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THE
ZOOLOGICAL RECORD

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BEING

RECORDS OF ZOOLOGICAL LITERATURE

RELATING CHIEFLY TO THE YEAR

1905.

BY D. SHARP, R. LYDEKKER, R. BOWDLER SHARPE, IGERNA B. J. SOLLAS,
W. T. CALMAN, E. R. SYKES, E. A. SMITH, HELEN M. KEMP, F. SILVESTRI,
A. R. HIRST, MARGARET GRANT, CORA B. SANDERS, E. A. MINCHIN, AND
H. M. WOODCOCK.

EDITED (FOR THE ZOOLOGICAL SOCIETY OF LONDON) BY

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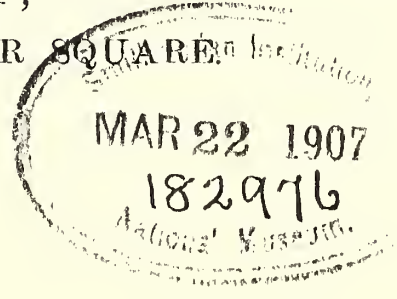
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The Editor thanks those Societies and individuals who have forwarded works and papers for the purposes of the Record, and suggests that Societies publishing Zoological Papers would much facilitate the work of the Recorders by forwarding a separate copy of each Zoological Memoir they publish to the Editor for the use of the Recorder. This is preferable to sending the entire volume, because each paper can go directly to the Recorder it concerns.

CAMBRIDGE:
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PREFACE.

THE appearance of the forty-second Volume of the Zoological Record has been a little delayed in consequence of the arrangements for provisional amalgamation with the Zoology Section of the International Catalogue of scientific literature.

The following passage, extracted from the Report of the Council of the Zoological Society for the year 1905 explains this amalgamation as follows:—

“The annual issues of the ‘Zoological Record’ have long been regarded as amongst the most important services to Zoological Science rendered by the Society. The magnitude of the task has been increasing annually, and in recent years the Zoology Volumes of the International Catalogue of scientific literature, issued by an International Bureau under the auspices of the Royal Society, have to a certain extent covered the same ground. The Council have arranged for a provisional amalgamation of the two undertakings for a period of five years, beginning with the literature for the year 1906, to be published in 1907, and hope that the union will lead to increased efficiency and economy. The ‘Zoological Record’ Committee will remain responsible for the scientific side of the work, and the conjoint Volumes will be issued with numbers and title pages in series with the existing ‘Zoological Record,’ so that, at the end of the period of five years, the Zoological Society may resume its independent control, if the amalgamation be not successful.”

In conformity with this announcement our Volume for 1906 will be a joint production of the International Catalogue organisation and of the Record Committee of the Council of the Zoological Society of London. It will be continued on the same general lines as the later Volumes of the Zoological Record, and will be made uniform with the Volumes of the International Catalogue by similar typography and other details.

The Editor of the Record anticipates that the hope of greater efficiency expressed by the Council in the paragraph quoted above will be realised.

The usefulness of the Record hitherto has been chiefly due to the amount of work carried out by the Recorders. Of late years their task has been too great. Under the new arrangement it should be considerably reduced. And as we may anticipate that the expert knowledge that has been placed at the disposal of the Record Committee will still be continued, we have good reason for sanguine anticipations.

It is intended that the Annual Volume shall equal the present Zoological Record in arrangement and facility of use, and that it shall by the efforts of the Regional bureaus of the World be made superior in completeness to anything that has yet appeared.

The Volume will appear at the customary period of the year; and no change will be made in the arrangements by which the Subscribers to the Zoological Record receive, and pay for, the Annual Volumes.

D. SHARP.

CAMBRIDGE.

December 15th, 1906.

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By the EDITOR.

ALPHABETICAL LIST
OF THE
ABBREVIATIONS
USED IN THE
ZOOLOGICAL RECORD, Vol. XLI, 1904,
FOR THE
TITLES OF THE JOURNALS, TRANSACTIONS, ETC.
THAT CONTAIN ZOOLOGICAL PAPERS;
WITH INDICATIONS OF SOME OF THE PRINCIPAL
LIBRARIES
IN WHICH THE BOOKS ARE CURRENT.

THE primary object of this list is to enable those using the Record to find with ease the full title of a Journal they see quoted in an abbreviated form. The arrangement is therefore a simple alphabetical list of the abbreviations, uncomplicated by syllabic or verbal limitations.

The list has also to serve the Recorders and others as a list of Journals, and for this purpose it is important that it should be fairly complete as regards current periodicals. In order to increase the utility of the list, the abbreviations have been made on a uniform system; but a few exceptions have, in practice, been found necessary. The chief points that have been kept in view in constructing the abbreviations may be briefly stated as follows:—

The words selected as distinctive in each title are reduced in most cases to three or four.

A distinct abbreviation is used for each different word, and the same abbreviation for the same word is used throughout the list.

Accents are omitted. As a rule the first word of the title is represented by an abbreviation, but this rule is departed from in the case of articles and prepositions, and occasionally in the case of adjectives that are useless for distinctive purposes. Thus "Annual Report" becomes "Rep.," and "Occasional Papers" becomes "Pap." Such adjectives as "New" and "Royal" are omitted, except when necessary for distinctive or other purposes.

The consecutive order of the words of the title is maintained in the abbreviation, except in a few cases where the arrangement of the words in the title is very unusual or faulty.

As an example of the form of abbreviation that is aimed at, we may take Bull. Soc. Moscou. The name of the locality is given at greater length than the more frequently used portions of the abbreviation.

After the titles, the place of publication is given, and this is followed by letters indicating some of the principal libraries in which the works may be consulted. The explanation of these letters is as follows:—

- N. = British Museum Natural History: general library.
 Nz. = " " " " library, zoological department.
 Ng. = " " " " geological " "
 K. = Science library; Victoria and Albert Museum.
 R. = Royal Society library.
 Z. = Zoological Society library.
 L. = Linnean " "
 C. = Cambridge University library.
 C, p or (C) p = Cambridge Philosophical Society library.
 b, or g, or y, or z, after C, or (C) = Cambridge Balfour, or Sedgwick Museum, or Physiological, or Zoological libraries respectively.
 O. = Radcliffe library, Oxford.
 § is prefixed to titles added since the last list, and to changes of titles when important.

- Abeille*—L'Abeille: Journal d'entomologie publié par la Société entomologique de France. (Paris, 8vo.) Nz. C.
- Abh. Ak. Berlin*—Abhandlungen der königlich Preussischen Akademie der Wissenschaften zu Berlin. (Berlin, 4to.) N. K. R. Z. L. C, p. O.
- Abh. Bayer. Ak.*^{ed}—Abhandlungen der mathematisch-physikalischen Classe der königlichen Bayerischen Akademie der Wissenschaften. (München, 4to.) N. K. R. Z. L. C, p. O.
- Abh. Böhmisch. Ges.*—Abhandlungen der mathematisch-naturwissenschaftlichen Classe der k. Böhmisches Gesellschaft. [Called also] Rozprawy tridy mathematicko-přirodvěcke královské Ceske společnosti Nauk. (Prag, 4to.) N. K. R. L. C, p.
- Abh. deutsch. Seefisch.-Ver.*—Abhandlungen des deutschen Seefischerei-Vereins. (Berlin, 4to.) Nz. C.
- Abh. geol. Karte Elsass*—Abhandlungen zur geologischen Spezial-Karte von Elsass-Lothringen. (Strassburg, 8vo.) Ng.
- Abh. geol. Landesanst. Darmstadt*—Abhandlungen der grossherzoglich Hessischen geologischen Landesanstalt zu Darmstadt. (Darmstadt, 8vo.) Ng.
- Abh. geol. Reichsanst.*—Abhandlungen der Kaiserlich-Königlichen geologischen Reichsanstalt. (Vienna, 4to.) Ng. R. L. C.
- Abh. Ges. Görlitz*—Abhandlungen der naturforschenden Gesellschaft zu Görlitz. (Görlitz, 8vo.) N. K. R.
- Abh. Ges. Götting.*—Abhandlungen der königlichen Gesellschaft der Wissenschaften zu Göttingen. Mathematisch-Physikalische Klasse. Neue Folge. (Göttingen, 4to.) N. R. Z. L. C, p. O.
- Abh. Ges. Halle*—Abhandlungen der naturforschenden Gesellschaft zu Halle. (Halle, 4to.) N. K. R. Z. L. C. O.
- Abh. Ges. Isis*—Sitzungsberichte und Abhandlungen der naturwissenschaftlichen Gesellschaft 'Isis' in Dresden. (Dresden, 8vo.) N. K. Z. C.
- Abh. Ges. Königsb.*— [Part of *Schr. Ges. Königsb.*, q.v.]

