etc. *Fossoria* spp. n.

Lepidoptera.

Dognin, 607; *Axiodes* sp. n.

Fletcher, 749; Seychelles *Heterocera* 13 spp. n., distribution discussed.—Fletcher, 750; Seychelles etc., *Orneodidae* and *Pterophoridae* 4 spp. n.

Le Cerf, 1371; *Aegeriidae* gen. n.

Meyrick, 1590; Aldabra and Seychelles *Tortricina* and *Tineina* 99 spp. n., distribution discussed.

Rothschild, 2093; *Rhodogastria* sp. n.—Rothschild, 2096; *Micronaclia* 3 spp. n.

Strand, 2449; *Parnia* sp. n.

Trichoptera.

Ulmer, 2592; *Dipseudopsis* sp. n.

Neuroptera.

Navás, 1686; Seychelles and Mauritius *Chrysopa* spp. n.

Diptera.

Enderlein, 686; *Chloropidae* 2 spp. n.—Enderlein, 687; *Trypetidae* spp. n.

Kieffer, 1239; Seychelles *Cecidomyiidae* many spp. n.—Kieffer, 1240; Seychelles *Chironomidae* many spp. n.

Hemiptera.

Bergroth, 146; *Pentatomidae* 2 genn. n.

Distant, 581; *Pentatomidae* gen. n.

Horváth, 1107; *Glypsus* sp. n.

Schmidt, 2188; *Cornelia* sp. n.

Orthoptera.

Giglio-Tos, 858; Comoro, gen. n. *Mantidae*.

Griffini, 947; *Gryllacris* 2 spp. n.—Griffini, 948; *Gryllacridae* spp. n.

Asia, Tropical & Eastern,

Including Japan, Biluchistan, Afghanistan.

For West and Centr. Asia *vide* Palaearctic (*b*); for North Asia *vide* Palaearctic (*c*).

Insecta, collectively.

Banks, 91; India *Neuroptera* and *Trichoptera* spp. n.

Matsumura, 1536; Formosa, sugarcane ins., spp. n.

Navás, 1693; China, Formosa, Japan, *Neuroptera* s.l. spp. n., genn. n.

Coleoptera.

Arrow, 47; India etc., *Micranomala* gen. n.—Arrow, 48; Ceylon *Rutelinae* 11 spp. n.—Arrow, 49; India *Anomala* 14 spp. n.

Bernhauer, 157; India *Staphylinidae* spp. n.

Boileau, 200; Burma etc., *Lucanidae* 6 spp. n.—Boileau, 202; India *Metopodontus* sp. n.

Bolkay, 208; Formosa gen. n. *Brenthidae*.

Boppe, 215; Yunnan *Prionidae* gen. n.—**Boppe, 216**; *Rosalia* de Formose.

Csiki, 529; India *Aulacochilus* sp. n., Formosa *Rosalia* sp. n.

Formánek, 768; *Byctiscus* sp. n. Ost-China.

Gillet, 861; Bengal *Copris* sp. n.—**Gillet, 863**; Tonkin *Synapsis* sp. n., India *Onitis* sp. n.

Grouvelle, 962; Yunnan and Formosa *Heterocerus* spp. n.—**Grouvelle, 964**; India etc. *Trachypholis* spp. n.—**Grouvelle, 972**; India *Clavicornia* 5 spp. n.

Hauser, 1015; China *Coptolabrus* sp. n.

Heikertinger, 1031; *Aphthona* sp. n. Buchara.

Heller, 1034; Formosa *Ceracupes* sp. n.

Horn, 1103; Ceylon, India, Sumatra, ancient connection.—**Horn, 1104**; *Cicindela*, Ceylon.

Jordan, 1184; India, Malay Penins., *Anthribidae* 10 spp. n.

Kuntzen, 1327; Assam and Formosa *Lesticus* 2 spp. n.

Lameere, 1351; Annam *Dorysthenes* sp. n.

Lapouge, 1357; ile Quelpart *Coptolabrus* sp. n.

Lesne, 1404; Tonkin *Heterarthron* sp. n.—**Lesne, 1410**; *Dinoderus* 2 spp. n.

Lewis, 1420; India, China, Japan, *Histeridae* 4 spp. n.

Moser, 1651; China and Formosa *Cetoniidae* 3 spp. n.—**Moser, 1652**; Yunnan *Callynomes* sp. n.—**Moser, 1654**; India *Clinteria* sp. n.

Netolitzky, 1709; *Bembidion* sp. n. Ost-Buchara.

Ohaus, 1760; Yunnan *Fruhstorferia* sp. n.

Pic, 1847; *Cantharidae, Lampyridae, Mordellidae*, spp. n.—**Pic, 1860**; *Malacoderm* and *Heteromera*.—**Pic, 1867**; *Hylophilus* de Malacca.—**Pic, 1872**; India and Ceylon *Idgia* 2 spp. n.

Prell, 1942; Cochin China *Clyster* sp. n.

Ritsema, 2050; Formosa *Helota* sp. n.

Sampson, 2132; Perak and Ceylon *Scolytidae* 2 spp. n., gen. n.

Schilder, 2177; Cicindelinenfauna des chinesischen und des japanischen Reiches.

Schmidt, 2183; Andaman islds. *Dialytes* sp. n.

Schönfeldt D. ent. Nationalbibl. Berlin 2 pp. 189-190; Sauter's Formosa-Ausbeute.

Schubert, 2226; India, China, *Staphylinidae* spp. n.

Sicard, 2295; Coccinellides de l'Inde.

Silvestri, 2298; Singapore *Staphylinidae* gen. n.

Stebbing, 2369; India 3 spp. n., *Anthazia, Cryptorhynchus* and *Platypus*.

Théry, 2520; *Buprestidae* spp. n.—**Théry, 2522**; Chota Nagpore *Agelia* sp. n.

Vuillet, 2661; *Autocrates* sp. n.—**Vuillet, 2667**; Japon *Rosalia* sp. n.

Wasmann, 2700; Ceylon *Paussus* sp. n.

Weise, 2713; Siam *Paradibolia* sp. n.

Strepsiptera.

Pierce, 1894; spp. n.

Hymenoptera.

Cameron, 348; Ceylon gen. n. *Hemitelini*.—**Cameron, 352**; Japan 4 spp. n., *Rhynchium* and *Ancistrocerus*.—**Cameron, 358**; *Xanthopimpla* Bengal.

Cockerell, 435; Formosa, India, Ceylon, *Apidae* 10 spp. n.—**Cockerell, 436**; Formosa *Apidae* 9 spp. n.—**Cockerell, 437**; Formosa *Megachile* spp. n., India *Anthophora* sp. n.—**Cockerell, 438**; India and Ceylon *Apidae* 16 spp. n.—**Cockerell, 439**; China *Megachile* sp. n.—**Cockerell, 440**; Formosa *Halictus* 7 spp. n., India *Melissina* sp. n.—**Cockerell, 441**; China *Crocisa* 2 spp. n.—**Cockerell, 450**; Formosa *Bombus* sp. n.—**Cockerell, 452**; Himalayan Tibet *Nomada* sp. n.—**Cockerell, 453**; India and China *Anthophora* 2 spp. n.—**Cockerell, 454**; Formosa *Apidae* 2 spp. n.—**Cockerell, 456**; China *Andrena* sp. n., Singapore

Ceratina sp. n.—**Cockerell, 456a**; India and China *Apidae* spp. n.—**Cockerell, 459**; Japan and China *Apidae* spp. n. —**Cockerell, 459a**; Japan, Tibet, China, Siam, *Apidae* spp. n.

Crawford, 513; Japan *Chrysididae* 2 spp. n.

Emery, 674; India *Pseudolasius* sp. n.

Enslin, 689; Formosa *Tenthredinidae* spp. n.—**Enslin, 697**; *Tenthredinidea* Formosa spp. n., genn. n.

Forel, 758; Fourmis nouvelles ou intéressantes.—**Forel, 762**; Ceylon *Vollenhovia* sp. n.—**Forel, 763**; Japan *Camponotus* sp. n.—**Forel, 764**; Singapore, Ceylon, *Formicidae* spp. n.—**Forel, 765**; Ceylon *Formicidae* gen. n., spp. n.—**Forel, 767**; Burma *Pseudolasius* sp. n.

Friese, 789; China and Formosa *Apidae* spp. n.

Girault, 887; China and Japan *Trichogrammatidae* spp. n.

Howard, 1118; India *Prospaltella* sp. n.

Kieffer, 1234; India and Ceylon *Proctotrypidae* 2 spp. n.—**Kieffer, 1244**; Dryinide, Indes orientales.

Meade-Waldo, 1543; Formosa *Vespa* sp. n.

Mocsáry, 1617; *Chrysididae* spp. n.

Rohwer, 2067; Formosa spp. n.—**Rohwer, 2070**; India *Tachytes* sp. n.

Santschi, 2147; Deux nouvelles fourmis du Tonkin.

Strand, 2396; Ceylon and China *Podagrion* spp. n.—**Strand, 2414**; Formosa gen. n. *Chalcididae*.—**Strand, 2419**; *Chalcididen* gen. n.—**Strand, 2430**; *Anacryptus* and *Antrocephalus* spp. n.

Turner, 2581; Karachi and Quetta *Palarus* 2 spp. n.

Ulbricht, 2589; Japan *Pimpla* sp. n.

Viereck, 2634; Japan 2 spp. n., *Phygadeuon* and *Diacretus*.—**Viereck, 2635**; Japan *Pimpla* sp. n.

Yano, 2778; *Polyrhachis* of Japan. —**Yano, 2779**; Japan *Formicidae* sp. n.

Lepidoptera.

Austaut, 65; *Psilogramma* sp. n. Japan.

Bastelberger, 112; Formosa *Milionia* spp. n.—**Bastelberger, 113**; Geometriden Formosa.—**Bastelberger, 114**; *Geometridae* Formosa.—**Bastelberger, 115**; Andaman islds. *Dysphania* sp. n. —**Bastelberger, 119**; Geometriden Formosa spp. n.

Bell, 133; The common butterflies of the plains of India.

de Rhé-Philipe, 568; Yunnan butterflies.

Druce, 618; India *Parhestina* sp. n. —**Druce, 620**; Assam *Tyana* sp. n.

Grünberg, 973; China *Gastropacha* sp. n.

Hampson, 1000; incl. Tibet, 12 spp. n.—**Hampson, 1001, 1002**; British India *Hadeninae*.

Jordan, 1185; Tonkin *Locpa* sp. n.—**Jordan** (in Seitz), **2255**; *Saturniidae* spp. n.

Martin, 1521; Rundfahrt.

Meyrick, 1586; India *Gelechiidae* and *Xyloryctidae* spp. n.—**Meyrick, 1589**; India 3 spp. n., *Lithocolletis* and *Acrocercops*.

Miyake, 1612; Lithosianae of Japan.

Prout, 1949; Tientsin *Acidalia* sp. n. —**Prout, 1951**; India *Gelasma* sp. n.

Peile J. Bombay Soc. 20 p. 833; List of butterflies, Ganges valley.

Rothschild, 2095; Assam *Sphecia* sp. n., Malay Penins., *Paranthrena* sp. n.—**Rothschild, 2096**; Formosa, Yunnan and Annam, *Amata* 4 spp. n.

Strand, 2433; *Lymantriidae* 3 spp. n.

Swinhoe, 2492; India *Lycaenidae* 9 spp. n.

Tytler, 2585; Naga hills *Rhopalocera* annoted list, *Apatura* sp. n.

Warren, 2693; *Noctuidae* spp. n.—**Warren, 2694**; India and Burma *Noctuidae* 15 spp. n.

Wileman, 2753; Formosa *Rhopalocera* spp. n.—**Wileman, 2754**; Formosa 47 spp. n.—**Wileman, 2756**; Formosa *Geometridae* 27 spp. n.—**Wileman, 2757**; Japan *Heterocera* many spp. n.

Yano; *Euchloe, Aporia, Oeneis*, in Japan (Japanese); Dobuts. Z. Tokyo 23 pp. 53–56.

Trichoptera.

Ulmer, 2591; Formosa spp. n.

Neuroptera.

Gravely, 928; Myrmeleonid and Ascalaphid larvae.

Miyake, 1613; Japan *Panorpa* sp. n.

Navás, 1698; Tonkin and Malabar 2 spp. n., *Micromus* and *Chrysopa*.—**Navás, 1699**; India Némoptéride nouveau.

Okamoto, 1766; Zur Mantispiden Japans.

Diptera.

Becker, 123; *Chloropidae* many spp. n.

Brues, 286; Formosa *Phoridae* n. spp.

Brunetti, 292; Indian region, *Nemocera* many spp. n.—**Brunetti, 294**; Oriental Tipulidae spp. n.—**Brunetti & James, 295**; Yunnan *Bibionidae*, *Mycetophilidae* and *Anophelinae*.

Christophers, 425; India *Culicidae* gen. n.—**Christophers, 427**; *Neocellia* n. sp.

Edwards, 657; Ceylon *Limnobiinae* 10 spp. n.

Enderlein, 687; Formosa *Trypetidae* spp. n.

Felt, 733; *Endaphis* sp. n. Ceylon.

Hendel, 1043; Formosa *Sepedon* sp. n.

Kieffer, 1251; Yunnan *Chironomides*.—**Kieffer, 1252**; India, etc., *Chironomidae* spp. n.—**Kieffer, 1253**; Chironomides Himalaya et Assam.

Pérez, 1823; *Vespa* spp. n.

Perry, Paludism 1911 p. 62; *M. listoni* Punjab.

Ricardo, 2032; *Tabanidae* spp. n.

Speiser, 2362; Formosa 2 spp. n., *Zelmira* and *Milesia*.

Summers, 2471; Malay States *Stomoxys* sp. n.—**Summers, 2472**; Siam *Simulium* sp. n.

Aphaniptera.

Jordan & Rothschild, 1189; China 13 spp. n., gen. n.

Rothschild, 2088; India and Burma 2 spp. n., gen. n.—**Rothschild, 2089**; India and China.

Hemiptera.

Distant, 581; China and Korea *Pentatomidae* genn. n., spp. n.—**Distant, 583**; China *Rihana* sp. n.—**Distant, 586**; India and Ceylon *Fulgoridae* 24 spp. n., genn. n.—**Distant, 590**; India 16 spp. n., genn. n.

Green, 933; Ceylon spp. n.

Horváth, 1107; Formosa 2 spp. n., *Sirthenea* and *Saldoida*.

Horváth, 1107; Formosa *Canthecononidea* sp. n., China *Pinthaeus* sp. n.

Kuwana, 1339; Japan *Aleyrodidae* spp. n.

Lindinger, 1429; *Coccidae* spp. n., India.

Marlatt, 1514; Japan *Aspidiotus* sp. n.

Montandon, 1626; Tonkin *Gestroiella* sp. n.—**Montandon, 1627**; Ceylon *Cercotmetus* sp. n.

Poppius, 1918; Miriden von Ceylon.—**Poppius, 1920**; *Eurystylus* India spp. n.

Sasaki, 2153; Japan *Astegopteryx* sp. n.

Schmidt, 2188; 2 spp. n., Bangkok *Dichoptera*, Sikkim *Kolla*.—**Schmidt, 2189**; Burma *Fulgoridae* spp. n.

Thysanoptera.

Okamoto, 1765; *Euthrips* sp. n. Japan.

Isoptera.

Holmgren, 1094; Tonkin gen. n.

Paraneuroptera.

Bartenev, 108; Ordos *Ischnura* n. sp., Hakodate *Agrion* sp. n.

Orthoptera.

Borelli, 224; India *Forficulidae* 2 spp. n., *Homoeolabis* and *Euborellia*.

Burr, 313; Annam *Platylabia* sp. n.—**Burr, 322**; Siam *Diplatys* sp. n.—**Burr, 325**; Ceylon *Platylabia* sp. n.

Griffini, 942; Tonkin *Gryllacris* sp. n.—Griffini, 947; Tonkin *Anabropsis* sp. n.

Kirby, 1260; Malay penins. *Temnophyllus* sp. n.

Shelford, 2281; India *Stylopyga* sp. n.

Shiraki, 2290; Japan and Formosa *Phasmidae* and *Mantidae* spp. n.

Aptera.

Ritter, 2052; Ceylon und Bombay, many spp. n.

Silvestri, 2302; *Machilidae* spp. n. —Silvestri, 2303; Ceylon *Lepidospora* sp. n.—Silvestri, 2312; Ceylon *Assmuthia* sp. n.

Asiatic Archipelago.

Java to New Guinea, incl. Philippines.

Insecta, collectively.

Silvestri, 2299; Java *Atelura* sp. n., *Staphylinidae* gen. n.

Coleoptera.

Achard, 3; Sumatra *Chelidonium* sp. n.

Arrow, 46; Borneo and New Guinea *Dynastinae* 4 spp. n., gen. n.

Aulmann, 54; N. Guinea and N. Pommern, *Pimelopus* spp. n.

Aurivillius, 58; *Cerambycidae* Borneo 10 genn. n., 31 spp. n., Neu Guinea 7 spp. n., Java 1 sp. n., Philippinen 1 sp. n., Sumbava 1 sp. n.

Bernhauer, 157; Staphyliniden spp. n.

Boileau, 200; Sumatra *Gnaphaloryx* sp. n.

Bolkay, 208; Neu-Guinea gen. n. *Brenthidae.*

Borchmann, 218; Sumatra *Nemostira* spp. n.

Csiki, 529; *Aulacocheilus* 2 spp. n.

Dupuis, 631; Sumbawa *Apotomus* sp. n.

Gestro, 848; *Hispidae* di Borneo.

Grouvelle, 963; *Antherophagus* n. sp. Java.—Grouvelle, 964; *Trachypholis* et *Microvonus* spp. n.

Heller, 1037; Java *Alcides* sp. n.—Heller, 1036; *Morokia* sp. n. Neuguinea.

Heyden, 1065; Aru- und Kei-Inseln, spp. n., *Discodon*, *Anthicomorphus*, *Mordellistena*, *Baris.*

Jordan, 1184; *Anthribidae* 21 spp. n.