- Abh. Ges. Nürnberg*—Abhandlungen der naturhistorischen Gesellschaft zu Nürnberg. (Nürnberg, 8vo.) N. K. C.
- Abh. Ges. Wien*—Abhandlungen der K. K. zoologischen-botanischen Gesellschaft in Wien. N. K. R. Z. L. C. O.
- Abh. Hamburg. Anst.*—[Part of *Jahrb. Hamburg. Anst.*, q.v.]
- Abh. Mus. Dresden*—Abhandlungen und Berichte des königlichen zoologischen und anthropologisch-ethnographischen Museums zu Dresden. (Berlin, 4to.) Nz. Z. C.
- Abh. Preuss. geol. Landesanst.*—Abhandlungen der königlich Preussischen geologischen Landesanstalt (Neue Folge). [Formerly *Abh. geol. Specialkarte von Preussen und den Thüringischen Staaten.*] (Berlin, 8vo.) Ng. K. C.
- Abh. Sachs. Ges.*—Abhandlungen der k. Sächsischen Gesellschaft der Wissenschaften. (Leipzig, 4to.) N. K. R. C, p.
- Abh. Schweiz. pal. Ges.*—Abhandlungen der Schweizerischen paläontologischen Gesellschaft. Mémoires de la Société Paléontologique suisse. (Basel, &c., 4to.) Ng. R. Z. (C) g. O.
- Abh. Senckenb. Ges.*—Abhandlungen herausgegeben von der Senckenbergischen naturforschenden Gesellschaft. (Frankfort a.-M., 4to.) N. K. R. Z. L. C. O.
- Abh. Ver. Bremen*—Abhandlungen herausgegeben vom naturwissenschaftlichen Verein zu Bremen. (Bremen, 8vo.) N. K. R. Z. L. C.
- Abh. Ver. Hamburg*—Abhandlungen aus dem Gebiete der Naturwissenschaften herausgegeben vom naturwissenschaftlichen Verein in Hamburg. (Hamburg, 4to.) N. K. R. Z. L. C, b.
- Abh. Ver. Karlsruhe*—[Vide *Verh. Ver. Karlsruhe.*]
- Abh. Ver. Kassel*—[Issued with *Ber. Ver. Kassel*, q.v.]
- Abh. Ver. Lotos*—Abhandlungen des deutschen naturwissenschaftlich-medicinischen Vereines für Böhmen "Lotos." (Prag, 4to.) N. C.
- Acta Ac. German.*—N. Acta Academiæ Cæsareæ Leopoldino-Carolinæ Germanicæ naturæ curiosorum. [Called also] Verhandlungen der k. Leop.-Carol. deutschen Akademie der Naturforscher. (Halle, 4to.) N. K. R. Z. L. C, p. O.
- Act. Ac. Cordoba*—Actas de la Academia nacional de Ciencias en Córdoba. (Buenos Aires, 4to.) N. R. Z. L.
- Acta Soc. Faun. Fenn.*—Acta Societatis pro Fauna et Flora Fennica. (Helsingfors, 8vo.) N. R. L. C.
- Acta Soc. Lund.*—Acta regiæ Societatis physiographicæ Lundensis. [Published as part of *Acta Univ. Lund.*, q.v.]
- Acta Soc. Sci. Fenn.*—Acta Societatis Scientiarum Fennicæ. (Helsingfors, 4to.) N. K. R. Z. (C) p.
- Acta Soc. Upsal.*—Nova Acta regiæ Societatis Scientiarum Upsaliensis. (Upsala, 4to.) N. K. R. Z. L. C, p.
- Acta Univ. Lund.*—Acta Universitatis Lundensis. [Called also] Lunds Universitets Årsskrift, [and includes] Acta regiæ Societatis physiographicæ Lundensis, [also called] Kongl. fysiografiska Sällskapets i Lund Handlingar. (Lund, 4to.) N. K. R. L. C, p.
- Actes Mus. Rouen*—Actes du Muséum d'histoire naturelle de Rouen. (Rouen, 8vo.) N. L.

- Act. Soc. Bordeaux*—Actes de la Société Linnéenne de Bordeaux. (Bordeaux, 8vo.) N. Z. C.
- Act. Soc. Chili*—Actes de la Société scientifique du Chili. (Santiago, 4to.) N. R. Z.
- Act. Soc. ent. Bohem.*—Acta Societatis entomologicae Bohemiae. [Called also Časopis České Společnosti entomologické.] (Praze, 8vo.)
- Act. Soc. Espan.*—Actas de la Sociedad española de historia natural. (Madrid, 8vo.) N. R. Z. C.
- Act. Soc. Helvet.*—Actes de la Société Helvétique des Sciences naturelles. [Called also] Verhandlungen der schweizerischen naturforschenden Gesellschaft. (Basel, &c., 8vo.) N. K. R. L. C. O.
- Afh. Mus. Lund.*—E Museo Lundii. En Samling af Afhandlinger. (Kjobnhavn, 8vo.) N. K. R. Z. L.
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- Allg. Naturf. Zeit.*—Allgemeine Naturforscher Zeitung. (Berlin.)
- Amer. Geol.*—The American Geologist, a Monthly Journal of Geology and allied Sciences. (Minneapolis, 8vo.) Ng. (C) g. K. O.
- Amer. J. Anat.*—The American Journal of Anatomy. (Baltimore, 8vo.) (C) b.
- Amer. J. Physiol.*—The American Journal of Physiology. (Boston, 8vo.) N. K. R. (C) y. O.
- Amer. J. Sci.*—The American Journal of Science. (New Haven, 8vo.) N. K. R. Z. C, p. O.
- Amer. Micr. J.*—The American Monthly Microscopical Journal. (Washington, 8vo.) N. O.
- Amer. Mus. J.* The American Museum Journal. (New York, 8vo.) N. Z.
- Amer. Natural.*—The American Naturalist. (Philadelphia, 8vo.) N. K. Z. L. C, b. O.
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- Ann. Univ. Lyon*—Annales de l'Université de Lyon. [Nouvelle série.] I. Sciences, Médecine. (Paris, 8vo.) N. R. C, p.
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- Zool. Res.*—Collectio brevium dissertationum novarumque investigationum ad universas zoologicas doctrinas spectantium. (Roma, 8vo.)
- Zool. Vortr.*—Zoologische Vorträge herausgegeben von William Marshall. (Leipzig, 8vo.) Nz. Z.
- Zool. Zentrbl.*—[Vide *Zool. Centrbl.*]

An asterisk prefixed to a quotation signifies that the Recorder has not seen the journal or work referred to.

THE ZOOLOGICAL RECORD

FOR 1905.

I. GENERAL SUBJECTS.*

BY

D. SHARP.

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* It will be understood that papers recorded here may also be found under the various classes, II—XVIII. They are included here because of their bearing on general questions, which, if not obvious, will be made apparent in the Subject-Index.

INTRODUCTION.

THE number of titles this year is 786, being about 200 less than last year. This diminution is probably chiefly due to a more rigid exclusion of papers that are included in our special Records, and of those Plankton papers, the interest of which is chiefly faunistic.

RÁDL (567) gives us the first part of a history of biological theory in modern times. He, however, really starts with Aristotle, and the portion before us of the work extends only to Lamarck. It is an useful and well executed work.

In text-books, we record the completion of GROBBEN'S edition of Claus (272) and the second volume of SEDGWICK'S work (654). Both works are highly spoken of.

The general work of Father Wasmann recorded last year [Zool. Rec, 1904, Gen. Sub. Title 919] has given rise to a polemic in which the scientific position is excellently stated by Prof. FOREL (229). WASMANN replies in (740).

GIGLIO-TOS (257) has published the third part of his work dealing with the most difficult subjects of biology. It is devoted to fecundation and heredity. He considers all the cytological processes in ontogeny as forms of "biomolecular addition."

CRAMPTON (147) suggests a theory of adaptation and selection. In Physiology we have the republication in book form of 38 memoirs by Prof. JACQUES LOEB (419).

The present state of the physiology of sex differentiation is lucidly discussed by R. HERTWIG (318) and SCHAUDINN (615), whose decease is so widely regretted, has given a concise sketch of sex-processes in Protozoa and a diagrammatic demonstration of the nuclear changes.

The works on heredity are again very numerous, and amongst many others include a hypothesis as to its nature by HATSCHKE (296); the relation of chromosomes to heredity, HEIDER (301); and general reviews of the subject by STRASBURGER (686) and by ZIEGLER (782).

HILL (324) calls fresh attention to the extraordinary nature of the maturation phenomena in *Aleyonium*.

Miss STEVENS (680) informs us that in the parthenogenetic generation of *Aphis* reduction in the number of chromosomes is dispensed with.

CONKLIN (143) finds that, in Ascidian eggs, isolated blastomeres do not give rise to a whole embryo but only to those parts of a larva that would arise from them in normal conditions.

WIERZEJSKI'S work (756) on the embryology of *Physa* appears to be of considerable importance as a study of the earliest organogeny. His view as to the light cell-lineage throws on organ-formation is opposed to that of Conklin for Ascidians.