Kerremans, 1223; *Cyphogastra* spp. n.

Lesne, 1404; Borneo *Heterarthron* sp. n.

Möllenkamp, 1621; Borneo and N. Guinea, *Aegus* 2 spp. n.

Moser, 1653; *Serica* von Borneo.—Moser, 1654; Borneo *Cetoniidae* spp. n. —Moser, 1655; Philippines 2 spp. n., *Holotrichia* and *Protaetia.*

Moulton, 1659; Borneo *Buprestidae* list.

Ohaus, 1760; Ruteliden spp. n.

Olivier, 1770; Nouvelle-Guinée *Luciola* 2 spp. n.—Olivier, 1772; N. Guinea *Atyphella* 3 spp. n.—Olivier, 1777; *Lampyridae* spp. n.

Pic, 1854; *Zonitis* de la Nouvelle-Guinée et régions avoisinantes.—Pic, 1862; *Idgia* de Java et de Sumatra.—Pic, 1864; Sumatra *Tomoderus* sp. n. —Pic, 1869; Lombok *Cantharis* sp. n.

Prell, 1942; Borneo *Clyster* sp. n.

Ritsema, 2048; *Sumatra* 2 spp. n., *Coelosterna* and *Apriona.*

Roepke, 2057; Java *Apoderus* sp. n.

Schmidt, 2182; Java *Rhyparus* sp. n.

Schubert, 2226; *Staphylinidae* spp. n.

Strohmeyer, 2465; Philippinen, *Scolytidae* spp. n.

Théry, 2520; *Buprestidae* spp. n.—Théry, 2522; Moluccas *Iridotaenia* sp. n.

Weise, 2712; Philippines *Hispinae* 3 spp. n.—Weise, 2713; *Hispidae* 4 spp. n.

Hymenoptera.

Cameron, 350; Borneo *Evaniidae* 5 spp. n.—Cameron, 351; Borneo *Ichneumonidae* 3 spp. n.—Cameron, 356; Chalcididae, Borneo, spp. n.,

genn. n.—**Cameron, 359**; Hymenoptera (except Anthophila and Formicidae) New Guinea many spp. n.

Crawford, 515; Sumatra *Chalcididae* and *Proctotrypidae* spp. n.

Emery, 674; Java and Amboina *Pseudolasius* 3 spp. n.—**Emery, 678 & 679**; Formicidae Neu-Guinea spp. n.

Enslin, 695; Java *Tenthredinidae* gen. n.

Forel, 763; *Formicidae* spp. n.—**Forel, 763 ?**; Ameisen, Java.—**Forel, 764**; Borneo, *Formicidae* spp. n.—**Forel, 758**; Fourmis nouvelles.

Friese, 783; *Megachile* spp. n.—**Friese, 784**; Neuguinea spp. n. *Anthophora* and *Megachile*.—**Friese, 793**; *Apidae* Neu Guinea spp. n.—**Friese, du Buysson & Strand, 794**; Aru- und Kei-Inseln, *Aculeata* spp. n.

Kieffer, 1242; Java *Parevania* sp. n.

Mocsáry, 1617; *Chrysididae* spp. n.

Stitz, 2383; Neu-Guinea *Formicidae* spp. n.

Strand, 2441; Papuanischer Schlupfwespen.

Turner, 2580; Palau islds. *Scolia* sp. n.

Viereck, 2635; Philippines *Orgilus* sp. n.—**Viereck, 2636**; Sumatra *Megarhogas* sp. n.

Lepidoptera.

Bastelberger, 115; Sumatra, *Lobochlora* sp. n.—**Bastelberger, 116**; Borneo *Arycanda* sp. n.—**Bastelberger, 118**; *Craspedosis* 2 spp. n.

Bethune-Baker, 170; New Guinea 6 spp. n., *Nacaduba*, *Heterusia*, *Gyrtona*, *Hypena*, *Abraxas*, *Daulia*.

Chapman, 399; Borneo *Lycaenopsis* 2 spp. n.

Druce, 620; Borneo *Carea* 2 spp. n.

Fletcher, 748; Aru *Oxyptilus* sp. n.

Fruhstorfer, 803; Neue Hesperiden Indo-Malayischen.—**Fruhstorfer, 804**; N. Guinea *Huphina* sp. n.—**Fruhstorfer, 806**; *Satyridae* spp. n.

Grünberg, 979; *Apsarasa* 3 spp. n.

Hampson, 1000; 15 spp. n.

Kenrick, 1222; New Guinea 5 spp. n., *Ornithoptera*, *Delias* and *Libythea*.

Lück & Gehlen, 1462; N. Guinea *Delias* sp. n.

Moulton, 1661; Borneo *Lycaenidae* spp. n.

Prout, 1949; New Guinea *Sarcinodes* sp. n.—**Prout, 1950**; New Guinea *Geometrinae* 5 spp. n.—**Prout, 1951**; New Guinea 3 spp. n. *Thalassodes* and *Anisozyga*.

Rothschild, 2092; New Guinea 2 spp. n., *Deudoryx* and *Panacra*.—**Rothschild, 2094**; Buru and N. Guinea *Euchromia* 2 spp. n.—**Rothschild, 2095**; New Guinea 2 spp. n., *Melittia* and *Ichneumenoptera*.—**Rothschild, 2096**; New Guinea *Amata* 2 spp. n.

Strand, 2401; Deutsch-Neuguinea n. spp. etc. von *Tellervo*, *Taenaris*, *Cupido*, *Ogyris*, *Bordeta*, *Ophthalmis*.—**Strand, 2420**; Minahassa *Milionia* sp. n.

Warren, 2694; New Guinea and Borneo, *Noctuidae* 6 spp. n.

Neuroptera.

Navás, 1691; Sumatra *Hybris* sp. n.

Diptera.

Banks, 92; *Ascodipteron* sp. n.

Becker, 123; *Chloropidae*, Monographie, gen. et spp. n.

Brunetti, 294; *Tipulidae* spp. n.

Enderlein, 687; *Trypetidae* 13 spp. n., genn. n.

Hendel, 1043; *Sepedon* spp. n.

Ludlow, 1461; Philippine *Culicidae* spp. n.

Meyere, 1578; *Tipulidae* spp. n.—**Meyere, 1579**; Südostasiatische, grösstenteils javanische.

Ricardo, 2031; *Tabanus* spp. n.

Theobald, 2516; Culicidae 4 spp. n.

Villeneuve, 2640; *Ceromasia* sp. n. Neu-Guinea.

Hemiptera.

Distant, 581; Philippines *Sastragala* sp. n., New Guinea *Utana* sp. n.

Distant, 583; Sumatra *Cryptotympana* sp. n.—**Distant, 585**; Aru islds. 2 spp. n., *Mictis* and *Sawda*.

Horváth, 1107; *Platynopus* spp. n.

Lallemand, 1347; New Guinea *Cosmoscarta* 2 spp. n.

Lindinger, 1429; *Coccidae* 3 spp. n.

Montandon, 1625; Nouvelle-Guinée gen. n. *Hydrocoris*.—**Montandon, 1626**; *Cercotmetus* 2 spp. n.—**Montandon, 1627**; N. Guinea *Cerotmetus* sp. n.

Moulton, 1660; Sarawak, *Cicadidae* 2 spp. n.

Muir, 1672; *Perkinsiella* spp. n.

Poppius, 1916; *Mecistoscelis* sp. n. Neu-Guinea.—**Poppius, 1920**; *Eurystylus* spp. n.

Schmidt, 2186; Sumatra and Borneo *Coreidae* 2 genn. n.—**Schmidt, 2187**; Neue von Borneo.—**Schmidt, 2188**; 6 spp. n.—**Schmidt, 2189**; N. Guinea *Myrilla* sp. n.—**Schmidt, 2190**; *Otoris* spp. n.

Thysanoptera.

Karny, 1206; Revision *Heliothrips* N. Guinea 2 spp. n.

Embioptera.

Krauss, 1303; Sumatra sp. n.

Isoptera.

Holmgren, 1092; Neu-Guinea spp. n.

Odonata or *Paraneuroptera.*

Laidlaw, 1346; Borneo *Orchithemis* sp. n.

Ris, 2043; Borneo 3 spp. n.—**Ris, 2047**; *Neurothemis* 2 spp. n.

Orthoptera.

Bolivar, 206; Obi *Mecopodinae* 2 spp. n.

Burr, 320; Dermapteren, Aru- und Kei-Inseln.—**Burr, 321**; *Dermaptera* Java.—**Burr, 322**; *Diplatys* 3 spp. n.—**Burr, 325**; *Forficulidae* 4 spp. n.

Griffini, 937; Nova Guinea *Stenopelmatidi* spp. n.—**Griffini, 946**; Nuova Guinea *Gryllacris* sp. n., gen. n.—**Griffini, 950**; Borneo *Gryllacris* sp. n.—**Griffini, 952**; *Gryllacris* Nuova Guinea.

Karny, 1207; *Agraecia*, *Habetia*, *Rhydaspis*, *Salomona* und *Xiphidion* spp. n. Neu Guinea.

Kuthy, 1336; Nova Guinea 2 spp. n., *Eupromachus* and *Biroella*.

(x–9186 *j*)

Shelford, 2281; Java and Manila 2 spp. n., *Stylopyga* and *Blatta*.—**Shelford, 2283**; Aru and Kei Islands, *Eroblatta* sp. n.

Werner, 2720; Aru- und Kei-Inseln, *Hierodula* spp. n.

Zacher, 2783; *Forficulidae* spp. n.

Aptera.

Silvestri, 2302; *Machilidae* spp. n.

Australia and Tasmania.

Coleoptera.

Aurivillius, 58; N. Südwales Cerambycidae sp. n.

Blackburn, 190; *Heteronyx* spp. n.—**Blackburn, 190**; *Melolonthidae* and *Elateridae*, spp. n.

Carter, 371; *Nyctozoilides* revision, spp. n., gen. n.—**Carter, 372**; *Tenebrionidae* spp. n.—**Carter, 373**; *Tenebrionidae* 3 spp. n.

Dupuis, 632; *Catadromus* sp. n.

Gillet, 861; Melville Isld. *Coptodactyla* sp. n.

Grouvelle, 966; *Colydiidae* sp. n. *Cucujidae* 7 spp. n. *Erotylidae* sp. n.

Goudie, 906; North-west Victoria *Staphylinidae*.

Lea, 1359; *Curculionidae* spp. n.—**Lea, 1360**; *Curculionidae* spp. n.—**Lea, 1361**; *Curculionidae* many spp.—**Lea, 1362**; Australia and Tasmania *Staphylinidae* spp. n., *Cucujidae*, *Lucanidae*, *Cleridae*, *Scolytidae*, spp. n.—**Lea, 1365**; Australia and Tasmania *Pselaphidae* spp. n.—**Lea, 1366**; Tasmania *Lissotes* spp. n.—**Lea, 1363a**; symbiotic *Col.* many spp. n.

Prell, 1943; Dynastinen *Liteupatorus* gen. n.

Sloane, 2336; *Carabidae* Dorrigo.

Théry, 2520; *Buprestidae* spp. n.

Hymenoptera.

Cameron, 354; Hym. parasit. spp. n.

Cockerell, 439; *Eurygloss*a 2 spp. n.—**Cockerell, 451**; *Heterapis* gen. n.—**Cockerell, 456**; *Apidae* spp. n.

Crawford, 515; *Proctotrypidae* and *Chalcididae*, spp. n.

Forel, 757; *Meranoplus* sp. n.—**Forel, 762**; *Turneria* sp. n.

Friese, 784; 2 spp. n. *Anthophora* and *Megachile*.

Girault, 868; *Anagrus* sp. n.—**Girault, 881**; *Ufens* sp. n.—**Girault, 891**; *Stethynium* sp. n.

Kieffer, 1234; Proctotrypidae 4 spp. n.—**Kieffer, 1242**; *Evania* sp. n.—**Kieffer, 1255**; Serphidae und Evaniidae.

Meade-Waldo, 1545; *Masaridae* 3 spp. n., gen. n.

Mocsáry, 1617; *Chrysis* sp. n.

Rohwer, 2070; *Zoyphium* sp. n.

Stitz, 2383; *Formicidae* spp. n.

Strand, 2396; *Podagrion* sp. n.—**Strand, 2441**; *Gasteruption* spp. n.

Turner, 2582; *Thynnidae* 7 spp. n.

Lepidoptera.

Hampson, 1000; *Ariathisa* sp. n.

Lower, 1440; *Hesperiidae* revision.

Meyrick, 1593; Revision of *Tortricina*.

Prout, 1949; W. Australia *Hypographa* sp. n.

Turner, 2572; many spp. n.

Warren, 2694; Queensland *Data* sp. n.

Neuroptera.

Navás, 1688; *Stilbopteryx* sp. n.

Diptera.

Becker, 123; *Chloropidae*, Monographie, gen. et spp. n.

Froggatt, 799; *Trypetidae* spp. n.

Lea, 1364; N.S.W. *Phoridae* gen. n.

Strickland, 2457; Australia and Tasmania *Culicidae* spp. n.

Hemiptera.

Distant, 581; *Pentatomidae* genn. n., spp. n.—**Distant, 582**; *Coreidae* and *Berytidae* 11 spp. n., genn. n.—**Distant, 583**; *Urabunana* sp. n.

Froggatt, 797; Salt-bush pest *Aleurodes*. — **Froggatt, 800**; *Tachardia* sp. n.

Poppius, 1919; Miriden spp. n.—**Poppius, 1920**; *Eurystylus* sp. n.

Thysanoptera.

Karny, 1204; *Thrips*-Gallen und Gallen-Thripse.

Odonata or *Paraneuroptera.*

Tillyard, 2530; *Cordulliinae* spp. n.—**Tillyard, 2531**; *Cordulephya* sp. n.

Orthoptera.

Karny, 1207; *Dicranocerus*, *Xiphidion* und *Xiphidiopsis* spp. n.

Giglio-Tos, 858; Cape York *Sphodropoda* sp. n.

Shelford, 2281; *Blattidae* 7 spp. n.

Werner, 2720; *Hierodula* sp. n.

Aptera.

Silvestri, 2304; *Heterojapyx* sp. n.

North America.

Insecta, collectively.

Webster, 2706; Diffusion in North America.

Banks, 90; Neuroptera s.l. many spp. n.

Blatchley, 192; Indiana *Orthoptera* and *Coleoptera*.

Britton, 265; Guide to the insects of Connecticut.—**Britton, J. Econ. Ent. 4** pp. 544–545; Adirondacks.

†**Cockerell, 455**; Florissant, Paussidae, *Hymenoptera* and *Diptera*, spp. n.

Cockerell, Canad. Ent. **43** p. 208; Colorado short list.

Coolidge, Ent. News 22 pp. 339–342; Collecting in southern Arizona.

Cook, 481; Galls of Michigan.

Dury, 636; Ohio.

Felt, 727; Report of the State entomologist on injurious and other insects of the state of New York.

†**Handlirsch, 1003**; New Paleozoic insects Mazon Creek, Illinois.—†**Handlirsch, 1005**; Tertiary Canada.

Heath, p. 327 Canad. Ent. **43**; Manitoba brief note.

Hewitt, 1062; Canada, plan for catalogue.

Shull, 2292; Saginaw bay, Michigan, *Thysanoptera* and *Orthoptera*.

Stebbins, 2370; Galls of Springfield.

Coleoptera.

Andrews, 37; Charity islands, Lake Huron.

Bowditch, 245; *Calligrapha* sp. n.

Casey, 374; *Alcocharinae* and *Myllaeninae* many spp. n.

Champion, Ent. News 22 p. 178; *Listronotus bagoiformis* Utah.

Champlain, Psyche 18 p. 35; *Caraidae*, Connecticut.—**Champlain**, *t.c.* pp. 170–173; Connecticut.

Davis, J. New York Ent. Soc. 19 p. 199; *Cicindela purpurea limbalis* New York.

Dury, 637; Cincinnatti new species and additions.—**Dury, 638**; North Carolina, 3 spp. n.

Fall, 716; *Pleocoma* sp. n.

Grinnell, Ent. News 22 p. 227; *Platypsylla castoris* California.

Heikertinger, 1030; Halticinenerten Europa und Nordamerika gemeinsam.

Hopkins, 1100; Monograph *Pissodes* spp. n.

Joutel, J. New York Ent. Soc. 19 p. 200; *Phymatodes longi* New Jersey.

Knab, Ent. News 22 p. 306; *Chrysomela staphylea*.

Kraus, 1302; *Lyctus* sp. n.

Leng, 1384; *Brachyacantha* spp. n. —**Leng, 1386**; *Dineutes* sp. n. Georgia. —**Leng, 1387**; *Luperodes* sp. n.—**Leng, 1388**; Georgia *Serica* sp. n.—**Leng, 1389**; *Diplotaxis* Staten Island.

Lewis, 1420; Arizona *Spilodiscus* sp. n.

Lutz, J. New York Ent. Soc. 19 p. 200; *Anthrenus fasciatus* Georgia.

McPherson, Trans. Kansas Acad. Sci. 23-24 p. 108; Kansas additions.

Mann, 1499; *Hetaerius* sp. n.—**Mann, 1500**; spp. n.

Mitchell & Pierce, 1607; Weevils Victoria county, *Artipus* sp. n.

Morris, 1644; Ontario.

Nunenmacher, 1740; *Coccinellidae* spp. n.

Schaeffer, 2160; spp. n.—**Schaeffer**, Canad. Ent. 43 p. 254; New York *Sphaeridium bipustulatum*.

Swaine, 2487; *Scolytidae* 4 spp. n.

Titus, 2533; *Hypera*, *Phytonomus* sp. n.

Wellman, 2717; *Hornia* sp. n. Kansas.

Wenzel & Wenzel, 2719; Ontario list.

†**Wickham, 2746**; Florissant new species.—**Wickham, 2747**; Iowa list.

Wolcott, 2768; New *Cleridae*.

Strepsiptera.

Pierce, 1894; spp. n.