McCLUNG has a paper (463) on the accessory chromosome of *Orthoptera*, in which he discusses the relations of chromosomes to heredity and Mendel's laws; and WILSON'S papers (759-761) on chromosomes of other insects are interesting and important.

CHILD (120) informs us, as the result of regeneration experiments, that regulation of form is a problem of development; and that with regard to heredity and morphogenesis physiological conceptions must be substituted for morphological.

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II.—SUBJECT-INDEX.

1. GENERAL WORKS, including GENERAL TEXT-BOOKS, ESSAYS, EVOLUTION, ETC.

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- General systematic works, SCHULZE (645), BRONN (89A).
Text-book of zoology, vol. ii, *Amphioxus, Vertebrata*, SEDGWICK (653).
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II. MAMMALIA.

BY

R. LYDEKKER.

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INTRODUCTION.

THE number of papers recorded falls only a little short of that of last year. Among noticeable work, reference may be made to MITCHELL'S investigations on the mammalian cæcum, to those of ASSHETON and of ASSHETON & STEVENS on the placenta, and those of EGGELING on the lacteal and sudoriferous glands of the Marsupials. In connection with the latter, reference may also be made to other work on Marsupials and Monotremes in "Semon's Reise." SCHLAGINHAUFEN'S study of the papillary ridges and folds on the hands and feet of the *Primates* likewise claims a foremost place. BARDELEBEN'S views on the compound structure of the mammalian lower jaw, if substantiated, revolutionize our conceptions of this part of the skeleton.

In systematic work MEARNS'S paper on Philippine Mammals and ANDERSEN'S Chiropteran studies are noteworthy, as is THOMAS'S description of a new genus of Old World Cricetine Mouse. Reference may also be made to ELLIOT'S synopsis of American Mammals, to the completion of the supplementary edition of TROUESSART'S "Catalogue," and to the issue of the second volume of British Mammals by MILLAIS. RIDGWAY'S work on the Thoroughbred Horse is also one which has attracted much attention.

In palæontology SCOTT has added largely to our knowledge of the Patagonian Tertiary Mammal fauna; while the new Ruminants from Californian caves described by SINCLAIR and others are of the highest interest.

I. TITLES.*

1. ABEL, O. Ein Stammtypus der Delphiniden aus dem Miocän der Halbinsel Taman. Jahrb. geol. Reichsanst. lv, pp. 375-392, figg. [*Cetacea.*]
2. ——. Ueber *Halitherium bellunense*, eine Uebergangsform zur Gattung *Metaxytherium*. T. c. pp. 393-398, fig. [*Sirenia.*]
3. ——. Die phylogenetische Entwicklung des Cetaceengebisses und die systematische Stellung der Physeteriden. Verh. Deutsch. zool. Ges. 1905, pp. 84-96. [*Cetacea.*]
- ACUNA, M. [See JOLLY & ACUNA (208).]
4. ADLOFF, P. Zur Entwicklung des Säugetiergebisses. Anat. Anz. xxvi, pp. 333-343.
5. ADOLPHI, H. Die Spermatozoen der Säugetiere schwimmen gegen den Strom. Anat. Anz. xxvi, pp. 549-559, figg.
6. ——. Ueber die Variation des Brustkorbes und der Wirbelsäule des Menschen. Morphol. Jahrb. xxxiii, pp. 39-86, figg. [*Primates.*]
7. AGGAZZOTTI, A. Esperienze fatte sopra di un Orang-utang colla rarefazione dell' aria. Atti Acc. Lincei (5), xiv, pp. 706-713, fig. [*Primates.*]
8. ——. Expériences faites sur un Orang-outan avec la rarification de l'air. Arch. ital. Biol. xlv, pp. 39-48, figg. [*Primates.*]

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 ZOLARSKY, A. [See HOFMANN & ZOLARSKY (191).]
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II. GENERAL BIOLOGY (INCL. ANATOMY).

[+ prefixed to a paragraph indicates that it relates, in part or altogether, to extinct forms: when the sign is placed before a specific name it indicates that the species referred to is extinct.]

GENERAL AND COMPARATIVE ANATOMY.

A. GENERAL.

- Helictis*; BEDDARD (49).
Phocæna; BRAUN (69).
Otocyon; CARLSSON (92).
Rhinoceros (viscera); BURNE (78).

B. TEGUMENTARY SYSTEM.

Skin; JAPHA (202); RIJNBERK (341).
 Papillary ridges, etc.; SCHLAGINHAUFEN (373).
 Glands; MOLISSON (297).
 Mammary do.; EGGELING (124); WILLEY (465).

C. NERVOUS SYSTEM; SENSE ORGANS.

General; SMITH & DUCKWORTH (397).
 Brain; BEDDARD (48); BIANCHI (52); BRADLEY (66); HRDLIČKA (194);
 CAMPBELL (84); KRAUSE & KLEMPNOR (221); LECHE (228); LONGO (239);
 MELLUS (284); POL (326); TAKASU (421); WHITEHEAD (464); WITT (468).
 Nerves; BARNANO (41); DOGEL (117); FOX (146); MACOCCHI (267);
 SCHUMACHER (376); SCHUSTER (377); WALENBERG (455); HUNTINGDON
 (197).
 Ganglia; CAJAL (83); STREETER (412).
 Sympathetic; BROEK (73).
 Eye; FUCHS (148); SWEET (420).
 Ear; BAUM & DOLIERIS (45); GAUFINI (154); GRAY (171); KAMPEN
 (210).

D. MYOLOGY.

ANTHONY (30); BOSCHO (62); CHAINE (96 & 97); KEITH (diaphragm)
 (213); PIZORNO (321); POOLE (328); RUGE (357 & 358); THOMPSON &
 HILLIER (442); TOLDT (443).

E. OSTEOLOGY.

AMEGHINO (12-18); BARDELEBEN (40); BRADLEY (67 & 68); CAPELLINI
 (85-89); FISCHER (140); GAUPP (155); HOLLAND (192); KINGSLEY (216);
 KNAUFF (217); LÉBOUCQ (228); LORENZ (241); POCOCK (322); RECHE
 (330); RETTERER (337 & 338); TOLDT (444); WALKOFF (454).
 Interarticular cartilages; RETTERER (333-335).

F. ALIMENTARY SYSTEM.

a. *Dentition.*

ABEL (3); ADLOFF (4); COLYER (104); DYBOWSKI (122); HILZHEIMER
 (186); LAMBE (224); LÖNNBERG (238); RÜRIG & BÖRNER (348); STACH
 (405); STEHLIN (406); THOMAS (437); ZIELER (477).
 Gilt teeth; MAJOR (270).

b. *General.*

Palatine rugæ; LINTON (235).
 Stomach; Verson (451).
 Liver; DEFLANDRE (110); ILLING (200).
 Cloaca; DISSE (116).
 Cæcum; MITCHELL (293).
 Bile-ducts; MILLER (291A).

G. CIRCULATORY AND RESPIRATORY SYSTEMS.

Arteries; BÄRNER (37); GÖPPERT (164); LEHMANN (229); PHILIPS
 (316).
 Veins; BELL (50); LEWIS (233); SOULIÉ & BONNE (398).

Lymphatics; LEWIS (232); SABIN (359).
 Blood-corpuses; JOLLY (206 & 207).
 Leucocytes; JOLLY & ACUNA (208).
 Thymus; GOODALL (166).
 Cardiac glands; HAANE (175).
 Lungs; BIZZOZERO (54); OPPEL (306).
 Pleural cavity; KEITH (213).
 Laryngeal sac; ZUCKERKANDL (481).
 Tonsils; ZARRIA (482).

H. URINO-GENITAL ORGANS.

General; BOHM (56); GERHARDT (156); PERRIER (314).
 Testicle; BOUIN & ANCEL (63).
 Urethral glands; CITELLI (99).
 Membranes; GIANNELLI (158).
 Uriniferous tubules; HÜLIER (196).
 Kidney; FUHRMANN (149); HILL (185); SRDINKO (404).

I. DEVELOPMENT, incl. EMBRYOLOGY.

Placenta; ASSHETON (34 & 35); ASSHETON & STEVENS (36); STRAHL (409-411).
 Ovum, Ovulation, Ovary; BOINVILLE (57); CLAYPON (102); FISCHER (139); HEAPE (181); HERMANN (184); MARSHALL & JOLY (277); STRICHT (413).
 Corpus luteum; MARSHALL (276).
 Umbilical chord; FRANKL (147).
 Impregnation; RUBASCHKIN (356).
 Spermatozoa; ADOLPHI (5).
 Of lymphatics; SABIN (359).
 Of veins; SOULIÉ & BONNE (398); LEWIS (233).
 Of skeleton; WALKHOFF (454).
 Of teeth; ADLOFF (4).
 Of ear; BAUM & DOLIERS (45); GRAY (171).
 Of eye; FUCHS (148).
 Of brain; BRADLEY (66).
 Of cloaca; DISSE (116).
 Of kidney; HILL (185).
 Of ovary; CLAYPON (102).