Hymenoptera.

Banks, 89; *Psammocharidae* spp. n.

Beutenmüller, 173; *Andricus* 2 spp. n.—**Beutenmüller, 174**; n. sp. *Cynipidae*.—**Beutenmüller, 175**; *Dryocosmus* sp. n.—**Beutenmüller, 176**; *Dryophanta* sp. nov.

Brues, 287; *Ophioninae* spp. n.

Cameron, 357; *Macrojoppa* California.

†**Cockerell, 435**; Colorado gen. n. *Apidae*.—**Cockerell, 440**; *Triepeolus* sp. n.—**Cockerell, 441**; 7 spp. n., *Osmia*, *Chelynia* and *Stelis*.—**Cockerell, 442**; Canada *Apidae* list, *Tetralonia* sp. n.—**Cockerell, 443**; Texas and Arizona *Apidae* 3 spp. n.—**Cockerell, 445**; *Apidae* localities.—**Cockerell, 446**; *Osmia* sp. n.—**Cockerell, 447**; *Synto-*

maspis sp. n.—**Cockerell, 449**; *Mimatomus* gen. n. Colorado.—**Cockerell, 456a**; *Apidae* 3 spp. n.—**Cockerell, 459**; *Apidae* spp. n.—**Cockerell, 459a**; *Stelis* sp. n.—**Cockerell, 460**; *Nomada* spp. n.—**Cockerell**, Psyche Boston 18 1911 pp. 134-143; *Perdita* spp.

Crawford, 511; *Cheiloneurus* sp. n.—**Crawford, 512**; *Chalcididae* 2 spp. n., gen. n.—**Crawford, 513**; *Chalcididae* spp. n., gen. n.—**Crawford, 514**; *Chalcididae* spp. n.—**Crawford, 515**; 2 spp. n., *Halictus* and *Chalcis*.—**Crawford & Bradley, 516**; *Proctotrypidae* gen. n.

Crosby, 525; *Derostenus* sp. n.

Fullaway, 331; spp. n. *Cynipidae*.

Franklin, 778; *Bombus* and *Psithyrus* spp. n.

Gahan, 819; *Aphidiinae* spp. n.

Girault, 869; Illinois *Encyrtinae* 3 spp. n.—**Girault, 873**; *Arthrolytus* sp. n.—**Girault, 875**; *Anagrus* sp. n.—**Girault, 877**; *Dicopus* sp. n. Quebec.—**Girault, 880**; Chicago *Aphelinus* sp. n.—**Girault, 881**; *Abbella* sp. n.—**Girault, 883**; *Polynema* spp. n.—**Girault, 884**; *Mymar* sp. n.—**Girault, 885**; *Chalcidoidea* spp. n.—**Girault, 886**; *Trichogrammatidae*, genn. et spp. n.—**Girault, 887**; *Trichogrammatidae* spp. n.—**Girault, 888**; *Mymaridae* spp. n.—**Girault, 892**; *Chalcididae* gen. n.—**Girault**, Ent. News 22 p. 411; *Ufens niger*, Texas.

Graenicher, 918; Bees north-western Wisconsin, spp. n.

Hewitt, 1063; *Coelopisthia* sp. n.

Howard, 1119; *Coccophagus* sp. n.

Lovell, 1439; *Sphecodes* and *Prosopis*, spp. n.

Macgillivray, 1489; *Empria* 39 spp. n.

Metz, 1570; *Prosopis* spp. n.

Mocsáry, 1617; *Spintharis* 2 spp. n

Rohwer, 2065; *Caliroa* sp. n. Louisiana.—**Rohwer, 2068**; *Tenthredinoidea* n. spp.—**Rohwer, 2069**; *Hoplocampa*, revision, spp. n.—**Rohwer, 2070**; *Fossoria* spp. n.—**Rohwer, 2071**; *Chalastogastra* spp. n.

Santschi, 2146; Formicides 2 spp. n.

Viereck, 2633; *Ichneumonidae* spp. n.—**Viereck, 2634**; *Ichneumonidae*, *Braconidae*, spp. n.—**Viereck, 2636**; *Ichneumonidae* gen. n.—**Viereck**, Washington Proc. Ent. Soc. 13 pp. 93-99 & 148; Hymenoptera in Smith's Insects of New Jersey, third edition.

Wheeler, 2733; *Camponotus* sp. n.—**Wheeler, 2736**; Texas, *Atta* spp. n.—**Wheeler, 2738**; Arizona *Trachymyrmex* spp. n.

Lepidoptera.

Anon., Canad. Ent. 43 p. 340; Toronto 3 spp.

Barnes & McDunnough, 100; *Noctuidae* 2 spp. n.—**Barnes & McDunnough, 101**; Revision of *Cossidae*.—**Barnes & McDunnough, 104**; 3 spp. n. Additional new species of North American.—**Barnes & McDunnough, 105**; numerous spp. n., genn. n.—**Barnes & McDunnough, 106**; British Columbia *Olene* sp. n.—**Barnes & McDunnough**, Psyche 18 p. 34; Additions *Sphingidae*.

Bird, 187; 3 spp. n., *Papaipema* and *Hydroecia*.

Busck, 327; Boston *Gnorimoschema* sp. n.

Chagnon, 387; St. Fabien, Que., short list.

Coolidge & Clemence, 486; *Achalarus* sp. n. Arizona.

Davis, 555; Georgia, notes.—**Davis, 559**; Staten island list Macrolepidoptera.—**Davis**, J. New York Ent. Soc. 19 p. 198; *Vanessa milberti* New York.

Dod, 604; Alberta, *Noctuidae* geographical and critical notes.

Doll, 608; New Mexico, *Datana* sp. n.

Dyar, 641; *Olene* 2 spp. n.—**Dyar, 642**; *Myelois* sp. n.—**Dyar, 643**; *Basilodes* sp. n.—**Dyar, 644**; *Eustrotia* spp. n.—**Dyar, 645**; *Dioryctria* sp. n.—**Dyar, 646**; *Coloradia* sp. n.—**Dyar**, Washington Proc. Ent. Soc. 13 p. 15; Texas, *Halisidota annulosa*.—**Dyar**, T.c. p. 20; *Prodenia latifascia* and *Pecosina pandrosa*.

Fernald, Science 34 p. 488; *Alabama argillacea* Massachusetts.

Fountaine, 774; Alleghanies *Rhopalocera*.

Fyles, 817; *Gnorimoschema* sp. n.

Gibson, 856; Ottawa *Geometridae* list.

Grossbeck, 957; Manitoba *Selidosema* sp. n.

Hampson, 1000; Canada *Leucania* sp. n.

Heath, 1017; Manitoba annotated list.

Henninger, 1049; Seneca county.

Jones, 1176; *Eurycitarus* sp. n.

Pearsall, 1810; Arizona *Geometridae* 2 spp. n.—**Pearsall, 1811;** *Geometridae* 3 spp. n.—**Pearsall, 1812;** *Pero* sp. n. Utah.

Rowley, 2113; Lepidoptera of 1910.

Schaus, 2165; *Papilio* sp. n.

Schroers, Ent. News 22 pp. 322–324; St. Louis 1910.

Skinner, 2330; Canada and Wyoming, *Argynnis* and *Parnassius*, spp. n.—**Skinner, 2331;** *Hesperiidae*, new species or sub-species.—**Skinner,** Ent. News 22 p. 111; Florida and Texas *Timetes.*

Smith, 2340; *Acronycta* spp. n.—**Smith, 2341;** *Noctuidae* spp. n.—**Smith, 2342;** California *Pantheinae*, *Raphia* and *Acronycta.*

Stamm, Ent. News 22 pp. 422–423; Butterflies of Montour county.

Swett, 2491; Quebec *Eupithecia* sp. n.

Neuroptera.

Banks, Washington Proc. Ent. Soc. 13 p. 71; *Paranthaclisis hageni.*

Diptera.

Ainslie, Washington Proc. Ent. Soc. 13 pp. 118–120; *Chrysomyza demandata.*

Aldrich, 12; *Diostracus* sp. n.—**Aldrich, 13;** *Hydrophorus* spp. n.

Alexander, 15; New York *Tipulidae* 2 spp. n.—**Alexander, 16;** *Limnobia parietina*, New York.—**Alexander, 17;** *Tipulidae* gen. n.—**Alexander, 18;** *Tipulidae* spp. n.

Banks, 88; *Asilidae* 4 spp. n.—**Banks, 93;** *Aphiochaeta* sp. n.

Bishop, 189; *Dasyneura* sp. n. New York.

Caccini, 339; *Culicidae* delle paludi salate della costa N.-E. dell' Atlantico.

Cresson, 517; *Pipunculidae* spp. n.

Doane, 601; *Tipula* spp. n.

Felt, 732; *Endaphis* sp. n.—**Felt, 735;** *Rhopalomyia* sp. n. Ohio.—**Felt, 737;** *Cecidomyiidae* spp. n.—**Felt, 738;** Itonidae, spp. n.

Fulton, 816; *Stratiomyidae* Cedar Point.

Graenicher, 917; *Bombyliidae*, *Syrphidae* and *Conopidae.*

Hendel, 1047; Acalyptr. spp. n.

Hine, 1070; *Promachus* and *Proctacanthus*, spp. n.—**Hine, 1071;** *Nothomyia* sp. n.—**Hine, 1072;** *Erax* spp. n.

Kieffer, 1243; Chironomide genre nouv.

Ludlow, 1460; Alaska *Culex* sp. n.

Thompson, 2526; *Tachinidae* 2 spp. n.

Tucker, 2563; *Dolichopus* sp. n.

Van Duzee, 2602; Ontario annotated list.

Walton, 2689; *Syrphidae* 2 spp. n.—**Walton,** Ent. News 22 p. 182; Corrections New Jersey list.

Aphaniptera.

McCoy, 1483; *Ctenophthalmus* sp. n.

Hemiptera.

Ball, 85; *Jassidae* 9 spp. n.

Barber, 95; Arizona *Dendrocoris* spp. n.—**Barber, 96;** spp. n.—**Barber, 97;** *Coccidae* of Louisiana.—**Barber,** J. N. York Ent. Soc. 19 p. 111; *Pyrrhocoris apterus* New Jersey.—**Barber,** T.c. p. 198; Two Hemiptera new to New Jersey.

Bueno, 300; *Gerrinae* Atlantic states.

Cockerell, 448; *Pseudococcus* sp. n.

Crawford, 508, 509 & 510; American *Psyllidae.*

Crumb, 528; The Jassoidea of Kansas.

Davidson, 550; California, *Aphidae* 2 spp. n.—**Davidson, J.** Pomona College Ent. 3 pp. 398–399; *Aphididae* Placer county.

Davis, 553; *Aphididae* of Illinois List.

Davis, J. New York Ent. Soc. 19 pp. 112–113; Long Island, N.Y.

Distant, 583; Texas *Pacarina signifera.*

Ehrhorn, 666; 6 spp. n.

Essig, 707; *Aphididae* spp. n., southern California.

Gillette, 865; n. gen. and n. spp. *Aphididae.*—**Gillette**, 866; *Aphis* n. sp.

Heidemann, 1022; *Leptostyla* sp. n.

Kirkaldy, 1267; *Gerris* sp. n.

Osborn, 1783; *Scaphoideus* n. sp.—**Osborn**, 1784; Texas *Tinobregmus* sp. n.

Patch, 1799; *Psyllidae* spp. n.

Wilson, 2763; *Aphidae* genn. n., spp. n.

Thysanoptera.

Moulton, 1658; Synopsis, catalogue, new species.

Mallophaga (or *Lipoptera*).

Kellogg & Paine, 1220; from Californian birds.

Ephemeroptera.

Morgan, 1632; New York spp. n.

Odonata (or *Paraneuroptera*).

Muttkowski, 1676; *Gomphus* sp. n.—**Muttkowski**, 1677; *Ischnura* sp. n.—**Muttkowski**, 1678; Wisconsin new records, *Enallagma* sp. n.—**Muttkowski**, 1679; *Tetragoneuria* spp. n.

O'Brien, 1757; Douglas lake, Michigan.

Pollard, 1908; *Gomphoides ambigua* North Carolina.

Williamson, 2760; *Celithemis* sp. n.

Orthoptera.

Caudell, 378; Texas *Stipator* sp. n.—**Caudell**, 379; Forida *Mantoida mays.*—**Caudell**, 383; *Stipator* sp. n.

Davis, 557 & 558; Additions Staten island.

Rehn & Hebard, 1992; Georgia and Florida *Chortophaga* sp. n.—**Rehn & Hebard**, 1993; North Carolina.—**Rehn & Hebard**, Ent. News 22 pp. 5–10; Aweme, Manitoba.

Schimmer, 2178; neuo *Myrmecophila*-Art.

†**Sellards**, 2256; Permian Texas *Blattidae* 2 spp. n.

Sherman & Brimley, Ent. News 22 pp. 387–392; Orthoptera of North Carolina.

Woodward, 2774; Douglas lake, Michigan.

Aptera.

Silvestri, 2301; *Japygidae* 11 spp. n.—**Silvestri**, 2310; *Machilidae* spp. n.

Central America.

Insecta, collectively.

Silvestri, 2305; Mexico, new myrmecophilous.

Coleoptera.

Arrow, 43; Mexico *Golofa* sp. n.—**Arrow**, 44; 6 spp. n. *Ochodaeus* and *Dicracodon.*—**Arrow**, 46; *Dynastinae* 4 spp. n.

Bowditch, 243; *Diabrotica* 3 spp. n.—**Bowditch**, 244; Costa Rica *Diabrotica* 3 spp. n.—**Bowditch**, 245; *Calligrapha* etc., spp. n.

Casey, 375; Mexico *Aleocharinae* 3 spp. n.

Champion, 390; *Curculionidae* 5 spp. n.

Dugés, 627; Mexico, ? spp. n.

Grouvelle, 961; Cryptophagides Mexique 2 spp. n.

Lameere, 1351; Guatemala *Derobrachus* sp. n.

Leng, 1384; *Brachyacantha* spp. n.

Lesne, 1404; Mexico *Heterarthron* spp. n.

Lewis, 1420; Guatemala *Coptotrophis* sp. n.

Schmidt, 2183; *Aphodiini* 2 spp. n.—**Schmidt**, 2184; Mexico *Ataenius* sp. n.

Sharp, 2272, and **Champion, 391**; many spp. n., genn. n.

Théry, 2520; *Buprestidae* spp. n.

Tower, 2545; *Leptinotarsa* sp. n. Mexico.

Weise, 2712; *Microhopala* sp. n.

Wolcott, 2768; New *Cleridae*.

Hymenoptera.

Beutenmüller, 175; *Cynipidae* 2 spp. n.—**Beutenmüller, 178**; *Holcaspis* spp. n. Mexico.

Crawford, 513; *Nomia* spp. n.

Forel, 761; Mexico *Prenolepis* sp. n.

Franklin, 778; Mexico *Bombus* sp. n.

Girault, 868; Panama gen. n. *Chalcididae*.—**Girault, 878**; *Polynema* sp. n. Mexico.

Kieffers, 1234; *Proctotrypidae* 15 spp. n.—**Kieffer, 1235**; Mexiko *Dishol-caspis* sp. n.—**Kieffer, 1246**; Mexico *Stephanidae* gen. n.

Mocsáry, 1617; *Chrysididae* spp. n.

Rohwer, 2068; Mexico *Tenthredinidae* spp. n.—**Rohwer, 2070**; *Fossoria* spp. n.—**Rohwer, 2071**; *Tenthredinidae* spp. n.

Strand, 2414; *Megastigmus* sp. n. Mexiko.

Wheeler, 2740; *Formicidae* 3 spp. n.

Lepidoptera.

Barnes & McDunnough, 101; Lasiocampidae 2 spp. n. Mexico.

Bastelberger, 118; 2 spp. n., *Racheospila* and *Rutiaria*.

Dognin, 607; *Heterocera* spp. n.

Druce, 620; Costa Rica *Virbia* sp. n.

Dyar, 639; *Diatraea* spp. n.—**Dyar, 640**; *Hemileuca* spp. n. Mexico.

Jordan, 1185; Mexico *Rhescyntis* sp. n.

Rothschild, 2094; *Syntomidae* spp. n.

Schaus, 2162; Costa Rica, many spp. n., genn. n.—**Schaus 2163**; Costa Rica, nearly 200 spp. n.—**Schaus, 2165**; *Papilio* sp. n. Mexico.—**Schaus, 2166**; Costa Rica *Cassandria* sp. n.

Stichel, 2378; *Calephelis* sp. n.

Strand, 2392; Chiriqui *Trichostibas* sp. n.—**Strand, 2405**; Mexico *Anaxita* sp. n.

Walsingham, 2686; *Tincidae* many spp. n., genn. n.

Trichoptera.

Ulmer, 2590; Costa Rica gen. n.

Neuroptera.

Navás, 1686; incl. Lower California, *Chrysopides* 7 spp. n.

Diptera.

Enderlein, 680; Costa Rica, *Oscinosomini* spp. n.—**Enderlein, 687**; Costa Rica *Baryplegma* sp. n.

Felt, 737; *Bruggmanniella* sp. n.

Hendel, 1044; *Richardiinae* spp. n.

Hine, 1070; Mexico *Proctacanthus* sp. n.

Kröber, 1314; *Therevidae* spp. n.

Hemiptera.

Crawford, 508; *Psyllidae, Triozinae*, spp. n.—**Crawford, 509**; *Psyllidae* spp. n.

Distant, 580; Guatemala *Banasa* sp. n.—**Distant, 591**; *Rihana* sp. n.—**Distant, 592**; *Rihana* sp. n. Mexico.

Horváth, 1107; Nicaragua *Hespercotenes* sp. n.—**Horváth, 1107**; Panama *Oplomus* sp. n.

Schmidt, 2188; *Phera* sp. n.

Odonata (or *Parancuroptera*).

The habits of the plant-dwelling larva, Odonata; **Calvert, 343-345.**

Orthoptera.

Borelli, 225; Costa Rica, 5 spp. n. d Dermatteri.