K. VARIOUS NOTES.

Origin and Phylogeny; SIXTA (394); HERMANN (184); BOULE (65); DEPÉRET (114 & 115); *Equidæ*; OSBORN (308); *Cetacea*; ABEL (3); *Halicore*; ANNANDALE (28).
 Habits; COWARD (105); KAMMERER (209); OLDHAM (304 & 305); ALLAN (9); MOFFAT (295).
 Breeding do.; WARD (457A); WHITAKER (463).
 Coloration; BONHOTE (59); HARPER (180); WOOD (470); POCOCK (325).
 Heredity; HARPER (180); HURST (198 & 198A); FARABEE (131); WOOD (470).
 Longevity; LYDEKKER (247).
 Fertility; MARSHALL (275); SCHUSTER (377); IWANOFF (201).
 Hybrids; LÖNNBERG (237); SCHUSTER (377).
 Castration; POCOCK (324).
 Hibernation; POLIMANTI (327).

- Temperature and pressure; AGGAZOTTI (7 & 8); HERLITZKA (183); MOSSO (298); SIMPSON & GALBRAITH (390).
 Brain-weight; HRDLIČKA (194).
 Nutrition and weight; SCHEUNERT (370); ZIMMER (478).
 Proportionate weight; WARD (457).
 Adaptation; FRAAS (146A); WIMMER (467).
 Fossil burrows; PETERSON (314A).
 Marks on bones; DELAMBRE (112).
 Abnormalities; ADOLPHI (6); BRADLEY (67); COLYER (104); DEROCQUE & KERVILLE (115); FARABEE (131); HILZHEIMER (186 & 187); MILLER (291A); TOLDT (443).
 Attitudes; GAUDRY (152).
 Segmentation; GROSSER (172 & 173); RIJNBERK (341).
 Serum-action; HÉDON & FLEIG (182).
 Domesticated; DÜERST (121); GILBEY (159-161); HARPER (180); KAMMERER (209); KELLER (214); LYDEKKER (259, 264, 265); MARSHALL (274 & 275); RIDGEWAY (340); SCHUSTER (378); WOOD (470); ZABROWSKI (475).
 Menageries; BEDDARD (47); CUNNINGHAM (106); SCHERREN (369A).
 Plague and Rats; SKINNER (395).
 Prehistoric pictures; CAPITAN, BREUIL & PEYRONY (91).
 Restorations of extinct species; KNIPE (218).
 Whaling; BARRON (42); HALDANE (177); SOUTHWELL (399, 401).
 Sporting; HUBBACK (195); HUTCHINSON (199); SCHILLINGS (371); WRAY (472).
 Nomenclature; AMEGHINO (19); EASTMAN (123); JOHNSTON (205); ROTHSCHILD (351); STEJNEGER (407); THOMAS & MILLER (438).
 Text-books; MARTIN (278); SEDGWICK (387).
 Catalogues; ELLIOT (127); PENNETIER (313B); TROUESSART (446).

GEOGRAPHICAL DISTRIBUTION.

1. EASTERN HOLARCTIC.

- British Isles; MILLAIS (289); REES (331); SMITH, Lincolnshire (396); FORREST, Shropshire (144); MARTIN (278A); WATT, Scotland (462); WATERSTON, St Kilda (460).
 Spain; GRAINO (168); SEABRA (385).
 Italy; LUCIFERO (243).
 Switzerland; FATIO (134).
 Transcaspia; SATUNIN (365).
 Kashmir; WARD (456).
 China; HILZHEIMER (187).
 Japan; THOMAS (426, 430).

2. AFRICA and MADAGASCAR.

- Africa as a distributional centre; FERENEZ (136).
 General; THOMAS (427); THOMAS & SCHWANN (439 & 440); ROTHSCHILD (350).
 Tunisia; CHAIGNON (95); TROUESSART (447).
 Egypt and Sudan; LORTET (242); REZSO (339); SCHWANN (379).
 E. Africa; RADCLIFFE (329); SCHILLINGS (371).
 Angola; SEABRA (384).
 Liberia; JOHNSTON (204).
 W. Africa; BATES (43).
 Madagascar; SEABRA (386).

3. S.E. ASIA and ASIATIC ARCHIPELAGO.

Sumatra; SCHNEIDER (375).
Philippines; MEARN'S (282).

4. NORTH AMERICA.

General; ELLIOT (127).
Dodge County; SNYDER (397A).
Texas; BAILEY (38).
Utah; ALLEN (10).
Alaska; ANON (29).
California; STONE (408).
N. Carolina; BRIMLEY (72).

5. SOUTH AMERICA.

Amazonia; GOELDI (163).
Chili; CABRERA (82).
Galapagos; HELLER (182A).
Argentina (*Cretacea*); LAHILLE (222).
Patagonia; ALLEN (10).

6. ANTARCTICA.

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†*Fossil Faunas.*

Europe; SCHOETENSACK (374A).
Norfolk Forest-bed; DUBOIS (120).
English counties; LYDEKKER (246).
Ireland; SCHARFF (368).
France; BOULE (64); DELAMBRE (113); PARAT (313).
Holland; DUBOIS (119).
Switzerland; ROLLIER (349); STEHLIN (406).
Pomerania; DEECKE (109).
Germany; VOIGHTS & OUDEMANS (453).
Styria; HOFMANN & ZDARSKY (191).
Bosnia; WÖLDRICH (469).
Persia; MACQUENEM (267).
Egypt; BEADNELL (44); STROMER (414).
Madagascar; GRANDIDIER (169).
Alaska; OBALSKI (303).
Maryland; CASE (94).
N. America; OSBORN (307); MATTHEW (280).
California; SINCLAIR (393).
Patagonia; GAUDRY (152 & 153); SCOTT (381 & 382); SINCLAIR (391).

III. SYSTEMATIC.

I. PRIMATES.

Variation in sternum and vertebral column; ADOLPHI, *Morphol. Jahrb.* xxxiii, p. 39; mechanics, etc. of skeleton, WALKOFF (454); vestiges of *panculus carnosus*, RUGE, *Morphol. Jahrb.* xxxiii, pp. 348 & 379, BASCHO, t. c. p. 274; plantar papillary ridges and grooves, especially

as distinctive between the Old and New World groups, SCHLAGINHAUFEN, *Morphol. Jahrb.* xxxiii, p. 576 and xxxiv, p. 1; Brain, KRAUSE & KLEMPNOR, *Abh. Ak. Berlin* 1904, arts 1 & 3, and *Zeitschr. Morphol.* ix, p. 59; embryos, KIEBEL, *Rep. Brit. Ass.* 1904, p. 596; cervical plexus, HUNTINGDON, *Tr. N. York Ac.* xvi, p. 82, 1897.

ANTHROPOIDEA.

- Revision of the species and races of *Simiidae* (exclusive of *Hylobates*), with redistribution and amendment of the generic names, ROTHSCHILD, *P. Zool. Soc. London* 1904, ii, p. 413.
- Homo sapiens*, heredity in digital malformation, FARABEE, *Papers Peabody Mus.* iii, p. 69; segmental structure displayed by dermal vascular system of chest, GROSSER, *Morphol. Jahrb.* xxxiii, p. 555.
- Application of the names *Simia*, *Pongo*, and *Satyros*, JOHNSTON, *P. Zool. Soc. London* 1905, ii, p. 70.
- Simia* [= *Anthropopithecus*] *pygmaeus rarispinosus*, French Congo, ROTHSCHILD, *P. Zool. Soc. London* 1904, ii, pp. 422 & 428; note on names *Simia*, *Gorilla*, etc., EASTMAN, *Science* xxii, p. 24.
- Anthropopithecus troglodytes*, papillary ridges, KIDD, *P. Zool. Soc. London* 1904, ii, p. 263; semi-lunar cartilages, RETTERER, *C.R. Soc. Biol.* lviii, p. 476; digastric muscle, CHAINE, *op. cit.* lix, p. 623; sp. cf. *gorilla*, large male from the Congo, HAMY, *Nature (La)*, July 29, p. 129; *gorilla* at Breslau, GRADOWSKY, *Verh. Ges. Breslau* lxxxvi, p. 253.
- Simia satyros*, behaviour under reduced atmospheric pressure, AGGAZOTTI, *Atti Acc. Lincei* xiv, p. 706, and *Arch. ital. Biol.* xliv, p. 39; brain, KRAUSE & KLEMPNOR, *supra*.
- Hylobates hainanus*, colour-change with age, and nomenclature, POCOCK, *P. Zool. Soc. London* 1905, ii, p. 169.
- Colobus palliatus cottoni*, Qugo, Central Equatorial Africa, LYDEKKER, *Ann. Nat. Hist.* (7) xvi, p. 432, n. subsp.
- Semnopithecus tsenensis*, Tertiary, Casino, Tuscany, STEFANI, *Ann. Soc. geol. Belgique* xviii, p. 334, foot-note, 1891, n. sp.
- Cercopithecus crossi*, Cameroons, *Nature* lxxii, p. 630, n. sp., identified with *C. preussi* Matschie, *op. cit.* lxxiii, p. 319, FORBES.
- Macacus nemestrinus*, throat-sac, ZUCKERKANDL, *Zeitschr. Morphol.* ix, p. 145.
- Cynomologus mindanensis*, Mindanao, p. 428, *apoensis*, Mt. Apo, p. 429, *suluensis*, Sulu, p. 430, *cagayanus*, Cagayan, p. 431, MEARNS, *P. U. S. Mus.* xxviii, n. spp. & subsp.
- Cynopithecus niger*, brain, BEDDARD, *P. Zool. Soc. London* 1905, i, p. 22.
- Cebidae*, double discoidal placenta, STRAHL, *Anat. Anz.* xxvi, p. 425.
- Cebus curtus*, Gorgona Id., Colombia, BANGS, *Bull. Mus. Harvard* xlvi, p. 91, n. sp.