Griffini, 942; Mexico *Gryllacris* sp. n.

Antilles.

Incl. Bermudas; excl. Trinidad.

Coleoptera.

Champion, 391; *Curculionidae* spp. n.

Fleutiaux, 752; *Trixagidae*, *Melasidae* et *Elateridae*.

Prell, 1944; Cuba, *Homophileurus* sp. n.

Schaeffer, 2160; *Phanocerus* sp. n.

Hymenoptera.

Crawford, 514; *Chalcididae* spp. n.

Wheeler, 2727; Ants Grenada.—**Wheeler, 2732**; Jamaica.

Lepidoptera.

Buxton, Rep. Rugby School Soc. 1910 p. 25; Jamaica *Rhopalocera* brief list.

Prout, 1949; Porto Rico *Leuciris* sp. n.

Rothschild, 2094; Cuba *Eurola* sp. n. Dominica *Episcepsis* sp. n.

Diptera.

Cresson, 517; Cubæ and Bermuda *Pipunculidae* spp. n.

Felt, 729; St. Vincent *Cecidomyiidae* 2 spp. n.—**Felt, 731**; Cecidomy. 2 spp. n.—**Felt, 734**; *Cecidomyiidae* 4 spp. n.—**Felt, 737**; Jamaica *Mycodiplosis* sp. n.—**Felt, 738**; *Itonidae* spp. n.—**Felt, 740**; *Lasioptera* sp. n.

Kröber, 1314; St. Thomas *Psilocephala* sp. n.

Hemiptera.

Bergroth, 148; Jamaica *Plocariinae*. sp. n.

Crawford, 509; *Psyllidae* spp. n.

Raguéz, 1971; Cuba, notes etc.

South America, including Trinidad.

Insecta, collectively.

Kieffer & Herbst, 1256; Gallen und Gallentiere Chile.

Urich, 2595; Trinidad insects affecting the sugar cane.

Coleoptera.

Arrow, 43 *Golofa* 2 spp. n.—**Arrow, 44**; Paraguay *Hapalonychus* sp. n.—**Arrow, 46**; *Dynastinae* 12 spp. n.

Aurivillius, 58; Cerambycidae Brasilien 1 sp. n., Süd-Chile 1 sp. n.

Beguin-Billecocq, 132; *Apion* 2 spp. n.

Bernhauer, 156; Staphyliniden n. genn. et spp.

Bickhardt, 186; *Histeridae* spp. n.

Boileau, 200; *Sphenognathus* 2 spp. n.

Bourgeois, 234; *Mélyrides* Equateur.—**Bourgeois, 235**; Équateur Malacodermes 5 spp. n.

Bourgoin, 239 & 240; *Allorrhina* spp. n.

Bowditch, 243 & 244; *Diabrotica* 42 spp. n.—**Bowditch, 245**; *Calligrapha* etc., spp. n.

Breyer y Trant, 261; *Epicauta* sp. n.

Bruch, 283; *Phaenognatha* sp. n. and *Dynastidae* gen. n.—**Bruch, 284**; Argentina Catalogue.

Champion, 390 & 391; *Curculionidae* spp. n.

Denier, 565; *Pseudomeloe* sp. n. Pérou.

Felsche, 726; Coprophage Scarabaeiden spp. n.

Gebien, 834; *Phrenapates* spp. n.

Germain, 844 & 846; Chile, classification notes; and catalogue.

Gillet, 864; *Copridae* 6 spp. n.

Gounelle, 907; Liste des Cérambycides de la région de Jatahy, many spp. n.—**Gounelle, 908**; *Callichroma* du Brésil méridional.—**Gounelle, 909**; Argentine *Trachyderini* gen. n.

Grouvelle, 969; Paraguay *Epuraea* sp. n.

Heller, 1038; *Oxycorynus* sp. n.

Horn, 1105; *Ctenostoma* 3 spp. n.

Hubenthal, 1126; *Pheropsophus* n. sp.

Jordan, 1184; Amazons *Hypselotropis* sp. n.

Kolbe, 1286; *Curculionidae* gen. n. Argentinien.

Leng, 1384; *Brachyacantha* spp. n.

Lesne, 1401; Pérou *Chondrotheca* n. g.—Lesne, 1408; Argentin *Natalis* sp. n.—Lesne, 1409; *Dexicrates* de la faune chilienne en Argentine.—Lesne, 1413; Chile *Anobiidae* gen. n.

Lewis, 1420; 2 spp. n., *Omalodes* and *Trypanaeus.*

Moser, 1651 & 1654; *Allorrhina* sp. n.

Ohaus, 1761; Neue lamellicornia Argentinien.—Ohaus, 1762; subgen. nov. Melolonthinarum.—Ohaus, 1764; *Philcurini* genn. et spp. n.

Olivier, 1775; Misiones *Lampyridae* 7 spp. n.—Olivier, 1777; Guiana *Photuris* sp. n.

Pic, 1858; Téléphorides américains nouveaux.—Pic, 1859; *Zonitis* 2 spp. n. —Pic, 1868; Brazil *Dromanthus* 3 spp. n.—Pic, 1869; Parana *Dromanthus* sp. n.—Pic, 1875; 4 spp. n., *Dromanthus, Silis, Anthicus* and *Spermophagus.*

Prell, 1942; *Podischnus* sp. n.—Prell, 1944; Dynastinen spp. n.

Schmidt, 2183; 2 neue Aphodiinen.—Schmidt, 2184; Argentina *Euparia* sp. n.

Schubert, 2226; *Staphylinidae* spp. n.

Sicard, 2294; Equateur *Coccinellidae.*

Spaeth, 2359; *Cassididae* spp. n., genn. n.

Strohmeyer, 2464; Peru *Platpyus* sp. n.

Théry, 2520; *Buprestidae* spp. n.

Wasmann & Holmgren, 2702; *Staphylinidae* 2 spp. n.

Weise, 2712; *Hispidae* many spp. n. —Weise, 2714; *Coccinellidae* 4 spp. n.

Hymenoptera.

Bradley, 247; Brazil *Ornepetes* sp. n.

Bréthes, 260; *Pompilus* and *Salius* 6 spp. n.

Cameron, 349; Brit. Guiana *Hym.* parasitica many spp. n., genn. n.

Cockerell, 439; Peru *Apidae* 3 spp. n.—Cockerell, 444; Peru *Psenulus* sp. n.—Cockerell, 456; Patagonia *Anthidium* sp. n.

Crawford, 515; *Chalcididae* gen. n.

Ducke, 625; *Chrysididae.*—Ducke 626; Brazil *Eumenidae* spp. n.

Emery, 674; *Eciton* and *Camponotus*, 6 spp. n.

Forel, 761; Brasilien etc. *Formicidae* spp. n.—Forel, 763; *Formicidae* spp. n.

Friese, 785; *Apidae* 4 spp. n.—Friese, 788; Bolivia *Xylocopa* sp. n.

Girault, 868; Trinidad spp. n., Chalcidoidea.—Girault, 872; Peru *Acoloides* sp. n.—Girault, 893; New Chalcidoid gen. and sp. Paraguay.

Ihering, 1134; 6 spp. n., *Zethus* and *Discoelius.*

Kieffer, 1234; Bethylidae gen. n.

Mocsáry, 1617; *Chrysididae* spp. n.

Pérez, 1826; Chile *Apidae* 4 spp. n.

Rohwer, 2071; Patagonia etc. *Chalastogastra* genn. n.

Santschi, 2143; *Eciton* sp. n.—Santschi, 2144; Ecuador *Pheidole* sp. n.—Santschi, 2149; Buenos Ayres *Apterostigma* sp. n.

Schrottky, 2218; *Ichneumonidae* 4 spp. n.—Schrottky, 2219; *Apidae* 24 spp. n.—Schrottky, 2221; *Aculeata* 35 spp. n., gen. n.—Schrottky, 2222; N. spp., *Podagrion, Elachertus, Monomachus, Pachymenes, Hypodynerus, Stenodynerus, Alastor, Polybia, Planiceps, Megalomma, Cerceris, Pseudagapostemon, Neocorynura, Anthophora, Euglossa, Trigona.*—Schrottky, 2223; *Apidae* 19 spp. n., gen. n.—Schrottky, 2224; *Dianthidium* sp. n.

Strand, 2394; *Stenopistha* spp. n.—Strand, 2396; *Epistenia, Aepocerus* und *Podagrion* spp. n.—Strand, 2397; Peru und Equador, *Aculeata* spp. n.—Strand, 2410; *Stenophasmus* 2 spp. n.—Strand, 2412; *Eucera* sp. n. Brasilien.—Strand, 2414; *Leucospis* spp. n.—Strand, 2430; Chalcididen spp. n.—Strand, 2448; Chalcididen *Lycisca* und *Hontalia.*

Szépligeti, 2496; *Braconidae* 2 spp. n.

Turner, 2580; *Fossoria* 4 spp. n.

Vachal, 2600; *Halictus* d'Amérique.

Viereck, 2634; *Braconidae* 2 genn. n. —Viereck, 2635; *Braconidae* 2 spp. n.

Zavattari, 2788; Brésil *Synoecoides* sp. n.—Zavattari, 2790; N. spp., *Discoelius, Zethus, Eumenes, Alastor.*

Lepidoptera.

Bastelberger, 115; *Hemithecinae* 3 spp. n.—**Bastelberger, 118**; Geometriden spp. n.

Brabant, 246; Noctuelles Guyane française.

Busck, 326; Trinidad *Leucophasma* sp. n.—**Busck, 328**; *Tortricidae* and *Tineidae* many spp. n.

Dognin, 606; *Bombyces, Noctuidae* and *Geometridae*, many spp. n.—**Dognin, 607**; many spp. n., genn. n.

Druce, 619; 20 spp. n., *Aegeriidae, Syntomidae, Hypsidae, Lithosiidae, Cossidae Notodontidae, Geometridae.*—**Druce, 620**; 31 spp. n. *Bombyces* and *Noctuidae.*—**Druce, 621**; 9 spp. n., *Homocoscera, Pericopis, Darna, Josiomorpha, Dirphia, Polia* and *Crambus.*

Dyar, 639; *Diatraea* spp. n.

Fletcher, 748; Ega *Sochchora* sp. n.

Giacomelli, 850, 851, 852; spp. n. *Rhopalocera* and *Heterocera.*

Hampson, 1000; 22 spp. n.

Jordan, 1185; *Saturniidae* 2 spp. n., gen. n.

Kaye, 1209; *Syntomidae* 18 spp. n.

Kearfott, 1210; 3 spp. n., *Anacrusis* and *Stenoma.*

Le Cerf, 1376; Argentina *Castnia* sp. n.

Le Moult, 1381; Argentina *Ischnopteryx* sp. n.

Niepelt, 1729; *Catoblepia* sp. n.

Paravicini, 1796; *Tatochila* sp. n.

Prout, 1949; *Geometridae* 10 spp. n.

Rothschild, 2095; *Aegeriidae* 5 spp. n.—**Rothschild, 2094**; *Syntomidae* many spp. n.—**Rothschild, 2096**; *Syntomidae* and Arctiinae 14 spp. n.

Schaus, 2166; *Paectes* and *Cassandria* spp. n.

Schrottky, 2220; Argentina *Papilio.*

Stichel, 2378; *Riodinidae* spp. n.

Strand, 2392; *Trichostibas* 3 spp. n.—**Strand, 2398**; Sechs Gelechiidae, Argentinien.—**Strand, 2405**; *Anaxita* 2 spp. n.—**Strand, 2407**; Uraniiden 6 spp. n.—**Strand, 2420**; *Automeris* sp. n.—**Strand, 2427**; *Ithomeis* sp. n.—**Strand, 2429**; Ecuador *Cryptolechia* sp. n.—**Strand, 2432**; Ecuador Heterocera 5 spp. n.—**Strand, 2439**; *Corynura* sp. n.—**Strand, 2440**; Brasilien, *Pericopis* sp. n.

Tremoleras, 2556; Uruguay notes.

Walsingham, 2686; *Tineidae* spp. n.

Weymer, 2525; *Taygetis* 2 spp. n.

Trichoptera.

Ulmer, 2590; 4 spp. n., genn. n.

Neuroptera.

Navás, 1686; *Chrysopides* 5 spp. n.—**Navás, 1682**; *Nallachius* sp. n.—**Navás, 1691**; *Ascalaphidae* 3 spp. n.—**Navás, 1697**; Callanga *Mantispa* sp. n.

Diptera.

Aiken, 8; Brit. Guiana *Culicidae* synopsis.

Brues, 285; Paraguay *Phoridae* spp. n.

Enderlein, 687; *Trypetidae* 4 spp. n.—**Enderlein, 680**; Oscinosominen, genn. et spp. n.—**Enderlein, 685**; Chloropiden n. gg. et spp.—**Enderlein, 686**; Chloropinen, spp. n.

Felt, 730; *Lestodiplosis* Peru.—**Felt, 732**; *Endaphis* sp. n.—**Felt, 739**; *Cecidomyidae* 3 spp. n. Panama.

Hendel, 1044; *Richardiinae* spp. n.—**Hendel, 1047**; Acalyptr. spp. n.

Kröber, 1314; Thereviden spp. n.

Lutz, 1471; *Tabanidae* spp. n., gen. n.

Lutz & Neiva, 1472; *Culicidae* 2 spp. n.

Speiser, 2362; 2 spp. n., *Fungivora* and *Richardia.*

Stein, 2373; Anthomyiden genn. n., spp. n.

Strickland, 2458; Paraguay *Janthinosoma* sp. n.

Summers, 2470; Guiana *Dichelacera* sp. n.

Wise, 2566; Demerara *Simulium* sp. n.

Aphaniptera.

Rothschild, 2088; Chile and Ecuador gen. n.

Hemiptera.

Bergroth, 145; *Armini* spp. n.—**Bergroth, 148**; *Pleoariinae* spp. n.—**Bergroth, 149**; *Reduviidae* gen. n.

Crawford, 509; *Psyllidae* spp. n., gen. n.

Distant, 580; *Pentatomidae* 19 spp. n., genn. n.—**Distant, 581**; *Pentatomidae* genn. n., spp. n.—**Distant, 583**; *Cicadidae* 3 spp. n.

Hempel, 1042; gen. n. Guiana.

Horváth, 1107; spp. n.

Leonardi, 1391; Argentina 25 spp. n.

Montandon, 1625; Brésil gen. n. *Hydrocorisae*.—**Montandon, 1626**; Ecuador *Cyphocricus* sp. n.—**Montandon, 1627**; Argentina *Ranatra* sp. n.

Reuter, 2026; Brasilia *Capsidae* spp. n.

Schmidt, 2186; Neue Coreiden-Gattung.—**Schmidt, 2188**; 7 spp. n.

Thysanoptera.

Karny, 1208; Paraguay, genn. et spp. n.

Isoptera.

Holmgren, 1093; Monographie der amerikanischen *Eutermes*.—**Holmgren, 1095**; *Syntermes* n. spp.

Embioptera.

Krauss, 1303; spp. n.

Lipoptera or *Mallophaga.*

Kellogg & Paine, 1219; Bolivia 2 spp. n.

Ephemeroptera.

Navás, 1698; Colombia gen. n.

Plecoptera.

Navás, 1685; *Neoperla* sp. n.

Odonata or *Paraneuroptera.*

Navás, 1692; 3 spp. n., 2 genn. n.

Ris, 2047; *Rhodopyga* sp. n.

Orthoptera.

Bruner, 291; *Tetrigidae* spp. n.

Burr, 325; Dermapteren 3 spp. n.

Griffini, 945; *Hyperbaenus* 2 spp. n.—**Griffini, 951**; Ecuador *Gryllacris* sp. n.

Karny, 1207; spp. n.

Kuthy, 1336; Bolivia *Cephalocoema* n. sp.

Rehn, 1989; Paraguay 4 spp. n., gen. n.—**Rehn, 1990**; *Mantidae* 2 spp. n.

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lucasi, *basilewsi*, *nigrobachiana*, *obscurana*, Kamerun, spp. n., *angolella* var. n. *waterbergensis* S.-Afr., pp. 124–128, *latimaculacola*, *mangana*, Togo, *meriani* Seychellen, *kalonana* O.-Afr., *capensiana* Kapland, spp. n., pp. 132–133; *M. mastibia*, *armipygata*, *ramsdalei*, *sinuibaria*, *austrocatella*, *ruficholoides*, *pathopteriana*, spp. n., O.-Africa, STRAND pp. 136–162 Ergebn. deutsch. Z. Afrik. Exp. 3.— *M.* (*Eumeschille*) *diana* p. 315, *disjunctiformis* p. 316, *takonis* p. 317, *kagiana*, *rufocillata*, p. 318, spp. n., Formosa, COCKERELL Ann. Nat. Hist. 7.—*M. igaiscopata*, *spissata*, p. 486, *tranquilla* p. 487, *victor* p. 488, *alduta*, *subasta*, p. 489, *asperuata* p. 490, spp. n., Formosa, *rufovittata* p. 485, COCKERELL T.c.— *M. caldwelli* sp. n. China p. 284, *bicolor taiwana* subsp. n. p. 283, *pierrensis* sp. n. Peru p. 288, COCKERELL Ann. Nat. Hist. 8.—*M. godefroyi*, *gigantea*, *heidei*, *fruchi*, *luteiceps*, spp. n., Sundaïas., FRIESE pp. 217–219 Deutsche ent. Zeitschr. 1911.—*M. globerrima*, *rufonitens* Austral., *insulata* Neu Guinea, *fabricatrix* Fidji-Ins., spp. n., FRIESE pp. 452–453 T.c.—*M. martini* sp. n. Kei-Ins., FRIESE p. 226 Abh. Senckenberg Ges. 44.—*M. tasa* sp. n. Neu-Guinea, STRAND p. 87 Int. ent. Zeitschr. 5.—*M. lorentzi* sp. n. Neu Guinea, FRIESE Nova Guinea 9 p. 263. —*M. bougainvilliana* sp. n. Salomonsinseln. STRAND Entom. Ztg Wien 30 p. 79.—*M. mendanae*, *bougainvillei*, *shortlandi*, *carteretі*, *woodfordi*, spp. n., Solomon Islands, COCKERELL P. Linn. Soc. N.S.W. 36 pp. 170–173.—*M. pamirensis* Pamir p. 251, *ladacensis* p. 252, *rupshuensis* p. 253, Ladak, spp. n., *M. sayi paludicola* subsp. n. Texas p. 254, COCKERELL Washington Proc. U. S. Nation. Mus. 40.—*M. assumptionis*, *proserpinae*, p. 233, *fiebrigi* Paraguay, *chubutana* Chubut, p. 234, *bertonii*, *paraguayensis*, Paraguay, *gipsa*, p. 235, *campinensis* Brazil, *guaraunisiae*, with subsp. n. *aruguayensis* and f. n. *selenopygia* Paraguay, p. 236, *calamarcensis* Argentina p. 237, *dapsa* Paraguay p. 238, spp. n., *fossoris leucocentra* p. 236 and *lacta anisitsi* p. 237, subspp. n., SCHROTTKY An. Soc. Argent. 65 1908.—*M. perparva* p. 267, *sanctaemariae* p. 268, spp. n., Paraguay, *gomphrena* and *calamarcensis* with varr. p. 268, SCHROTTKY An. Soc. Argent. 68 1909.—*M. sola* *mani* sb. n. *evidisjuncta*, STRAND Wien Ent. Ztg 30 p. 155, *M. albifrons*, food habits, BURKILL J. As. Soc. Beng. 6 p. 102.

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Karvar, *nudgara* Andamanen, *kumara* Engano, *mahamaya* Lombok, *alaca* Palawan and *cerauna* Mindanao, *arete* subspp. n. *anatha, advipa, velitra* and *nagaraja* Molukken, *dyrta* subspp. n. *yoga* Malay Archip., *permagnis* China, *anunda* Java and *sambaluna* Lombok, *minerva* subsp. n. *tritogencia* Tenasserim, *kansa* subspp. n. *zengitana* Assam, *vaja* Tenerassim, *vindhya* subsp. n. *lactesta* Tenerassim, *mekara* f. n. *vajra, L. m.* subspp. n. *zuchara* Assam, *crignana* Tonkin, *gopaka* Perak, *debata* Assam, etc., and *sumati* Borneo, *L. manthara* f. n. *mangala* Java, *chandica* subspp. et ff. n. *flanona, suvarna, rahula, ratnapandi, sisapon, byzaccus jomaria, namura* and *marga* Indien, Malay Arch., *diana* subsp. n. *celega* Hondo, *gulnihal* f. n. *issa* Birma, *latiaris* subsp. n. *perimele* Tenerassim *verma* subspp. n. *sintica* Sikkim and *saturnus* China, pp. 320–324, *L. plistia* n. n. für *gelduba* Fruhst. p. 394, Fruhstorfer Seitz Gr.-Schm. Indoaustr. Div.

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Amathuxidia amythaon subspp. n. *octacilia* Borneo and *perinthas* Mindanao, FRUHSTORFER p. 433 T.c.

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Ancyluris etias subspp. n. *gracilis* Surinam, *melior* Amazonas, *A. eudaemon* Peru, *pomposa* S. Paulo de Olivenca, **spp. n.**, *A. aulestes* ff. n. *aulica*, *insolita* Amazonas, Bolivia, STICHEL pp. 97–100 T.c.

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Emesis lucinda subspp. n. *opaca* Franz. Guayana and *castigata* Peru, *russula* **sp. n.** Brasilia, *tenedia* subsp. n. *ravidula* Brasilia, STICHEL Berliner ent. Zs. **55** pp. 37–41.

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Dictyoploca **gen. n.** near *Caligula*, JORDAN Seitz Gr.-Schm. pal. Div. p. 218.

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Drepana falcataria ab. n. *crassistrigaria*, *curvatula* f. n. *japonibia*, *binaria* ff. n. *liliputaria* and *oranaria*, *griseoaripennis* n. n. für *griseoaria* Leech, *argenteola* ab. n. *simplificaria*, STRAND Seitz Gr.-Schm. pal. Div. pp. 199–202.

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Dryocampa inversa **sp. n.** Argentina, *bilineata* var., GIACOMELLI p. 34 An. Soc. Argentina **72.**

Dylomia diversa Amérique sud **sp. n.**, DOGNIN p. 40 Hét. nouv. **2.**

Ecdemus obscuratum **sp. n.** Costa Rica, SCHAUS p. 180 Ann. Nat. Hist. **7.**

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Elysius aeschista Amérique du sud **sp. n.**, DOGNIN p. 10 Hét. nouv. **3.**

Endrosa roscida melanomos ab. n. *fumosa*, SCHWINGENSCHUSS Verh. Zool-Bot. Ges. Wien **61** p. (181).—*E. aurita*, Schallapparat, PETER Greifswald Mitt. Ver. **42** pp. 24–31.

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Eressades **gen. n.** *Syntomidae*, *flavipunctata* **sp. n.** Angola, BETHUNE-BAKER p. 531 Ann. Nat. Hist. **7.**

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Eriogyna **gen. n.** near *Saturnia*, *pyretorum* subspp. n. *cognata*, *luctifera* China, JORDAN Seitz Gr.-Schm. pal. Div. p. 221.

Euagra delectans **sp. n.** Costa Rica, SCHAUS p. 612 Ann. Nat. Hist. **7.**

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E. patula Perou **sp. n.**, Dognin p. 5 op. cit. **3.**

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Euchromia jacksoni **sp. n.** Uganda, Bethune-Baker p. 531 Ann. Nat. Hist. **7.**—*E. brilliantina* Buru, *wahnesi* New Guinea, **spp. n.**, *neglecta neglecta* and *n. occidentalis*, subspp. n., Rothschild p. 38 Nov. Zool. **18.**

Euclea lamora, *aethes*, **spp. n.**, Colombie, Dognin p. 61 Hét. nouv. **3.**—*E. phara*, *parva*, *flexilinea*, *assimilis*, *columbiana*, not *Sisyrosea*, Dyar Proc. Ent. Soc. Washington **13** p. 106.

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Oroscopa delicata, calverti, p. 224, *hacupha* p. 225, spp. n., Costa Rica, Schaus Ann. Nat. Hist. 8.

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(Incl. *Uraniidae, Epiplemidae* and *Cymatophoridae.*)

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A visitation of Geometrid moths, Davis Proc. Staten Is. Ass. **2** p. 130.

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Notaulacella gen. n. *Chloropidae*, *armillata* sp. n. Brasil, ENDERLEIN p. 11 Zool. Anz. 38 and *Notaulacella* gen. n. near *Tricimba*, *armillata* sp. n. Brasil, ENDERLEIN p. 212 SB. Ges. Naturfr. 1911.

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Ochtherisoma gen. n. verwandt mit *Hemisphaerisoma*, *imitator* sp. n. Java, BECKER Ann. Mus. Hung. 9 pp. 39–40 Taf. i Fig. 7.

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Oleanabates gen. n. *Chloropidae*, *strigatus* sp. n. Brasil, ENDERLEIN p. 10 Zool. Anz. 38 and *Oleanabates* gen. n. *strigatus*, *sulcatus*, spp. n., Brasil,

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Onychaspidium **gen. n.** *Chloropidae, sexdentatum* **sp. n.** Brasil, ENDERLEIN p. 10 Zool. Anz. **38** and *Onychaspidium* gen. n. near *Oscinosoma, sexdentatum* **sp. n.** Brasil, ENDERLEIN p. 196 SB. Ges. Naturfr. **1911.**

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Poecilimon ; Bau der Cerci, *scythicus* p. 170 Land der Don'schen Kosaken, *aj-petri* p. 173 ff. 12–13 Krim, *heroicus* p. 175 f. 14 Land der Don'schen Kosaken, spp. n. (Russ. + lat. diagn.), ŠČELKANOVCEV Varšava Rab. zool. kab. Univ. **1910**.

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Rhaphidophora kuthyi sp. n. N. Guinea, GRIFFINI Ann. Mus. Hung. **9** p. 565.

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Spizaphilus = (*Butleria* Br. = *Butleridia* Bol.), taxonomy, GRIFFINI p. 491 Rev. suisse Zool. **19**.

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Tachycines asynamorus, Lebensweise, in Moskau (Russ.), BOLDYREV Rev. russ. ent. **11** p. 437.

Temnophyllus knighti sp. n. Malay penins. p. 93 pl. iii, KIRBY Ann. Nat. Hist. **7**.

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Xiphidiopsis quadrimaculata sp. n. Victoria, KARNY Verh. ZoolBot. Ges. Wien **61** pp. 334–347.

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Staten Island grouse locusts, DAVIS Proc. Staten Is. Ass. **2** p. 148.

Acanthoxia procera sp. n. Congo, BOLÍVAR p. 302 Ann. Soc. ent. Belgique **55**.

Acolopus terpestinus Var., IKONNIKOV Rev. russ. ent. **11** p. 105.

Acridoderes laevigatus sp. n. Congo, BOLÍVAR p. 303 Ann. Soc. ent. Belgique **55**.

Allotettix fuscipennis p. 115, *chapadensis* p. 117, spp. n., Brazil. BRUNER Ann. Carnegie Mus. **7**.

Apteropedon gen. n. p. 139, *apicale* sp. n. Rio de Janeiro p. 140, BRUNER T.c.

Arcyptera fusca albogeniculata var. n., IKONNIKOV Ann. mus. zool. **16** p. 250.

Biroëlla bolivari sp. n. N. Guinea, KUTHY Ann. Mus. Hung. **9** p. 294.

Bryodema semenovi sp. n. Semiretshje, IKONNIKOV Rev. russ. ent. **11** p. 356.—*B. tuberculatum* Ostsibirien, var., p. 255, *luctuosum vitrea* var. n. Irkutsk p. 256, IKONNIKOV Ann. mus. zool. **16**.

Cannula sagitta sp. n. Congo, BOLÍVAR p. 298 Ann. Soc. ent. Belgique **55**.

Cardenius bivittatus sp. n. Congo, BOLÍVAR p. 305 T.c.

Cephalococma fusca sp. n. Bolivia, KUTHY Ann. Mus. Hung. **9** p. 295.

Chortippus dorsatus, Varietäten, IKONNIKOV Rev. russ. ent. **11** p. 104. —*C. karelini* = *dorsatus* var. *fuliginosus*, IKONNIKOV Rev. russ. ent. **11** p. 352.

Chortophaga australior **sp. n.** Georgia p. 589, REHN & HEBARD Proc. Acad. Philadelphia **62**.

Congoa **gen. n.** p. 303 near *Acridoderes*, *katangae* **sp. n.** Congo, BOLÍVAR p. 304 Ann. Soc. ent. Belgique **55**.

Dibastica elegans **sp. n.** Congo, BOLÍVAR p. 302 T.c.

Eirenephilus **gen. n.** Acridiidarum, *debilis* **sp. n.** Ostsibirien, IKONNIKOV Ann. mus. zool. **16** pp. 264–267 pl. v ff. 5 & 6.

Epacromia tergestina Varietäten var. *viridis* Synonymie (Russ.), IKONNIKOV Rev. russ. ent. **11** p. 353.

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Gladiotettix hancocki **sp. n.** Brazil, BRUNER Ann. Carnegie Mus. **7** p. 102.

Gomphocerus similimus **sp. n.** Irkutsk, IKONNIKOV Rev. russ. ent. **11** p. 98.

Lophoscirtus **gen. n.** p. 138 type *Tettigidea gracilis*, BRUNER Ann. Carnegie Mus. **7**.

Lophotettix **gen. n.**, *lineatus* **sp. n** Brazil, p. 137, BRUNER T.c.—*L.*, CAUDELL p. 156 Canad. Ent. **43**.

Maura clavata **sp. n.** Congo, BOLIVAR p. 300 Ann. Soc. ent. Belgique **55**.

Metaxymecus; limitation of, BOLIVAR p. 306 T.c.

Micronotus hancocki **sp. n.** Trinidad p. 121, BRUNER Ann. Carnegie Mus. **7**.

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Ognevia **gen. n.** Acridiidarum, *sergii* **sp. n.** Ussuri-Land, IKONNIKOV Ann. mus. zool. **16** pp. 267–269 pl. v f. 7.

Oreacris **gen. n.** p. 298 near *Pyrgodera*, *luctuosa* **sp. n.** Congo p. 299, BOLIVAR Ann. Soc. ent. Belgique **55**.

Otamba peruviana Peru p. 111, *basalis* Brazil p. 112, **spp. n.**, BRUNER Ann. Carnegie Mus. **7**.

Oxya annulicornis **sp. n.** Formosa, MATSUMURA p. 129 Mem. Soc. ent. Belgique **18**.

Pachytilus migratorius, Lebensgewohnheiten etc. im Syr-Darja-Gebiet (Russ.), NIKOLISKIJ Naturfreund **6** 8–9 Beil. pp. 1–13 pp. 1–4.—*P. migratorius* u. *donicus* im Gouv. Stavropol, Eiablage, Entwicklung, Merkmale der Larven (Russ.), UVAROV Naturfreund **6** 8–9 Beil. pp. 13–22 ff. 1–4.

Petamella infumata **sp. n.** Congo, BOLIVAR p. 302 Ann. Soc. ent. Belgique **55**.

Phlacoba horvathi **sp. n.** Africa orient., KUTHY Ann. Mus. Hung. **9** p. 295.

Platytettix gibbinotus p. 99, *uniformis* p. 100, **spp. n.**, Brazil, BRUNER Ann. Carnegie Mus. **7**.

Podisma koeppeni Erganzende Beschreibung p. 260 pl. v f. 2, *parvula* **sp. n.** pp. 260–261 pl. v f. 3, *frigida* Beschreibung p. 262, *aberrans* p. 262, *solitaria* p. 263 pl. v f. 4, **spp. n.**, Ostsibirien, IKONNIKOV Ann. mus. zool. **16**.—*P. almazyi* = *Conophyma semenovi*, IKONNIKOV Rev. russ. ent. **11** p. 361.

†*Promastax* **gen. n.**, *archaicus* **sp. n.** Tertiary Canada, HANDLIRSCH p. 97 Contr. Canad. Pal. **2**.

Prumna primnoa Ost-Sibirien Beschreibung, Variieren, Copula p. 258, *primnoides* **sp. n.** p. 259 pl. v f. 1 Ussuri-Land, IKONNIKOV Ann. mus. zool. **16**.

Ptemoblax lemairei **sp. n.** Congo, BOLIVAR p. 304 Ann. Soc. ent. Belgique **55**.

Pyrgodera armata Färbung (Russ.), UVAROV Rev. russ. ent. **11** p. 426.

Racilia okinawensis **sp. n.** Formosa, MATSUMURA p. 130 Mem. Soc. ent. Belgique **18**.

Sclerotettix **gen. n.** p. 104, **spp. n.** *abbreviatus* p. 105, *tibialis* p. 106, *variegatus* p. 107, *infuscatus* p. 107, *minor* p. 109, Brazil, BRUNER Ann. Carnegie Mus. **7**.

Sphingonotus coerulans f. n. *intermedia* Deutschl., RAMME p. 9 Berlin ent. Zeitschr. **56**.—*S. kittaryi* Unterschiede von *octofasciatus* (Russ.), IKONNIKOV Rev. russ. ent. **11** p. 359.

Stauroderus jacobsoni **sp. n.** Semiretshje, IKONNIKOV Rev. russ. ent. **11** p. 351.

Stenobothrus kirgisorum **sp. n.** Semiretshje, IKONNIKOV p. 348 T.c.—*S. formosanus* **sp. n.** Formosa, MATSUMURA p. 130 Mem. Soc. ent. Belgique **18.**

Stethophyma tsherskii **sp. n.** Ussuri-Land, IKONNIKOV Ann. mus. zool. **16** p. 249.

Tapesia acuta **sp. n.** Congo, BOLIVAR p. 300 Ann. Soc. ent. Belgique **55.**

Tettigidea annulipes p. 127, *gracilicornis* p. 128, *chapadensis* p. 130, *kancocki* p. 131, *australis* p. 132, *intermedia* p. 132, *castalis* p. 133, *subaptera* p. 134, *arcuata* p. 135, *corragata* p. 136, **spp. n.**, Brazil, BRUNER Ann. Carnegie Mus. **7.** —*T. australis*, CAUDELL p. 156 Canad. Ent. **43.**

Thrinchus campanulatus distinkte Art, IKONNIKOV Rev. russ. ent. **11** p. 359.

Tmethis stummeri = *muricatus* var. *heptapotamica*, IKONNIKOV Rev. russ. ent. **11** p. 360.

Tropidiopsis **gen. n.** for *Tylotropidius haasi*, BOLIVAR p. 305 Ann. Soc. ent. Belgique **55.**

Tryxalis nasuta, Dichogamie (Russ.), KORSAKOV Naturfreund St. Peterburg **6** p. 90.

APTERA s.l.

Zur Apterygotenfauna Norwegens, LINNANIEMI Bergens Mus. Aarb. **1911** No. 1.

In 1907 a paper by von OLFERS was recorded as follows:—

"**Olfers**, E. W. M. von. Die „Ur-Insecten". (Thysanura und Collembola im Bernstein.) Königsberg Schr. physik. Ges. **48** 1907 (1–40 mit 25 Taf.). **2070**"

No new genera or species were however mentioned as included in the paper. The German Bureau has now forwarded for inclusion in this Issue a list of new genera and species contained in the paper, together with the following explanation:—

"Die Arbeit ist aufgenommenen in *Paläontol., Jg.* 1908 und *Zool.*, 1907, aber ohne neue species. Diese sind als solche weder vom Verf. bezeichnet, noch ist sonst aus der Arbeit ersichtlich, dass sie neu sind. Ich habe sämtliche Namen ausgezogen, die mit der Bezeichnung „v. Olf." in der Arbeit versehen waren. Die Angabe, dass es sich um Neubenennungea handelt, rührt her von F. Poche im Arch. f. Naturgesch., Berlin, Bd 77, I, suppl. H 4, 1912.— Bedauerlich ist, dass (durch die Schuld des Deutschen Bureaus) die Bezeichnung der *Geologischen Schicht* im Bande Paläontologie ganz falsch ist, nämlich 90. 95 statt **85.** Es handelt sich, wie der Titel sagt, um *Bernstein*-Insekten."