LEMUROIDEA.

- Extinct forms, especially those of Madagascar, GRANDIDIER, *Arch. Mus. Paris* (4) vii, p. 1.
- Nycticebus tardigradus hilleri*, figure, LYDEKKER, *P. Zool. Soc. London* 1904, ii, pl. xxiii.
- Loris gracilis*, presence of four mammæ, WILLEY, *Spolia Zeylan.* iii, p. 159; *L. g. zeylanicus*, Ceylon, LYDEKKER, *P. Zool. Soc. London* 1904, ii, p. 346, n. subsp.
- Galago demidoffi poensis*, Fernando Po, THOMAS, *P. Zool. Soc. London* 1904, ii, p. 186 (*Abstr.* 1904, No. 10, p. 12), n. subsp.

Tarsius spectrum, primordial cranium, FISCHER, P. Ac. Amsterdam 1905, p. 397.

† *Megaladapis edwardsi*, osteology; LORENZ, Denk: Ak. Wien lxxvi, p. 451.

II. CHIROPTERA.

Distinctive characteristics of British species, DALGLEISH, Tr. Guernsey Soc. 1904, 4 pp., FORREST, Field Nat. Quart. iii, p. 334; habits of ditto, especially *Rhinolophus hipposiderus*, OLDHAM, Mem. Manchester Soc. xlix, No. 9; flight, MOFFAT, Irish Natural. xv, p. 97; breeding habits, WHITAKER, Naturalist 1905, p. 325; Yorkshire, ARMITAGE, t. c. p. 37; bats of Erithræa, SENNA, Arch. zool. ital. ii, p. 251; proportionate weights, WARD, Tr. Wisconsin Ac. xiv, p. 630.

Pteropus lanensis, Mindanao, p. 432, *cagayanus*, Cagayan, p. 433, MEARNs, P. U. S. Mus. xxviii, n. spp.

Dobsonia magna, Brit. New Guinea, THOMAS, Ann. Nat. Hist. (7) xvi, p. 423, n. sp.

Rhinolophus, list of species, ANDERSEN, Ann. Nat. Hist. (7) xvi, p. 684; *darlingi*, Mashonaland, xv, p. 70, *acrotis brachygnathus*, Giza, p. 73, *fumigatus exsul*, B. E. Africa, *hildebrandti eloquens*, Uganda, p. 74, *sedulus*, Sarawak, xvi, p. 247, *lanosus*, Fokien, p. 248, *solitarius*, Banka, p. 250, *geminus*, E. Java, *beddomei*, Mysore, p. 253, *arcuatus exiguus*, Guimaras, *subrufus*, Luzon, p. 283, *inops*, Mindanao, p. 284, *euryotis timidus*, Bachian, p. 285, *eu. præstans*, Key Islands, p. 286, *hirsutus*, Guimaras, *pearsoni chinensis*, Fokien, p. 289, Ann. Nat. Hist. (7), *simplex*, Lombok, p. 76, *megaphyllum monachus*, Louisiades, p. 80, *nanus*, Goram Is., p. 82, *celebensis*, Celebes, p. 83, *virgo*, Luzon, p. 88, *nereis*, Anambas Is., p. 90, *stheno*, Selangor, p. 91, *rouxi sinicus*, Low Yangtse, p. 98, *thomasi*, Karen Hills, p. 100, *affinis himalayanus*, Masuri, *a. tener*, Pegu, *a. macrurus*, Karen Hills, p. 103, *a. superans*, Pahang, *a. nesitis*, Natuna Is., p. 104, *a. princeps*, Lombok, p. 106, *ferrum equinum regulus*, Masuri, *f. e. proximus*, Gilgit, p. 112, *monticola*, Masuri, *refulgens*, Perak, p. 124, *cornutus pumilus*, Liu-Kiu Is., p. 127, *gracilis*, Malabar, p. 129, *monoceros*, Formosa, p. 131, *acuminatus audax*, Lombok, *sumatranus*, Sumatra, p. 133, *calypso*, Engana, p. 134, *midas*, Jask, p. 138, P. Zool. Soc. London 1905, ii, ANDERSEN; *andreinae*, Erithræa, SENNA, Arch. zool. ital. ii, p. 256, pl. xvi: n. spp. & subspp.

Hipposiderus diadema oceanitis, Solomon Ids., p. 497, *d. pullatus*, New Guinea, p. 498, *d. vicarius*, N. Borneo, p. 499, *evotis*, Batchian, *dinops*, Solomon Ids., p. 509, n. spp. and subspp., *lankadiva*, Kelaart, the Cingalese representative of the group, p. 500, ANDERSEN, Ann. Nat. Hist. (7) xvi.

Vespertilo capensis gracilior, Eshowe, p. 257, *matroka*, Madagascar, p. 258, THOMAS & SCHWANN, P. Zool. Soc. London 1905, ii; *matschiei*, Jimel, near Aden, THOMAS, Ann. Nat. Hist. (7) xvi, p. 573; *lugubris*, Switzerland, FATIO, Arch. Sci. Nat. xix, p. 311: n. spp. & subsp.

Hesperoptenus tomesi, Malacca, THOMAS, Ann. Nat. Hist. (7) xvi, p. 575, n. sp.

Pipistrellus aladdin, Persia, THOMAS, P. Zool. Soc. London 1905, Abstr., No. 24, p. 23, n. sp.

Pterygistes noctula, time of flight, OLDHAM, Zoologist (4) ix, p. 307.

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III. AVES.

BY

R. BOWDLER SHARPE, LL.D., &C.

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INTRODUCTION.

Three important works have been finished in Germany during the past year, viz. HENNICKE'S new edition of Naumann's 'Vögel Mittel-Europas,' REICHENOW'S famous 'Vögel Afrikas,' and REY'S 'Eier der Vögel Mittel-Europas.' The amount of periodical literature devoted to Birds continues to increase, and to tax the patience of the Recorder, but in this portion of the work he has once more received the assistance of his friend and coadjutor, Mr Charles Chubb.

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Order CASUARIIFORMES.

Dromaius patricius [fossil], bones figured, from Pleistocene of Interior of South Australia ; DE VIS, Ann. Queensland Mus. No. 6, p. 25, pl. ix.

Dromiceius Vieill. vice *Dromaius* ; OBERHOLSER, Smithson. Collect. quart. vol. 48, p. 60.

Order APTERYGIFORMES.

Apteryx mantelli, notes on ; SETH-SMITH, Avicult. Mag. (2) iii, pp. 314-317 cum fig. : *A. hausti*, figured ; BULLER, Suppl. B. New Zealand i, pl. i.

Sub-class CARINATÆ.

Order TINAMIFORMES.

Crypturus soui mustelinus, n. subsp., Santa Marta, Colombia ; BANGS, P. Soc. Washington xviii, pp. 151 & 152 : Eggs described ; ALLEN, Bull. Amer. Mus. xxi, p. 279.

Rhynchotus rufescens catinçæ, n. subsp., Rio Paranahyba, Brazil ; REISER, Anz. Ak. Wiss. 1905, No. xviii, p. 324.

Order GALLIFORMES.

- Megapodius pritchardi*, figured ; BULLER, Suppl. B. New Zealand i, pl. 2.
Pipile cufubi from Parà ; HELLMAYR, Nov. Zool. xii, p. 304.
Lagopus leucurus, note on ; HENSHAW, Auk xxii, p. 315.
Lyrurus tetrix, notes on ; LÖNNBERG, Ornith. Monber. xiii, pp. 98 & 99 :
L. tetrix mongolicus, is from Tianshan ; id. Arkiv Zool. ii, pp. 10
 & 11.
Tetrao urogallus lugens, n. subsp., Finland ; LÖNNBERG, Ornith. Monber.
 xiii, pp. 101-103.
Centrocercus urophasianus, notes on ; BURNETT, Condor vii, pp. 102-105
 cum fig.
Taoperdix keltica, n. sp. [fossil], Upper Eocene of France ; EASTMAN, Mem.
 Carnegie Mus. ii, pp. 134-138, pls. xiii & xiv.
T. pessieti (Gervais) fossil, p. 138, figured, id. t. c. pls. xv & xvi.
Tetraogallus himalayensis, nestling described and figured ; LÖNNBERG,
 Arkiv Zool. ii, p. 9, pl. i.
Caccabis rufa, nesting in Somersetshire ; READ, Bull. B. O. C. xv, pp. 76
 & 77 : absence of scent in sitting bird ; id. t. c. p. 77 : HARTERT,
 t. c. p. 77 : TREVOR-BATTYE, t. c. p. 77 : WITHERBY, t. c. p. 77 :
 MEADE-WALDO, t. c. p. 77 : Earl of GAINSBOROUGH, t. c. p. 77 : GRANT,
 t. c. p. 77.
Ammoperdix heyi, notes on the species in confinement ; TREVOR-BATTYE
 Avicult. Mag. (2) iii, pp. 263-270 cum tab.
Francolinus coqui angolensis Rothsch., probably = *F. stuhlmanni* ;
 REICHENOW, Vög. Afrikas iii, Nachtrag, p. 815.
F. nahani, n. sp., Ituri River, Upper Congo ; DUBOIS, Ann. Mus. Congo i,
 p. 17, pl. x : *F. mulemæ*, fully described ; GRANT, Ibis 1905, p. 212 :
F. schützi Cab. and *F. s. tetraoninus* Bl. & Lov., notes on ; ERLANGER,
 J. Ornith. 1905, pp. 144 & 145 : *F. castaneicollis* (fig. 1) and *F. c.*
bottegi (fig. 2), figured ; id. t. c. pp. 146-148, Taf. viii : *F. clappertoni*,
F. c. sharpei and *F. c. gedgei*, notes on ; id. t. c. pp. 148 & 149 :
F. spilolæmus ellenbecki, n. subsp., Mts. of S. Arussi, Galla Land and
 Boran Land ; id. t. c. pp. 150 & 151 : *F. zephæna* and its allies,
F. spilogaster Salvad. is a hybrid between *F. granti* and *F. kirki* ; id.
 t. c. p. 154.
Pternistes leucoseopus, breeding in confinement ; INGRAM, Avicult. Mag.
 (2) iii, pp. 352-355 : *P. infuscatus* and its allies ; ERLANGER,
 J. Ornith. 1905, pp. 140-144 : REICHENOW, Vög. Afrikas iii, Nachtrag,
 p. 813.
Perdix dauurica, note on ; LÖNNBERG, Arkiv Zool. ii, No. 9, p. 10.
Arboricola campbelli, notes on ; ROBINSON, J. Federated States Mus. i,
 pp. 105-108 : figured ; id. Ibis 1905, pp. 164 & 165, pl. iv : key to
 the species of *Arboricola* ; GRANT, t. c. pp. 166-168 : *A. ricketti* and
A. henrici, notes on ; id. t. c. pp. 168 & 169.
Coturnix coturnix, in Ireland ; BENSON, Irish Natural. xiv, p. 164 :
 USSHER, t. c. p. 264 : notes on the variations of plumage ; CHIGI,
 Bol. Soc. zool. Ital. (2) vi, pp. 247-256.
Perdix coturnix, on Lopham Fen, Norfolk ; SAWBRIDGE, Nature lxxi,
 p. 605 : MAXWELL, t. c. p. 630.
Synæcus australis, breeding in captivity ; SETH-SMITH, Avicult. Mag. (2)
 iii, pp. 363-366.
Ophrysia superciliosa, note on ; COMBER, J. Bombay Soc. xvi, pp. 361
 & 362.
Gennæus nycthemerus, notes on ; FINN, Avicult. Mag. (2) iii, pp. 102-106.
Phasianus mongolicus (*semitorquatus*?) and *P. m. turcestanicus*, notes on ;
 LÖNNBERG, Arkiv Zool. ii, pp. 7-9 : *P. colchicus* × *Tetrao tetrix* ;
 PARROT, Verh. Orn. Ges. Bayern v, pp. 14-16.

- Chrysolophus pictus*, notes on the variations of plumage; FINN, Avicult. Mag. (2) iii, pp. 102-106: *C. amherstiae*, in Upper Burma; COMBER, J. Bombay Soc. xvi, pp. 512 & 753.
- Gallus bankiva*, experiments on heredity; BATESON, Rep. Brit. Ass. 1904, pp. 346 & 595: a suggestion as to the nature of the "walnut" comb in Fowls; BATESON & PUNNETT, P. Cambridge Soc. xiii, pp. 165-168.
- Argusianus grayi* as food; FINSCH, Notes Leyden Mus. i, pp. 140-142.
- Numida ptilorhyncha* var. *inermis*, n. subsp., Upper Congo; DUBOIS, Ann. Mus. Congo i, pp. 18 & 19: *N. ptilorhyncha* and its allies; ERLANGER, J. Ornith. 1905, pp. 137-139.
- Guttera*. Revision of the genus; GHIGI, Mem. Acc. Bologna(6) ii, pp. 189-198, Tav. i: *G. barbata*, n. sp., Madagascar, *G. lividicollis*, n. sp., Zambesia; id. t. c. p. 196.

Order HEMIPODII.

- Turnix lepurana*, breeding in confinement; BUTLER, Avicult. Mag. (2) iii, pp. 217-222: *T. suluensis*, n. sp., Jolo Is., off Sulu, Philippine Is.; MEARNs, P. Soc. Washington xviii, pp. 83 & 84: *T. nigricollis*, notes on the breeding in captivity; BUTLER, Avicult. Mag. (2) iii, pp. 195-203; *T. varia*, breeding in confinement; SETH-SMITH, Bull. B. O. C. xvi, p. 19: id. Avicult. Mag. (2) iii, pp. 295-301 cum tab.

Order PTEROCLIDIFORMES.

Catalogue of the collection in the Wiesbaden Museum; LAMPE (375).

- Pterocles exustus*, breeding in confinement; PYCRAFT, Knowledge 1905, p. 15: *P. decoratus ellenbecki*, n. subsp., S. Somali Land and Witu; ERLANGER, J. Ornith. 1905, pp. 92 & 93, Taf. iii, figg. 1a [♂], 1b [♀]: *P. decoratus*, figured; id. t. c. Taf. iii, figg. 2a [♂], 2b [♀]: *P. lichtensteini*, figured; id. t. c. Taf. iv, figg. 1a [♂], 1b [♀]: *P. lichtensteini hyperythrus*, n. subsp., S. Somaliland; id. t. c. p. 94, Taf. iv, figg. 2a [♂], 2b [♀].

Order COLUMBIFORMES.

Catalogue of the collection in the Wiesbaden Museum; LAMPE (375).

- Experiments on heredity in Web-footed Pigeon; STAPLES-BROWNE, Rep. Brit. Ass. 1904, p. 595.
- List of the species known to inhabit the Malay Peninsula; ROBINSON, J. Federated States Mus. i, pp. 45-57.
- Phapitreron leucotis*, remarks on the nest and eggs; MCGREGOR, Bureau Govt. Labs. Manila, No. 34, pp. 6 & 7, pl. iii.
- Muscadivora* Schlegel vice *Carpophaga* Auct. (nec Billberg); MEARNs, P. Soc. Washington xviii, p. 84, note ex Richmond MSS.: *M. lany-hornei*, n. sp., West Boloe Is., Basilan, Philippine Is.; id. t. c. pp. 84 & 85.
- Ptilocolpa mindanensis*, n. sp., E. Mindanao; GRANT, Bull. B. O. C. xvi, p. 16.
- Columba uncinata* in Uganda; SETH-SMITH, Bull. B. O. C. xv, p. 75: *C. guinea* and its allies; ERLANGER, J. Ornith. 1905, pp. 112-114: *C. palumbus*, numbers in Herts. in autumn of 1905; HARTERT, Bull. B. O. C. xvi, p. 38: *C. palumbus azorica*, n. subsp., Azores, HARTERT, Nov. Zool. xii, p. 93: *C. intermedia*, note on; LÖNNBERG, Arkiv Zool. ii, p. 16: *C. philippance*, notes on; ROTHSCHILD & HARTERT, Nov. Zool. xii, p. 245.
- Turturcena iriditorques* from Sierra Leone; KEMP, Ibis 1905, p. 216.