THYSANURA s.l.

Ueber Felsenspringer, Machiloidea. 5. Aufsatz: Die schuppenlosen Entwicklungsstufen und die Orthomorphose, VERHOEFF Zool. Anz. Leipzig **38** 1911 (524–263).

Allopsontus gen. n. *Machilidae, annandalei* **sp. n.** Indomalesia, SILVESTRI pp. 88–95 Boll. Lab. Portici **5.**

Assmuthia escherichii **sp. n.** Ceylon, in Nestern von *Termes*, SILVESTRI p. 406 Zool. Jahrb. Syst. **30.**

Atelura jacobsoni **sp. n.** in nidis *Termes malayanus* Java, SILVESTRI Boll. Lab. Zool. Portici **5** p. 62 2 figs.

Dilta **nom. n.** für *Teutonia* Verh., STRAND Entom. Ztg. Wien **30** p. 77.

Evalljapyx **gen. n.**, *sonoranus, propinquus, diversipleura, brevipalpus, furciger, curyhebdomus, heterurus, dolichoderus*, Nord-America, **spp. n.**, SILVESTRI p. 72–87 Boll. Lab. Portici **5.**

Grassiella praestans Silv., mirmecofila, Messico, SILVESTRI Boll. Lab. Zool. Portici **5** p. 188.

Heterojapyx victoriae **sp. n.** Australia, SILVESTRI Boll. Lab. Zool. Portici **5** p. 97 2 figs.

Hypomachilodes **gen. n.**, *texanus* **sp. n.** N. America, SILVESTRI pp. 324–350 Boll. Lab. Portici **5.**

Japyx diversiunguis, alloiodontus, spp. n., Silvestri pp. 72–87 Boll. Lab. Portici 5.

Japyx solifugus, habits, Bondroit Ann. Soc. ent. Belgique 55 p. 8.

†*Klebsia* g. n., *horrens* sp. n. Bernstein Deutschl., Olfers p. 8 S.G.K. 48 1907.

Lepidospora ceylonica sp. n. Ceylon, Silvestri Boll. Lab. Zool. Portici 5 p. 95 figs.

†*Lepisma jubatum* sp. n. Bernstein Deutschl., Olfers p. 10 S.G.K. 48 1907.

†*Lepismina stricta* sp. n. Bernstein Deutschl., Olfers p. 10 S.G.K. 48 1907.

†*Lepismodion* g. n., *machilops* sp. n. Bernstein Deutschl., Olfers p. 10 S.G.K. 48 1907.

Machilellus gen. n. *Machilida, orientalis* sp. n. Indomalesia, Silvestri pp. 88–95 Boll. Lab. Portici 5.

Machilellus mexicanus sp. n. N. America, Silvestri pp. 324–350 Boll. Lab. Portici 5.

†*Machilis exilis, cineracea, cincta*, p. 12. *zebrina, chlamydophora, capito, signata*, p. 13, *boops, anableps*, p. 14, *exophthalmos, microphthalmos, palaemon*, p. 15, spp. n., Bernstein Deutschl., Olfers S.G.K. 48 1907.

Machilis lefroyi Indomalesia sp. n. Silvestri pp. 88–95 Boll. Lab. Portici 5.

Machilis strenua sp. n. N. America, Silvestri pp. 324–350 Boll. Lab. Portici 5.

†*Machilodes* g. n., *diastatica* sp. n. Bernstein Deutschl., Olfers p. 11 S.G.K. 48 1907.

Machiloides banksi sp. n. N. America, Silvestri pp. 324–350 Boll. Lab. Portici 5.

†*Machilopsis* g. n., *affinis* sp. n. Bernstein Deutschl., Olfers p. 10 S.G.K. 48 1907.

Macropsontus gen. n. *Machilidae, grassi* sp. n. Indomalesia, Silvestri pp. 88–95 Boll. Lab. Portici 5.

Meinertellus jacobsoni sp. n. Indomalesia, Silvestri pp. 88–95 Boll. Lab. Portici 5.

Mesomachilis gen. n., *nearticus* sp. n. N. America, Silvestri pp. 324–350 Boll. Lab. Portici 5.

†*Microja* g. n., *stylifera* sp. n. Bernstein Deutschl., Olfers p. 9 S.G.K. 48 1907.

Neomachilis gen. n., *halophilus* sp. n. N. America, Silvestri pp. 324–350 Boll. Lab. Portici 5.

†*Ocellia* g. n., *articulicornis* sp. n. Bernstein Deutschl., Olfers p. 7 S.G.K. 48 1907.

Parajapyx grassianus Nord America sp. n., Silvestri pp. 72–87 Boll. Lab. Portici 5.

Petrobius californicus, superior, submutans, persquamosus, calcaratus, Nord America, spp. n., Silvestri Boll. Lab. Portici 5 pp. 324–350.

COLLEMBOLA.

Entwicklung der Mundwerkzeuge von *Tomocerus plumbeus*, Hoffmann Zool. Anz. 37 pp. 353–377.

†*Achorutes latidens* sp. n. Bernstein Deutschl., Olfers p. 27 S.G.K. 48 1907.

†*Anoura stricta* sp. n. Bernstein Deutschl., Olfers p. 28 S.G.K. 48 1907.

Calistocyrtus gen. n., *indicus* sp. n. Bombay, Ritter Ann. Hofmus. Wien 24 pp. 379–398.

Campylothorax ceylonicus sp. n. Ceylon, Ritter Ann. Hofmus. Wien 24 pp. 379–398.

†*Catastylus* g. n., *calcaratus, crassus, crassicaudatus, nasicornis*, spp. n., Bernstein Deutschl., Olfers p. 24 S.G.K. 48 1907.

Corynephoria jacobsoni, Bau und Funktion der Dorsalkeule, Hoffmann Zool. Anz. 38 pp. 382–391.

†*Cuculliger* g. n., *longistylus* sp. n. Bernstein Deutschl., Olfers p. 24 S.G.K. 48 1907.

Cyphoderus dimorphus sp. n. ospite nel nido di *Trigona* Mexico, Silvestri Boll. Lab. Zool. Portici 5 p. 68 2 figs.

†*Degeeria robusta, jubata, signata, gracilis, obesa*, spp. n., Bernstein Deutschl., Olfers p. 20 S.G.K. 48 1907.

Drepanura punctata Bombay, *uzeli* Ceylon, **spp. n.**, RITTER Ann. Hofmus. Wien **24** pp. 379–398.

Entomobrya floralenta **sp. n.** Ceylon, RITTER Ann. Hofmus. Wien **24** pp. 379–398.

†*Isotoma acuticauda, falcicaudata, larvata, hirta*, **spp. n.** Bernstein Deutschl., OLFERS pp. 25–26 S.G.K. **48** 1907.

Lepidocyrtus caeruleus **sp. n.** Ceylon, RITTER Ann. Hofmus. Wien **24** pp. 379–398.

†*Lipura longipes* **sp. n.** Bernstein Deutschl., OLFERS p. 26 S.G.K. **48** 1907.

Neanura dubiosa **sp. n.** Ceylon, RITTER Ann. Hofmus. Wien **24** pp. 379–398.

†*Omophora* **g. n.**, *tricuspidata* **sp. n.** Bernstein Deutschl., OLFERS p. 21 S.G.K. **48** 1907.

Oncopodura crassicornis **sp. n.** England, SHOEBOTHAM p. 34 pl. iii Ann. Nat. Hist. **8.**

†*Orchesella concolor* **sp. n.** Bernstein Deutschl., OLFERS p. 21 S.G.K. **48** 1907.

†*Palpigerida* **g. n.**, *longicollis, crassula*, **spp. n.**, Bernstein Deutschl., OLFERS p. 19 S.G.K. **48** 1907.

†*Palpigerina* **g. n.**, *sminthuroides, elongata*, **spp. n.**, Bernstein Deutschl., OLFERS p. 19 S.G.K. **48** 1907.

†*Papirius verrucosus, brevicaudatus*, **spp. n.**, Bernstein Deutschl., OLFERS p. 30 S.G.K. **48** 1907.

Peliolepisma **gen. n.**, *calva* **sp. n.** Ceylon. RITTER Ann. Hofmus. Wien **24** pp. 379–398.

†*Polystylus* **g. n.**, *quinquecaudatus* **sp. n.** Bernstein Deutschl., OLFERS p. 24 S.G.K. **43** 1907.

Proisotoma ultonica **sp. n.** Antrim, CARPENTER p. 83 Irish Nat. **20.**

Pseudosira bidenticulata **sp. n.** Ceylon, RITTER Ann. Hofmus. Wien **24** pp. 379–398.

Pterikrypta **gen. n.**, *sulcata fasciata*, Ceylon, **spp. n.**, RITTER Ann. Hofmus. Wien **24** pp. 379–398.

†*Seira pachyscelis* **sp. n.** Bernstein Deutschl., OLFERS p. 21 S.G.K. **48** 1907.

†*Smithurus longipes, gracillimus, crassicaudatus, cristatus, longidens*, **spp. n.**, Bernstein Deutschl., OLFERS p. 29 S.G.K. **48** 1907.

Sminthurus parvulus, serratus, Ceylon, **spp. n.**, RITTER Ann. Hofmus. Wien **24** pp. 379–398.

†*Stylonotus* **g. n.**, *lanuginosus* **sp. n.** Bernstein Deutschl., OLFERS p. 20 S.G.K. **48** 1907.

†*Tricoura* **g. n.**, *cornuta* **sp. n.** Bernstein Deutschl., OLFERS p. 26 S.G.K. **48** 1907.

†*Xenylla inermis* **sp. n.** Bernstein Deutschl., OLFERS p. 28 S.G.K. **48** 1907.

Xenylla pseudobrevicauda **sp. n.** Ceylon, RITTER Ann. Hofmus. Wien **24** pp. 379–398.

PROTURA.

Ueber die systematische Stellung der *Protura* Silvestri, RIMSKY-KORSAKOW Zool. Anz. **37** pp. 164–168.

Protura; Organisation, systematische Stellung, Vorkommen in Schweden, TRÄGÅRDH Entomol. Tidskr. **32** pp. 189–200.

Protura; Verbreitung, Bewegungen, Nahrung RIMSKIJ-KORSAKOV Rev. russ. ent. **11** pp. 411–417 ff. 1–3.

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Tracheenverlauf bei Eosentomiden, PRELL Zool. Anz. **38** pp. 185–193.

Acrentomon doderoi, Entwicklung, Bau, RIMSKIJ-KORSAKOV Rev. russ. ent. **11** pp. 411–417 f. 1.

Eosentomon silvestrii **sp. n.** St. Petersburg, Elsass, München, Innsbruck, Anatomie, Entwicklung (Russ. + deutsch. Rés.), RIMSKY-KORSAKOW St. Peterburg Trav. Soc. nat. C.r. séances **42** pp. 17–37 96–98 8 figs.—*E. silvestrii* Entwicklung, Bau, RIMSKIJ-KORSAKOV Rev. russ. ent. **11** pp. 411–417 ff. 2–3.

ERRATUM.

P. 241—delete altogether the first entry "*Lachnodiella*" etc.; it is correctly placed elsewhere.

XIII. PROCHORDATA

incl. ENTEROPNEUSTA

ARRANGED BY

I. B. J. SOLLAS

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Bjerkan, P. Ascidien. Report of the second Norwegian Arctic Expedition in the "Fram" 1898–1902 **3** (1–12) 1911. [Printed 1908.]

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Brément, Ernest. Sur quelques cormus, l'*Holozoa clavata* Sars, provenant de l'expédition antarctique française (1908). Bul. Muséum Paris **1911** (34–37) av. fig. **3**

Brément, Ernest. Note préliminaire sur la situation que peut affecter chez quelques Ascidies mérosomes le genre de Copépode *Enterocola*. Bul. Muséum Paris **1911** (69–75) av. fig. **4**

Chatton, Édouard et **Brément,** Ernest. Sur un ascidicole nouveau du genre *Ophioscides* Hesse, *Ophioscides abdominalis*, parasite des Aplidiens. Paris Bul. soc. zool. **36** 1911 (29–33) av. fig. **5**

Daumézon, G. Note sur la biologie d'une Ascidie conservée à Digne (Basses-Alpes), en milieu artificiel. Paris C. R. soc. biol. **70** 1911 (721–723). **6**

Daumézon, G. Sur la régénération d'une ascidie composée conservée en captivité. Paris C. R. soc. biol. **70** 1911 (812–814). **7**

Delsman, H. C. Beiträge zur Entwicklungsgeschichte von *Oikopleura Dioica*. Helder Verh. Onderz. zee **3** 1911 2 (1–24) 3 Taf. **7a**

Derjugin, K. Zur Kenntnis der Fauna des Kola-Fjords (Russian; résumé German). St. Peterburg Trav. soc. nat. Comptes Rendus **42** (38–62) and (99–100). **8**

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Hartmeyer, R. Revision von Heller's Ascidien aus der Adria. Berlin Sitz-Ber. Ges. natf. Freunde **1911** (302–311). **11**

Hartmeyer, R. Die geographische Verbreitung der Ascidien. Verh. D. zool. Ges. Leipzig **20 21** (1910/11) 1911 (95–109). **12**

Hartmeyer, R. Zur Verbreitung nordischer Ascidien. Berlin SitzB. naturf. Freunde 1911 (439–440). **13**

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(2) Cephalochordata (vacant).

(3) Enteropneusta (vacant)

XIV. VERTEBRATA

(GENERAL)

i.e., complementary to Mammalia, Aves, Reptilia, and Pisces

ARRANGED BY

D. SHARP

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Oxydoras (*Rhinodoras*) *huberi* **sp. n.** R. Tocantins, STEINDACHNER Anz. Akad. Wien 1911 p. 324.

Glanidium ribeiroi **sp. n.** R. Iguassu, HASEMAN Ann. Carnegie Mus. **7** p. 381 pl. lxxviii.

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Ageneiosus parnaguensis **sp. n.** Piauhy, Brazil, STEINDACHNER Ann. Mus. Wien **24** 1910 p. 399 fig.—*A. davalla* p. 401 pl. x, *vittatus* p. 402 pl. ix. *brevifilis* p. 403 pl. viii, descr. and fig., STEINDACHNER t.c.

(N-9186 *b*)

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Auchenoglanis ngamensis p. 371 f. 287, *altipinnis* p. 372 f. 288, **spp. n.**, Africa, BOULENGER Cat. Afr. Fish. **2**.—*A. ngamensis* also in Trans. Zool. Soc. **18** p. 405 fig.—*A. ituriі* **sp. n.** R. Ituri, Congo, STEINDACHNER Anz. Akad. Wien **1911** p. 530, and Sitzungsb. Akad. Wien **120** p. 1185.

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Amphilius krefftii **sp. n.** E. Africa, BOULENGER Cat. Afr. Fish. **2** p. 356 f. 276.

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Clariallabes longicaudatus **sp. n.** W. Africa, PAPPENHEIM Mitt. zool. Mus. Berlin **5** p. 519.

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Chiloglanis neumanni **sp. n.** Masailand, Boulenger Cat. Afr. Fish. **2** p. 481 f. 359.

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Typhlobagrus kronei is a blind form of *Pimelodella lateristriga*, Haseman t.c. p. 323.

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Parasudis **gen. n.** (type *Chlorophthalmus truculentus*, Goode and Bean), REGAN t.c. p. 127.

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ARRANGED BY

C. L. BOULENGER

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The pigeons of Australia figured:—*Leucotreron alligator, Ptilinopus regina, P. ewingii, P. superbus, Megaloprepia magnifica, M. assimilis, Myristicivora spilorrhoa, Lopholaimus antarcticus, Columba norfolciensis, Macropygia phasianella, Geopelia humeralis, G. placida, G. cuneata, Chalcophaps chrysochlora, Phaps chalcoptera, P. elegans, Histriophaps histrionica, Petrophassa albipennis, P. rufipennis, Geophaps scripta, G. smithi, Lophophaps ferruginea, L. plumifera, L. leucogaster, Ocyphaps lophotis, Leucosarcia melanoleuca,* MATHEWS Birds Australia **1** pts. 2–3 pls. xx–xlv.

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[*Sylphitreron*] *Ptilopus gestroi* and *P. zonurus*, remarks on plumage, OGILVIE-GRANT Bull. B. O. C. **27** p. 84.

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Columba leuconota, figured with avicultural notes, NEWMAN Avicult. Mag. **2** pp. 173 204.—*C. palumbus*, contents of crop, PETHYBRIDGE Irish Nat. **20** p. 54.—*C. albinucha* **sp. n.** Ft. Beni, near Lake Albert Edward, SASSI Ornith. Monatsb. **19** p. 68.—*C. stalkeri* **sp. n.** Ceram, OGILVIE-GRANT Bull. B. O. C. **27** p. 104.

Ectopistes migratorius, old records, MACKAY Auk **28** p. 261; WRIGHT *t.c.* pp. 346 427; records from Iowa, ALLBEE Auk **28** p. 261; in Missouri, *t.c.* p. 259; in Pennsylvania, DILLIN Cassinia **14** p. 33; in Maine, MEAD J. Maine Ornith. Soc. **12** p. 1; Peter Kalm's observations, Auk **28** p. 53; Thoreau's notes, *t.c.* p. 111; a further search for, HODGE Auk **28** p. 49; only one bird left, DEANE *t.c.* p. 262; an example killed in France in 1840, BUREAU Bul. soc. acclim. **58** p. 353.

Zenaidura macroura marginella (Woodhouse) is the name for the pallid western form of the mourning dove, MEARNS Auk **28** p. 489.

Melopelia asiatica trudeaui (Audubon) is the correct name for the white-winged dove of the United States, MEARNS Auk **28** p. 489.

[*Streptopelia*] *Turtur semitorquatus*, on the note, SCHUSTER Ornith. Monatsb. **19** p. 193.

Henicophaps foersteri, figured from the type from New Britain, HARTERT Nov. Zool. **18** p. 168 pl. i.

Columbina, type species is *C. griscola* Spix, ALLEN Science N.Y. **33** p. 336.

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The Ralline birds of Australia figured:—*Rallus pectoralis, Eulabornis australis, E. castaneoventris, E. robinsoni, Crex crex, Porzana fluminea, P. palustris, P. immaculata, P. leucophrys, Tribonyx mortieri, T. ventralis, Gallinula tenebrosa, G. ruficrissa, Porphyrio bellus, P. neomelanotus, Fulica australis,* MATHEWS Birds Australia **1** pts. 4–5 pls. xlvi–lxi.

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Sarothrura antonii **sp. n.** D. Ost-Afr., MADARASZ Ornith. Monatsb. **19** p. 186.

Ortygops macmillani **sp. n.** Kaffa, Abyssinia, BANNERMAN Bull. B. O. C. **29** p. 38.

Gallinula galeata, nesting at Branchport N.Y., BURTCH Auk **28** p. 108.—*G. galeata cerceris* **subsp. n.** St. Lucia, West Indies, BANGS Proc. N. Engl. Zool. Cl. **4** p. 81.

Porphyrio poliocephalus seistanicus subsp. n. Seistan, Persia, SARUDNY J. Ornith. **59** p. 240.—*P. melanotus*, the claw of the pollex in the young figured, SETH-SMITH P. Z. S. 1911 p. 985 fig. 200.

Notornis hochstetteri, note on specimen in the Dresden Museum, MEYER Zoologist **15** p. 36.

Fulica sp. in Tristan da Cunha, W. SCLATER Bull. B. O. C. **27** p. 94.

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The Grebes of Australia figured :—*Podiceps novae-hollandiae*, *P. poliocephalus*, *P. christiani*, MATHEWS Birds Australia **1** pt. 5 pls. lxii–lxiv.

Some account of the embryology and development of the *Colymbidae* (i.e., *Podicipedidae*), ROSENBERG Zs. Wiss. Zool. **97** p. 199.

[*Proctopus*] *Colymbus nigricollis* and [*Dytes*] *C. auritus*, breeding ranges separated by the River Niemen, ROSENBERG Zs. Wiss. Zool. **97** p. 216.

[*Lophacthyia*] *Podiceps cristatus*, habits in the Midlands, APLIN Zoologist **15** p. 9.—*P. grisegena major* in Iceland (Danish), SCHIOLER Ornith. Tids. **5** p. 147 1 fig.—*Colymbus holboelli*, in Kansas, EVANS Auk **28** p. 107.

†*Aechmophorus lucasi* sp. n. Pleistocene beds of Oregon, U.S.A., MILLER Univ. Cal. Pub. Geol. **6** p. 83.

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Colymbus arcticus, photographed on the nest, PIKE Brit. Birds **5** p. 178.

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The Penguins of Australia figured :—*Penguinus chrysocome*, *Eudyptula novaehollandiae*, *E. iredalei*, MATHEWS Birds Australia **1** pt. 5 pls. lxv–lxvii.

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[*Oceanodroma*] *Procellaria leucorrhoa*, occurs in Norway (Norweg.), GRIEG Bergen Naturen **35** p. 406.—*O. socorroensis* and *O. melania*, in Lower California, OSBURN Condor **13** p. 31.—*O. monorhis*, from Java seas, OORT Leiden Notes Mus. Jentink **33** p. 111.

Puffinus chlororhynchus, taken off the coast of Luzon, first record for the Philippines, MCGREGOR Philippine J. Sci. **6** p. 183.—*P. obscurus atlanticus* subsp. n. Porto Santo, Madeira, ROTHSCHILD & HARTERT Bull. B. O. C. **27** p. 43.—*P. intermedius* sp. n. Port Stephens, N.S. Wales, HULL Emu **11** p. 98.

Œstrelata aterrima, in the Gulf of Aden, OORT Leiden Notes Mus. Jentink **33** p. 112.—*Œ. leucoptera*, nest and egg described, HULL Emu **10** pp. 252 253.—*Œ. montana* sp. n. Lord Howe Island, HULL Proc. Linn. Soc. N.S.W. **1910** p. 785 pls. xxiv–xxv.

Fulmarus glacialis, breeding in co. Mayo, first record for Ireland, USSHER & BARRINGTON Irish Nat. **20** p. 149.

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†*Plautus impennis*, record of sales of birds and eggs, 1806–1910, PARKIN Hastings and E. Sussex Nat. **1** (extra number) 1911 36 pp. ; on the mounted example and egg in the Norwich Museum, GURNEY Norfolk Trans. Nat. Soc. **9** p. 214 2 pls. ; an unrecorded egg at Dinard, France, BIDWELL Ibis **1911** p. 184.

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[*Cepphus*] *Uria grylle*, im Gouv. Pleskau (Russ.), SARUDNY Mess. ornith. Moskva **2** p. 21.

Synthliborhamphus antiquus Sachalin, Merkmale (Russ.), BUTURLIN Naša ochota **5** 16 p. 7.

Simorhynchus cristatellus, bei Sachalin, Merkmale (Russ.), BUTURLIN Naša ochota **5** 16 p. 8.

Lunda cirrhata, Nordküste des Ochotskischen Meeres, Merkmale (Russ.), Buturlin Naša ochota **5** 16 p. 7.

Fratercula arctica, on the Croatian Coast, Barac Ornith. Jahrb. **22** p. 223. —*F. glacialis* Ainowsk-Inseln, *F. arctica* Nisten, Schädel (Russ.), Maurodiadi Varšava Izv. Univ. **1911** 3 pp. 5–8 f. 1.

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Sterna fluviatilis, on the red variety of the eggs, Bunyard Bull. B. O. C. **29** p. 45; laying blue eggs, Borrer & others Brit. Birds **5** pp. 169 196.— *S. macrura*, forms in the Spitzbergen waters, Zedlitz J. Ornith. **59** p. 164; erste Stadien der Embryonalentwicklung (Russ.), Mitrofanov Varšava Rab. zoot. labor. Univ. **39** p. 1.—*S. hirundo*, roosting habits, Bachmann Ornith. Monatschr. Magdeburg **36** p. 356.—*S. cantiaca*, Heckvogel in Schweden, Rosenius Fauna and Flora **6** p. 190.—*S. fuliginosa*, captured near Brighton, England, Griffith Bull. B. O. C. **27** p. 95.—*S. melanauchen*, *S. borcotis*, *S. fuscata*, breeding in the Philippines, Worcester Philippine J. Sci. **6** p. 168 pls. iv–v.

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[*Megalestris*] *Stercorarius catarrhactes*, occurs in Norway (Norweg.), Grieg Bergen Naturen **35** p. 405.

Stercorarius pomarinus, capturing a Phalarope, Tuttle Auk **28** p. 482.— *S. crepidatus*, field notes from Shetland, Wilson Glasgow Trans. Nat. Hist. Soc. **8** p. 235.

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Thinocorys pallidus **sp. n.** Ecuador, Salvadori & Festa Torino Boll. Mus. **25** No. 631.

[*Arenaria*] *Strepsilas interpres*, zur Naturgeschichte, Christoleit Mitt. Vogelwelt Nürnberg **11** p. 40.

Haematopus osculans, Sachalin Beschreibung (Russ.), Buturlin Naša ochota **5** 17 p. 4.

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Numenius tenuirostris, killed in Kent, a new British bird, Nicoll Brit. Birds **5** p. 124.

Limosa lapponica, note on eggs, Bunyard Bull. B. O. C. **29** p. 44.— *L. lapponica novae-zealandiae*, Sachalin, Merkmale (Russ.), Buturlin Naša ochota **5** 16 p. 10.—*L. limosa*, field notes in Bavaria, Merk-Buchberg Zool. Beob. **52** p. 239; in south Ireland, Ussher Irish Nat. **20** pp. 200 220; range extended south to Natal, Chubb J. S. A. Orn. Union **7** p. 80.

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[*Tringoides*] *Totanus macularius*, occurrence in Yorkshire, GREAVES Naturalist 1911 p. 160.—*Actitis macularia*, coloured plate, JOB Bird Lore **13** p. 221.

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Ereunetes pusillus, coloured plate, JOB Bird Lore **13** p. 269.

Calidris arenaria, on the size of the testes in the summer birds of the British Coasts, PATTEN Rep. Brit. Ass. **1910** p. 637.

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[*Limonites*] *Tringa subminuta*, im Gouv. Tobolsk (Russ.), UŠAKOV Mess. ornith. Moskva **2** p. 116.—*T. ruficollis*, Sachalin, Kamtschatka, Merkmale (Russ.), BUTURLIN Naša ochota **5** 16 p. 8.—*Pisobia minutilla*, coloured plate, JOB Bird Lore **13** p. 269.

[*Heteropygia*] *Tringa maculata*, in Iceland, SCHIØLER Ornith. Tids. **5** p. 147.

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Balaeniceps rex, on an individual presented to the Frankfurt Museum by R. v. Goldschmidt-Rothschild, Cnyrim Ber. Senckenb. Ges. **42** p. 1; occurs in Katanga, Belgian Congo, Hellmayr Ibis **1911** p. 574; represented on the ancient Egyptian monuments, Boussac Rev. Fr. d'Ornith. **1** p. 309.

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Nycticorax nycticorax, shot near Whitby, Stephenson Naturalist London **1911** p. 425.—*N. griseus*, Vorkommen in Prov. Sachsen, Schlüter Falco **7** p. 35.

Butorides rogersi sp. n. N.W. Australia, Mathews Bull. B. O. C. **27** p. 101.

Ardeola bacchus, im Ussuri-Gebiet, Beschreibung, Buturlin Mess. ornith. **2** p. 281.

Botaurus stellaris, again nesting in Norfolk, Turner Brit. Birds **5** p. 90.—*B. lentiginosus*, the nuptial plumes and their display, Brewster Auk **28** pp. 90 256, also Strong *ibid.* p. 367.

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Phoenicopterus roseus, at the mouth of the Rhone, Chapel Rev. Fr. d'Ornith. **1** p. 246; Verbreitung im Gebiet Akmolinsk, Irrflug durch Sibirien (Russ.), Johansen Mess. ornith. **2** p. 332.—*P. antiquorum*, shot in Gotland, Sweden, Johansson Fauna and Flora **5** p. 185 fig.

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Cygnus musicus, visiting regularly every winter the river Eden in Cumberland, Hind Ibis **1911** p. 546 text fig. 15.—*C. bewicki* and *C. musicus* taken in India, Baker Bombay J. Nat. Hist. Soc. **21** p. 273.—*C. bewicki jankowskii* on its eggs, Jourdain Bull. B.O.C. **27** p. 58.—*C. olor* on the Mekran coast of S. Persia, Steinhoff Bombay J. Nat. Hist. Soc. **20** p. 1155.

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Cereopsis novae-hollandiae photographed on the nest, M'Gowan Emu **11** p. 42 pl. v.

Chen caerulescens, its winter range, Brown Auk **28** p. 272.

Anser cinereus photographed on the nest, PIKE Bt. Birds **5** p. 178.—*A. erythropus* in Kurland, STEMPEL N. Balt. Waidm.-blt. Riga **7** p. 87; on the Kabul river, N.W. India, WIGNALL Bombay J. Nat. Hist. Soc. **20** p. 855.

Philacte canagica, note on nest and eggs, MUNT Bull. B. O. C. **27** p. 48.

[*Chloëphaga*] *Bernicla melanoptera*, habits in captivity, BLAAUW Avicult. Mag. **1911** p. 141.

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Polionetta albigularis leucoparæus **subsp. n.** Andaman Is., FLEMING Proc. Biol. Soc. **24** p. 215.

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Nettion crecca, ringed in Denmark, shot in Scotland, BARTHOLOMEW Glasgow Nat. **3** p. 71; second record for Maine, U.S.A., NORTON Auk **28** p. 255.

Poecilonetta erythrorhyncha breeding in aptivity, SPRUYT Bul. soc. acclim. **57** p. 406.

Netta rufina, observés dans le nord-ouest de la France, BUREAU Rev. Fr. d'Orn. **1** p. 244.

[*Aythya*] *Fuligula nyroca*, in Kreis Buguruslan (Russ.), KARAMSIN Mess. ornith. Moskva **2** p. 20.

Clangula c. americana, courtship notes, BREWSTER Condor **13** p. 22.

Somateria mollissima, Lebensgewohnheiten und Nisten auf den Solowetzki-Inseln (Russ.), TARNANI Ochotn. vëst. Moskva **11** p. 114 Textf. 1–2.

[*Mergus*] *Mergellus albellus*, coloration différente, VAUCHER Bul. Soc. Zool. Genève **1** p. 121.

[*Merganser*] *Mergus merganser* Brutvogel in Bayern, BESSERER Bayr. Forstztg Nürnberg **18** No. 8 p. 1.—*M. americanus*, first record for S. Carolina, CHISOLM Auk **28** p. 254.—*M. squamatus*, description of a summer specimen from the lower Amur river, BUTURLIN Ibis **1911** p. 182; bei Chabarowsk, Amur Prov. (Russ.), BUTURLIN Mess. ornith. Moskva **2** p. 113.—*M. serrator*, courtship and migrations, TOWNSEND Auk **28** p. 341.

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R. LYDEKKER, F.R.S.

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Anomalurus imperator sp. n. Gold Coast, DOLLMAN Ann. Mag. Nat. Hist. ser. 8 8 p. 257.

Castor (†) *californicus* sp. n. Tertiary California, KELLOGG Univ. Cal. Bull. Dept. Geol. 6 p. 401.

Dipodidæ (*Jaculidæ*), Lebensweise in Russland, VDOVIN Jugo-vost. choz. 7 10 p. 17.

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Acomys cahirinus, young, BONHOTE Proc. Zool. Soc. 1911 p. 5; *hystrella*, Uganda, HELLER Smithson. Misc. Collect. 50 No. 17 p. 13; *chudeaui*, Mauritania, KOLLMANN Bul. Muséum Paris 1911 p. 402; *kempi* p. 125, *percivali* p. 126, *pulchellus*, *ablutus*, B. E. A., DOLLMAN Ann. Mag. Nat. Hist. ser. 8 8; spp. n.

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Crieetomys gambianus luteus N.E. of Kenia p. 124, *g. oliviae* N. Nigeria p. 258, DOLLMAN Ann. Mag. Nat. Hist. ser. 8 8 subspp. n.

Dasymys orthos Uganda p. 13, *savannus* B. E. A. p. 14, spp. n., HELLER Smithson. Misc. Collect. 50 No. 17.

Dendromus spectabilis p. 3, *lineatus* p. 4, spp. n., Lado, HELLER Smithson. Misc. Collect. 50 No. 17.

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Fiber overrides *Ondatra*, Washington Proc. Biol. Soc. 24 p. 13, synopsis of species N. Amer. Fauna, No. 32 (†)*nebracensis* Nebraska p. 32, (†)*oregonus* Oregon p. 33, Pleistocene, spp. n., HOLLISTER.

Gerbillus (*Tatera*) *vicinus muansæ* subsp. n. Muansa, G. E. A., MATSCHIE SitzBer. Ges. natf. Freunde 1911 p. 333.

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Lorentzimys g. n. for *L. nouhuysii* sp. n. Dutch New Guinea, JENTINK No. 214 p. 174.

Microtus coronarius Alaska, SWARTH Univ. Cal. Bull. Dept. Zool. 7 p. 131; (*Phaiomys*) *waltoni petulans* W. Himalaya, WROUGHTON Bombay J. Nat. Hist. Soc. 20 p. 931; *pullus* China, MILLER Washington Proc. Biol. Soc. 24 p. 53; (*Lagurus*) *intermedius* Nevada, TAYLOR Univ. Cal. Bull. Dept. Zool. 7 p. 253; *calamorum superus* Shen-si, Proc. Zool. Soc. 1911 p. 691, and Abs. P. Z. S. 1911 p. 27, (*Eothenomys*) *melanogaster colurnus* Fokien 7 p. 209, *pelliceus* Siberia p. 383, *oniscus* Kan-su 8 p. 723, *agrestis mongol* p. 759, N.W. Mongolia, Ann. Mag. Nat. Hist. ser. 8, (*Eothenomys*) *melanogaster eleusis* Yun-nan (*Caryomys*) *alcinous* Abs. Proc. Zool. Soc. 1911 p. 50, THOMAS; spp. et subspp. n.

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MILLER Amer. Nat. **45** p. 623; *surifer grandis*, *s. flavigrandis*, Trengganu Archipelago, KLOSS Ann. Mag. Nat. Hist. ser. 8 **7** p. 119; *wagneri rotans*, DROOGLEVER-FORTUYN No. 112 p. 169; *wamae* B. E. A., *musculoides emesi* Uganda, *wamae* B. E. A. p. 5, *tenellus acholi* Lado p. 6, *gratus songarae* Kenia p. 7, *bellus gondokorae* Uganda, *b. enclavae* Lado, HELLER Smithson. Misc. Collect. **50** No. 17; *andrewsi* Buton I. Celebes, *boruensis* Boru I. Moluccas, ALLEN Bull. Amer. Mus. Nat. Hist. **30** p. 336; spp. et subspp. n.: *rattus*, variation, LAPICQUE & LEGENDRE Bul. Muséum Paris 1911 p. 396; *rattus rumpia* Rumpia I. p. 169, *surifer leonis* Singapore p. 170, *muelleri foederis* Perak p. 245, ROBINSON & KLOSS J. Fed. Malay States Mus. **4**; *doboensis* Dobo I. Aru Gp., BEAUFORT Abh. Senckenberg Ges. **34** p. 112; (*Epimys*) *xanthurus orientalis* Celebes, REVILLIOD Zool. Anz. **37** p. 513; (*E.*) *muansae* p. 340, *mantenfeli* p. 341, *microdon victoriae* p. 342, Muansa, G. E. A., MATSCHIE SitzBer. Ges. natf. Freunde 1911 spp. et subspp. n. (see also *Epimys*).