- Turtur lhasae*, n. sp., Tibet; WALTON, Bull. B. O. C. xv, p. 92: *T. shelleyi* and allies, remarks on; KLEINSCHMIDT, J. Ornith. 1905, pp. 157 & 158.
- T. senegalensis* and its allies; ERLANGER, t. c. pp. 116-119, Taf. v, figg. 1-3: *T. semitorquatus* and its allies; id. t. c. pp. 120-126, Taf. vi, figg. 1-3: *T. s. minor*, n. subsp., S. Somali Land; id. t. c. p. 125, Taf. vi, fig. 3: *T. s. intermedius*, n. subsp., S. Abyssinia, Galla Land, to Equat. and S. Africa; id. t. c. p. 124, Taf. vi, fig. 2: *T. decipiens griseiventris*, n. subsp., N. Somali Land; id. t. c. p. 126, Taf. vi, fig. 6: *T. decipiens* (fig. 5), *T. d. ambiguus* (fig. 7), *T. d. perspicillatus* (fig. 8), figured; id. t. c. Taf. vi: *T. damarensis*, figured; id. t. c. p. 123, Taf. vi, fig. 9: *T. d. tropicus* (fig. 10), *T. d. capicola* (fig. 11), figured; id. t. c. Taf. vi: *T. d. somalicus*, n. subsp.; id. t. c. p. 127, Taf. vi, fig. 12: *T. risorius*, figured; id. t. c. Taf. vi, fig. 13: *T. r. decaocto* (fig. 14), *T. r. roseogriseus* (fig. 15), figured; id. t. c. Taf. vi: *T. vinaceus* (fig. 16), *T. reichenowi* (fig. 17), figured; id. Taf. vi: ERLANGER, J. Ornith. 1905, p. 126, Taf. vi, fig. 2b: *T. ambiguus permixtus*, n. subsp., E. Africa, from the Victoria Nyanza to the Zambesi; REICHENOW, Vög. Afrikas iii, Nachtrag, p. 868: *T. reichenowi* Erl., N. E. Africa (Dolo to Gobwen), figured; ERLANGER, J. Ornith. 1905, Taf. vi, fig. 6.
- Scardafella inca dialeucois*, n. subsp., Honduras and Nicaragua; BANGS, P. Soc. Washington xviii, pp. 151 & 152.
- Claravis pretiosa livida*, n. subsp., Rio Cauca, Colombia; id. t. c. p. 153.
- Ena capensis anonyma*, n. subsp., Kilimanjaro district, E. Africa; OBERHOLSER, P. U. S. Mus. xxviii, pp. 843 & 844.
- Chalcopelia chalcospila acanthina*, n. sp., Kilimanjaro district, E. Africa, id. t. c. pp. 845 & 846: notes on the five known forms; id. t. c. pp. 846 & 847.
- Chalcopelia chalcospilos somalica*, n. subsp., S. Somali Land; ERLANGER, J. Ornith. 1905, p. 134, Taf. vii, fig. 2b: *C. afra* (fig. 1) and *C. chalcospilos chalcospilos* (fig. 2a), figured; id. t. c. Taf. vii.
- Chalcophaps natalis*, egg; MUNT, Bull. B. O. C. xv, p. 51.
- Petrophassa albipennis*, eggs described; NORTH, Rec. Austral. Mus. v, p. 269.
- Lophophaps plumifera* and *L. ferruginea*, notes on nomenclature; HARTERT, Nov. Zool. xii, pp. 197 & 198.
- Ocyphaps lophotes*, in captivity; ROBERTS, Emu iv, pp. 182-184.
- Aplopelia larvata* from Kilimanjaro; OBERHOLSER, P. U. S. Mus. xxviii, p. 847.
- Columbigallina passerina exigua*, n. subsp., Mona Island, Porto Rica; RILEY, P. U. S. Mus. xxix, pp. 171 & 172: *C. passerina granatina* and *C. rufipennis*, nests and eggs described; ALLEN, Bull. Amer. Mus. xxi, p. 280.
- Leptoptila jamaicensis*, figured; SETH-SMITH, Avicult. Mag. (2) iii, pl. to p. 87: *L. verreauxi*, nest and eggs described; ALLEN, Bull. Amer. Mus. xxi, pp. 279 & 280: *L. chloroauchenia*, nesting in confinement; ALDERSON, Avicult. Mag. (2) iii, pp. 130-134.
- Geotrygon martinica digressa*, n. subsp., Guadeloupe, Lesser Antilles; BANGS, P. Soc. Washington xviii, pp. 153 & 154.
- Phlogoenas beccarii intermedia*, n. subsp., Solomon Islands; ROTHSCHILD & HARTERT, Nov. Zool. xii, pp. 246 & 247: *P. plateneae*, nest and eggs described; MCGREGOR, Bureau Govt. Labs. Manila, No. 34, p. 8, pls. iv-vi.
- Leucosarcia praevisa*, n. sp. [Fossil], Pleistocene of Interior of South Australia; DE VIS, Ann. Queensland Mus. No. 6, p. 8, pl. i, fig. 5a.
- Microgoura meeki*, described; ROTHSCHILD & HARTERT, Nov. Zool. xii, p. 247.
- Didunculus strigirostris*, egg; MUNT, Bull. B. O. C. xv, p. 51.

Order RALLIFORMES.

- Rallus aquaticus korejewi*, n. subsp., N. E. Turkestan, Amu Darya, Transcaspia, E. Persia; SARUDNY, Ornith. Monber. xiii, pp. 209 & 210: from Lenkoran; LOUDON, t. c. p. 209, note: *R. aquaticus* also in Lenkoran; LOUDON, t. c. p. 209, note: *R. elegans*, in Massachusetts; FARLEY, Auk xxii, p. 409.
- Hypotaenidia torquata*, abnormal bill; MCGREGOR, Bureau Govt. Labs. Manila, No. 34, p. 9, pl. vii.
- Cabalus modestus*, figured; BULLER, Suppl. B. New Zealand i, pl. iii.
- Ocydromus scotti*, n. sp., Stewart Island, OGILVIE-GRANT, Bull. B. O. C. xv, p. 78 (1905); id. Ibis 1905, pp. 550 & 551.
- Crex pratensis*, near Lurgan in winter (Jan.); PATTERSON, Irish Natural. xiv, p. 119.
- Porzana maruetta* var. *maculipennis*, n. subsp., Murghab and Herri-rud districts, E. Persia; SARUDNY, Denkschr. K. Russ. Geogr. Ges. xxxvi, p. 74 (1903). Cf. OTTO, Ornith. Monber. xiii, p. 135: *P. noveboracensis*, near Springfield, Mass.; MORRIS, Auk xxii, p. 208.
- Sarothrura bonapartei* from Sierra Leone; KEMP, Ibis 1905, p. 217.
- Creciscus pileatus* (Wied.) = *C. viridis* (P. L. S. Müll.); HELLMAYR, Nov. Zool. xii, p. 304: *C. viridis subrufescens* Berlepsch & Stolzmann = *C. v. facialis* Tschudi; BERLEPSCH & HELLMAYR, J. Ornith. 1905, p. 19.
- Porphyriornis comeri* from Gough Island; CLARKE, Ibis 1905, pp. 258 & 259.
- Gallinula angulata*, breeding in South Somali Land; ERLANGER, J. Ornith. 1905, p. 90.
- Porphyrio porphyrio* and its allies, notes on; id. t. c. pp. 88 & 89.
- P. caeruleus*, in Germany; KLEINSCHMIDT, Falco i, p. 42, footnote.
- Ionornis martinica*, in Massachusetts; HOWE, Auk xxii, p. 319; FARLEY, t. c. p. 409.

Order PODICIPEDIFORMES.

See PEOLA (501).

- Podiceps cristatus*, nesting in Perthshire; WHYTE, Tr. Perthsh. Soc. iv, pp. 83-86.
- Colymbus holbælli*, at Englewood, N. J. in June; HIX, Auk xxii, p. 407.

Order SPHENISCIFORMES.

- Albino penguins; CLARKE, Bull. B. O. C. xv, p. 57: ROTHSCHILD, t. c. p. 57: WILSON, t. c. p. 57: GRANT, t. c. p. 57.
- Anthropornis*, n. g. (fossil), Type *A. nordenskjoldii*, n. sp., Seymour Island; WIMAN, Bull. Geol. Inst. Upsala vi, p. 249, pl. xii, fig. 6.
- Aptenodytes forsteri*, note on; PYCRAFT, Knowledge 1905, p. 65.
- Catarrhactes chrysocome* and its supposed scratching of the rocks with its feet; VALLENTIN, Bull. B. O. C. xv, pp. 48-50.
- Eudyptula minor*, observations on the young; MCCLYMONT, Zoologist 1905, pp. 329-331.
- Pachypteryx*, n. g. (fossil), type *P. grandis*, n. sp., Seymour Island; WIMAN, Bull. Geol. Inst. Upsala vi, p. 250, pl. xii, fig. 3.
- Eospheniscus*, n. g. (fossil), type *E. gunnari*, n. sp., Seymour Island; id. t. c. p. 250, pl. xii, fig. 5.
- Delphiornis*, n. g. (fossil), type *D. larsenii*, n. sp., Seymour Island; id. t. c. pp. 250 & 251, pl. xii, fig. 1.
- Ichtyopteryx*, n. g. (fossil), type *I. gracilis*, n. sp., Seymour Island; id. t. c. pp. 251 & 252, pl. xii, fig. 4.

Order PROCELLARIIFORMES.