Myodes torquatus, remains alleged to be Portuguese = Norwegian, HARLÉ Com. Serv. Geol. Portugal **8** p. 22; *schisticolor* in Finland, ENWALD & LÖNNBOHM Medd. Soc. Fauna et Fl. Fenn. **37** p. 27.

Myospalax smithi p. 720, *rothschildi* p. 722, Kan-su, *baileyi* Sze-chuan p. 727, spp. n., THOMAS Ann. Mag. Mag. Nat. Hist. ser. 8 **8**.

Œcomys superans p. 250, *palmeri* p. 251, subspp. n., Ecuador, THOMAS Ann. Mag. Nat. Hist. ser. 8 **8**.

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Rhipidomys bovallii Brit. Guiana p. 114, *lucullus* Peru p. 114, spp. n., THOMAS Ann. Mag. Nat. Hist. ser. 8 **7**.

Rhombomys opimus alaschanicus subsp. n. Alaschan, MATSCHIE No. 311 p. 12.

Tatera hopkinsoni sp. n. Gambia, THOMAS Ann. Mag. Nat. Hist. ser. 8 **8** p. 375.

Taterillus nubilus Mt. Nyiro, *n. illustris* N. of Eguasso Nyiro B. E. A. sp. et subsp. n., DOLLMAN Ann. Mag. Nat. Hist. ser. 8 **8** p. 656.

Thamnomys buntingi Liberia, THOMAS **7** p. 381; *surdaster lutosus* Mt. Nyiro **8** p. 657, *kempi* Belgian Congo p. 658, DOLLMAN Ann. Mag. Nat. Hist. ser. 8 spp. et subsp. n.

Typomys g. n. for *Mus trivirgatus*, THOMAS Ann. Mag. Nat. Hist. ser. 8 **7** p. 382.

Uranomys ugandae sp. n. Uganda, HELLER Smithson. Misc. Collect. **50** No. 17 p. 12.

Uromys obiensis Obi I. p. 208, *naso* p. 386, *stalkeri calidior* p. 387, Dutch New Guinea, spp. et subsp. n., THOMAS Ann. Mag. Nat. Hist. ser. 8 **7**.

HYSTRICIDAE, GEOMYIDAE, HETEROMYIDAE.

Acanthion sumbawae sp. n. Sumbawa, SCHWARZ Ann. Mag. Nat. Hist. ser. 8 **7** p. 639.

Coendu prehensilis Kletterextremität, ZURKIRCH Arch. Natg. **76** p. 135.

Geomys bursarius in Kansas, SCHEFFER Kansas Agric. Coll. Bull. 1910 p. 197.

Heteromys, list distribution, etc., *temporalis* sp. n. Vera Cruz, Mexico, p. 26, GOLDMAN N. Amer. Fauna No. 34.

Hystrix hirsutirostris satunini Transkaspien p. 117, *h. blanfordi* Baluchistan p. 121, *h. mersinae* Taurus p. 122, *h. aharonii* p. 123, *h. schmitzi* p. 126, Palestine, subspp. n., MÜLLER SitzBer. Ges. natf. Freunde 1911.

Liomys, list distribution, etc., *irroratus pretiosus* San Louis Potosi p. 58, *guerrerensis* Guerrero Mexico p. 62, subsp. et sp. n., GOLDMAN N. Amer. Fauna No. 34.

Perognathus fasciatus litus subsp. n. Wyoming, CARY Washington Proc. Biol. Soc. **24** p. 61.

OCTODONTIDAE, CAVIIDAE.

Capromys pilorides relictus subsp. n. Cuba, ALLEN Bull. Mus. Harvard **54** p. 207.

Cavia cobaya, Entwicklung der Lungenarterien, FEDOROFF St. Peterburg Izv. voen.-med. Akad. **22** p. 26; cerebral cortex, ABEL Edinburgh Proc. Soc. **31** p. 397; Kernknospung in Plattenepithel, DITLEVSEN Anat. Anz. **38** p. 208; *porcellus venezuelae* subsp. n. Venezuela, ALLEN Bull. Amer. Mus. Nat. Hist. **30** p. 250.

Loucheres carrikeri sp. n. Venezuela, ALLEN Bull. Amer. Mus. Nat. Hist. **30** p. 251.

Proechimys iheringi p. 252, Sao Sebastião I., Brazil, *gularis* p. 253, *semispinosus calidior* p. 254, Ecuador, THOMAS Ann. Mag. Nat. Hist. ser. 8 **8**; *steeri* N.W. Brazil, GOLDMAN Washington Proc. Biol. Soc. **24** p. 238 spp. et subspp. n.

LEPORIDAE, OCHOTONIDAE.

Borcolepus, g. n. for *Lepus groenlandicus*, BARRETT-HAMILTON Hist. Brit. Mamm. **2** p. 160.

Lepus crispii Somaliland p. 275, *cordeauxi* Arusiland p. 276, spp. n., BROCKMAN Ann. Mag. Nat. Hist. ser. 8 **8**; *cuniculus*, Primordialcranium, VOIT Anat. Hefte Wiesbaden Abt. I **38** p. 425; Opticusendigungen, LOEFF Anat. Anz. **40** p. 309; orbitalen Venen-Sinus, MARKOWSKI ibid. **38** p. 156; ordre d'apparition des diverses parties du système pileux, CHAINE Paris C. R. soc. biol. **70** p. 83.

Ochotona annectens China, MILLER Washington Proc. Biol. Soc. **24** p. 54; *syrinx*, Shen-si, Proc. Zool. Soc. 1911 p. 692 Abs. P. Z. S. 1911 p. 27, *roylei sinensis* Sze-chuan p. 728, (*Ogotona*) *pricei* p. 760, *daurica altaina* p. 761 N. W. Mongolia, *rufescens regina* Kopet Dagh, *r. vizier* Central Persia, p. 762, Ann. Mag. Nat. Hist. ser. 8 **8** THOMAS; spp. et subspp. n.

Romerolagus diazi (Diaz) replaces *nelsoni* Merriam, MILLER Washington Proc. Biol. Soc. **24** p. 228.

Sylvilagus floridanus hitchensi subsp. n. Smith's I., Virginia, MEARNS U. S. Nat. Mus. Proc. **39** p. 227.

VI.—UNGULATA.

Indian big game, FLETCHER No. 134; Himalayan big game, STEBBING, No. 227; Seistan big game, KENNION No. 473.

A.—Artiodactyla.

Magen der Wiederkäuer vornehmlich Traguliden, SCHMIDT Arch. Natg. **77** Bd I H. 2 p. 1 Reetz No. 402; Wiederkäuerplacentome, STRAHL Anat. Anz. **40** p. 257; cutaneous glands Ruminants, BRINKMANN No. 49; Entstehung der hörnertragenden Säugetiere, KOVALEVSKIJ Arch. veterin. nauk **41** p. 1176; Antelopes of Rufijitale, E. Africa, DE BEAUX Zool. Anz. **38** p. 575; Antelopes living without water, BROCKMAN Field **118** p. 1177; callosities Camel and Giraffe, SHATTOCK Proc. R. Soc. Medicine July 1911.

BOVIDAE.

Bos taurus and *americanus*, fertile hybrids, IVANOFF Biol. Centralbl. **31** p. 24 C. R. Soc. biol. **70** p. 584; *taurus*, Mechanismus der Extremität bei Tiefl.- und Höhenschlägen, BEHM No. 30; Lymphgefässe, BAUM Anat. Anz. **39** p. 166; Speciescharaktere bei Föten, KOHN Zool. Jahrb. Abt. f. Syst. **31** p. 613; colour-inheritance, LAUGHLIN Amer. Nat. **45** p. 705; skulls from Newstead and origin of British breeds, EWART Proc. Zool. Soc. 1911 p. 249; (†) *primigenius* Fund, FELIX Leipzig SitzBer. Ges. natf. Freunde **37** p. 35; Hornentwicklung, EWALD & LAURER Centralbl. Min. 1911 p. 684; *sylvestris* sp. n. Gt. Britain, MEEK & GRAY Archæologia Æliana ser. 3 **7** p. 102; (*urus*)† *minutus* sp. n. Diluvial Belgium, MALSBURG Cracovie Bull. Internat. Ac. Sci. 1911 p. 340; *primigenius* (?) in Buteshire, RITCHIE Trans. Buteshire Nat. Hist. **3** p. 67; *indicus*, horns, CABRERA Bol. Soc. espan. Hist. nat. 1911 p. 141; *bison*, present condition in America, HORNADAY No. 194; *bubalis* in Italy, STAZI Boll. Soc. Agric. ital. feb. e mai. 1910.

Boövis g. n. for *Ovibos moschatus* Blain, KOWARZIK Zool. Anz. **37** p. 107.

Budorcas bedfordi sp. n. Shen-si, THOMAS Proc. Zool. Soc. 1911 p. 637, and Abs. P. Z. S. 1911 p. 27.

Capra hircus, Horndrüse, SCHIETZEL No. 435; *sibirica wardi*, note, *s. filippii*, Lahul, CAMERANO Torino Atti Acc. Sci. **46** p. 199; *pyrenaica victoriae*, CABRERA Proc. Zool. Soc. 1911 p. 975; *falconeri* (†) *kiakhtensis* (errorim *suleman kiakhtensis*), Pleistocene, Transbaikalia, PAVLOW Trav. Soc. Imp. Russ. Geogr. Sect. d'Amour **13** p. 33 subspp. n.

Cephalophus weynsi and *ignifer*, notes, CHRISTY Proc. Zool. Soc. 1911 p. 672; *natalensis amaanus* Transvaal p. 278, *n. bradshawi* Nyasaland p. 279, subspp. n., WROUGHTON Ann. Mag. Nat. Hist. ser. 8 **8**.

Cobus vaughani, etc., SELOUS Field **118** p. 551 (see also *Kobus*).

Connochætes taurinus (or *johnstoni*) *rufijianus* subsp. n. Rufijitale, E. Africa, DE BEAUX Zool. Anz. **38** p. 579.

Gazella hayi Algeria, LYDEKKER Proc. Zool. Soc. 1911 p. 961; *rufifrons hasleri* N. Nigeria, POCOCK Abs. Proc. Zool. Soc. 1911 p. 47 sp. et subsp. n.; *hayi* = *fuscifrons*, LYDEKKER 1912.

†*Ilingoceros* and *Sphenophalus* see *Antilocapridae*.

Kobus ellipsiprymnus kondensis S. W. Kondeland p. 556, *c. lipuwa* Kondeland p. 560, *c. kulu* Kilwa p. 561, *penricei frommi* S. Ufipa p. 563, *p. munzneri* Mtanga (7° 22′ S. × 31° 5′ E.) p. 567, *unctuosa uwendensis* E. of Tanganyika p. 570, subspp. n., G. E. Africa, MATSCHIE Zool. Ergebn. Exped. Deutsch-Ostfrika (see also *Cobus*).

Madoqua piacentinii sp. n. Somaliland p. 981, other spp. figured pls. lv lvi, BROCKMAN Proc. Zool. Soc. 1911.

Oreotragus saltator porteusi subsp. n. N. Nigeria, LYDEKKER Proc. Zool. Soc. 1911 p. 960, and Abs. P. Z. S. 1911 p. 38.

Ovibos typified by *O. mackenzianus* Kow., lachrymal, KOWARZIK Zool. Anz. **37** p. 106; *moschatus* in Alaska, HORNADAY New York Zool. Soc. Bull. No. 45.

Ovis aries "unicorn" Nepalese Rams an artificial product, LYDEKKER Field **118** p. 1447; Episternum, ZIMMERMANN Allatt. Közlem. **10** p. 177; *orientalis* typified by *ophion*, *o. urmiana* raised to specific rank and to include *erskinei* and *isphahanica*, *laristanica* figured, NASONOV St. Peterburg Bull. Ac. Imp. Sci. 1911 p. 1267; *dalli* and *stonei* gradation in colour, SHELDON No. 459; *dalli*, asymmetrical skull, JACOBI Dresden Abh. u. Ber. K. Zool. u. Anthrop. Mus. **12** No. 4 p. 11; *canadensis gaillardi* Gila Mts., Arizona, MEARNS Mamm. U. S. Mexican Bound. Surv. **1** 1907 p. 240; *ammon* (†) *fossilis*, Pleistocene Transbaikalia, PAVLOW Trav. Soc. Imp. Russ. Geogr. Sect. d'Amour **13** p. 26; subspp. n.

Syncerus Hodgson 1847 for *Bos caffer* Sparrman, HOLLISTER Washington Proc. Biol. Soc. **24** p. 192.

Tragelaphus spekei, habits, HUGHES Field **118** p. 729; *buxtoni*, descript. and fig., LYDEKKER Proc. Zool. Soc. 1911 p. 348.

ANTILOCAPRIDAE, †MERYCOIDODONTIDAE.

†*Blastomeryx mollis* sp. n Tertiary Nevada, MERRIAM Univ. Cal. Bull. Dept. Geol. **6** p. 278.

†*Capromeryx minor* sp. n. Pleistocene California, TAYLOR t.c. p. 191.

†*Ilingoceros schizoceros* sp. n. Tertiary Nevada, MERRIAM op. cit. p. 292.

†*Merycodus nevadensis* sp. n. Tertiary Nevada, MERRIAM op. cit. p. 284.

†*Sphenophalos* transferred to *Antilocapridae*, MERRIAM op. cit. p. 292.

GIRAFFIDAE.

Indian Tertiary, PILGRIM Mem. Geol. Surv. India—Pal. Ind. new ser. 4 No. 1; callosities, SHATTOCK Proc. R. Soc. Medicine July 1911 p. 5.

Giraffa, osteology and taxonomy, East African, ROTHSCHILD & NEUVILLE Ann. sci. nat. zool. ser. 9 **13** p. 1; *camelopardalis*, breeding, FLOWER Cairo Sci. Journ. **5** p. 126; *c. wardi* from Mozambique, SEABRA Bull. Soc. Port. Sci. Nat. **5** p. 27; *reticulata nigricans*, B. E. A., *camelopardalis thornicrofti*, N. E. Rhodesia, subspp. n., LYDEKKER Nature **87** p. 484

†*Helladotherium duvernoyi*, Kreis Bender, Chomenko Kišinev Trd. Obšč. jest. **2** 1 1910 p. 3.

Ocapia johnstoni, Turin specimen, Camerano Torino Atti Acc. Sci. **46** p. 212.

Cervidae.

Alces machlis, Peat Thurgau, Switzerland, Bächler Mitt. Thur. Natf. Ges. **19** p. 83; Abnormitäten, Broch Trondhjem kgl. Vid. selsk. Skr. No. **8 1910**; *m. yakutskensis* subsp. n. W. Yakutsk, Millais Field **118** p. 113.

Capreolus melanotis sp. n. Kan-su, Miller Washington Proc. Biol. Soc. **24** p. 231.

Cervulus (†) *kendengensis* sp. n. Pleistocene Java, Stremme Centralbl. Min. 1911 p. 55 (See also *Muntiacus*.)

Cervus elaphus, prehistoric picture, Lankester Field **117** p. 929; Geweihwachstum, Rhumbler Zs. Forstw. Berlin **43** p. 295; *canadensis* in Wyoming, Preble U. S. Dep. Agric. Biol. Surv. Bull. No. 40, *c. asiaticus*, Lebensweise im Altai, Gorčakovskij Ochotn. věst. Moskva **11** 1911 p. 236; (*Axis*)† *löczyi* sp. n. Ungarn, Pannonische Stufe, Kadić No. 216 p. 21.

Moschus parvipes sp. n. Korea, Hollister Washington Proc. Biol. Soc. **24** p. 1.

Muntiacus rubidus sp. n. Borneo, Lyon U. S. Nation. Mus. Proc. **40** p. 73.

Odocoileus antisensis in N. W. Argentina, Darbene Buenos Aires An. Mus. Nac. Hist. Nat. ser. 3 **14** p. 293.

Rangifer tarandus Pflege, Bergström Fauna & Flora **6** p. 1, Knacklaut p. 83; prehistoric in Hardangervidden, Grieg Bergens Mus. Aarbok 1911 No. 5.

Tragulidae.

Tragulus sebucus, Pulu Sebuku I., Lyon U. S. Nation. Mus. Proc. **40** p. 64; *pretiellus parallelus* Rhio Linga Archipelago, Miller Washington Proc. Biol. Soc. **24** p. 165 sp. et subsp. n.

†B.—Extinct Families.

†*Catodontherium burgovianum* p. 864, *fallax* p. 874, spp. n., Eocaen Schweiz, Stehlin Abh. Schweiz. pal. Ges. **36**.

†*Dacrytherium priscum* sp. n. Eocaen Schweiz, Stehlin op. cit. p. 883.

†*Dichodon subtile* p. 1022, *rütimeyeri* p. 1035, spp. n., Stehlin op. cit.

†*Haplomeryx picteti* p. 1053, *egerkingensis* p. 1058, spp. n., Eocaen Schweiz, Stehlin op. cit.

†*Hyperdichobune spectabilis* sp. n. Eocaen Schweiz, Stehlin op. cit. p. 1099.

†*Leptotheridium* g. n. for *L. lugeoni* p. 912, *traguloides* p. 917, spp. n., Eocaen Schweiz, Stehlin op. cit.

†*Mixtotherium infans* sp. n. Eocaen Schweiz, Stehlin op. cit. p. 1117.

†*Pseudamphimeryx valdensis* sp. n. Eocaen Schweiz, Stehlin op. cit. p. 998.

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Aarsb. off. Foranst. Landb., Kristiania.—Aarsberetning angaaende de offentlige Foranstaltninger til Landbrugets Fremme. 1 Nor.

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Errata in Third Annual Issue.

Pt. 1, p. 233, No. 15911 and Pt. 3, p. 162, No. 543, add 136–139, 158 to the paging Pt. 3, p. 178, delete entries 944 and 949.

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