- Procellaria pelagica*, breeding on the Bass Rock; CLARKE, Ann. Scott. Nat. Hist. 1905, pp. 55 & 56: on the Flannan Islands; id. t. c. pp. 85 & 86.
- Oceanodroma leucorhoa* nesting on the Flannan Islands; CLARKE, Ann. Scott. Nat. Hist. 1905, pp. 85 & 86: on Long Island; MURPHY, Auk xxii, pp. 205 & 206: *O. socorroensis*, notes on; KAEDING, Condor vii, pp. 108 & 109.
- Puffinus anglorum*, at Bromsgrove, Worcestershire; GROUND, Zoologist 1905, pp. 394 & 395: at Great Yarmouth; PATTERSON, t. c. p. 395: notes on; MACKENZIE, Ann. Scott. Nat. Hist. 1905, pp. 141-143: *P. flavirostris* and *P. kuhli*, notes on; HARTERT, Nov. Zool. xii, p. 97: *P. assimilis* in Kent; TICEHURST, Bull. B. O. C. xvi, pp. 38 & 39.
- Estreleta cervicalis*, figured; BULLER, Suppl. B. New Zealand i, pl. iv.
- Pagodroma nivea*, var. *novegeorgica*? described; REICHENOW, J. f. O. 1905, p. 515.
- Bulweria bulweri*, notes on; SCHMITZ, Ornith. Jahrb. xvi, pp. 66-70.
- Fulmarus glacialis*, notes on the species at St Kilda; MACKENZIE, Ann. Scott. Nat. Hist. 1905, pp. 78-80.
- Daption capensis*, egg of; CLARKE, Bull. B. O. C. xv, p. 57.
- Prion dispar*, n. sp., Heard Island; REICHENOW, J. Ornith. 1905, p. 505.
- Diomedea* and *Thalassogeron*, remarks on the species; PARKIN, 12th Ann. Rep. Hastings Soc. pp. 1-4: *D. exulans* and *D. fuliginosa*, anatomy of; ULRICH, deutsch Tiefsee-Expedition, pp. 321-342, pls. xix-xxii: *D. bulleri* and *D. salvini*, heads figured; BULLER, Suppl. B. New Zealand i, pl. v.
- Thalassogeron* = *Diomedea*; ROTHSCHILD, Bull. B. O. C. xv, p. 45. *T. carteri* or an allied form from Gough Island; id. t. c. p. 45: CLARKE, t. c. pp. 44 & 45: *T. layardi* Salvin = *Diomedea cauta* Gould; GRANT, Ibis 1905, pp. 558 & 559: *T. eximius* on Gough Island; CLARKE, Ibis 1905, p. 256: *Thalassogeron*, sp. incog.; id. t. c. p. 265.
- Phaebetria cornicoides* Hutton distinct from *P. fuliginosa*; GRANT, Ibis 1905, p. 560: notes on; CLARKE, t. c. p. 265.
- Macronectes*, n. nov. pro *Ossifraga* H. & J. nec Wood, 1835; RICHMOND, P. Soc. Washington xviii, p. 76.
- Dyspetornis*, n. nov. for *Hydrornis* Milne-Edw. nec. Blyth; OBERHOLSER, Smithson. Collect. quart. xlvi, p. 60.

Order ALCIFORMES.

- Plautus impennis*, note on a specimen and three eggs in the Thayer Museum; THAYER, Auk xxii, pp. 300-302, pls. xiii & xiv.
- Alca torda* in Saxony; MUSHACKE, Ornith. Monber. xiii, p. 112.
- Uria troile californica*, nesting habits; FINLAY, Condor vii, pp. 165-169.
- Gavia lumme*, in South-eastern Michigan; SWALES & TAVERNER, Auk xxii, p. 88.
- Mergulus alle*, notes on the species in Spitzbergen; INGRAM, Avicult. Mag. (2) iii, pp. 356-358.
- Alle alle*, on the coast of North Carolina; THAYER, Auk xxii, p. 310.

Order LARIFORMES.

- Inca*, Jard. vice *Nænia* Boie; OBERHOLSER, Smithson. Collect. quart. xlvi, p. 61.
- Sterna macrura*, in Herefordshire; LLOYD, Tr. Woolhope Club 1904, p. 147: *S. cantiaca*, note on the breeding in Cumberland; ELLISON, Mem. Manchester Soc. xlix, pp. xiv & xv cum tab.: *S. fluviatilis* and

- S. minuta*, notes on; PATTERSON, Zoologist 1905, pp. 258-262: *S. caspia*, in South Carolina; WAYNE, Auk xxii, p. 395: on the coast of Western Germany; BARTELS, Ornith. Monber. xiii, pp. 73 & 74: *S. fuliginosa*, on the banks of the Lower Loire; BUREAU, Bull. Soc. Ouest France iv, pp. 225-256, pls. ix & x.
- Xema sabinei*, in Montana; CAMERON, Auk xxii, p. 76.
- Larus marinus* and *L. fuscus*, notes on the species at the Bass Rock; EVANS, P. Phys. Soc. Edinb. xvi, pp. 42-51: *L. minutus*, notes on; CHRISTENSEN, Vid. Medd. 1905, pp. 245-250, pl. vi: *L. kumlieni*, in Massachusetts; ALLEN, Auk xxii, p. 205: *L. ridibundus*, anatomy of; REX, Morphol. Jahrb. 1905, pp. 109-347, pls. iii-ix, text-figg. 1-60.
- Leucophaeus scoresbii*, note on; SCLATER, Knowledge 1905, p. 130.
- Rissa tridactyla* feeding on a Blackbird; TEGETMEIER, Bull. B. O. C. xv, pp. 88 & 89.
- Lestris pomatorhinus*, in Italy; SALVADORI, Avicula ix, p. 151.
- Stercorarius pomatorhinus*, in Herefordshire; LLOYD, Tr. Woolhope Club 1904, p. 148: *S. crepidatus*, in Hungary; CSATO, Ornith. Jahrb. xvi, pp. 70 & 71.
- Megalestris antarctica falklandica*, n. subsp., Falkland Is.; LÖNNBERG, Wiss. Erg. Schwed. S. P. Exped. v, Lief. 5, p. 8 (1905).

Order CHARADRIIFORMES.

See PEOLA (501).

- Hematopus palliatus*, note on; REED, Revist. Chilena ix, pp. 49 & 50, fig. 2.
- Vanellus vanellus*, necrosis of the foot; NICHOLS, Irish Natural. xiv, pp. 32 & 33: *V. vulgaris*, nesting habits; KELSO, Zoologist 1905, pp. 108 & 109.
- Eudromias morinellus*, at Fowlness Island; LAVER & CORNISH, Essex Natural. xiv, p. 71.
- Oxyechus vocifera*, in the Hawaiian Islands (Maui); BRYAN, Pap. B. P. Bishop Mus. ii, p. 56.
- Ægialitis vocifera*, note on; KOPMAN, Auk xxii, pp. 209 & 210.
- Recurvirostra americana*, in New Jersey; BRAISLIN, Auk xxii, p. 78.
- Limosa limosa*, note on; LÖNNBERG, Archiv Zool. ii, No. 9, p. 14.
- Catoptrophorus* Bonap. (Ann. Lyc. New York ii, p. 323), is the proper name for the Willet: *Symphemia* Rafinesq. is synonymous with *Ereunetes*; RICHMOND, P. Soc. Washington xviii, p. 75.
- Totanus totanus eurhinus*, note on; LÖNNBERG, Arkiv Zool. ii, pp. 12 & 13: *T. solitarius* nesting (in a tree in old nests of other birds) in N. W. Canada; JOURDAIN, Ibis 1905, pp. 158-161.
- Helodromas ochropus*, note on; LÖNNBERG, Arkiv Zool. ii, p. 13.
- Pavoncella pugnax*, at Camden, Maine; THAYER, Auk xxii, p. 409: in Indiana; YOUNG, t. c. p. 410: North American records; DEANE, t. c. p. 411.
- Bartramia longicauda* in Cornwall; BONHOTE, Bull. B. O. C. xv, p. 32.
- Limonites minutus*, from Mindanao, Philippine Is.; MEARNs, P. Soc. Washington xviii, p. 89.
- Actodromas* vice *Limonites* Kaup (nec Dalman, *Lepid.*); OBERHOLSER, P. U. S. Mus. xxviii, p. 839.
- Tringa canutus*, discovery of the nest and eggs; OTTOSSON, Ornith. Jahrb. xvi, p. 72: nesting in Iceland; id. Ibis 1905, pp. 105 & 106: eggs from the Taimyr Peninsula and New Siberian Islands; BIANCHI, Bull. B. O. C. xv, p. 92: *T. solitaria* Wils. is not a *Helodromas* but a *Rhyacophilus*; OBERHOLSER, P. U. S. Mus. xxviii, p. 838: *T. subarquata*, on the Dee Marshes in February; CUMMINGS, Zoologist 1905, pp. 145 & 146.

- Gallinago australis*, obtained at Lord Howe Island; NORTH, Rec. Austral. Mus. v, p. 338: *G. major*, in Shropshire; POTTER, Field, Sept. 9, 1905; PYCRAFT, Knowledge 1905, p. 255: in Shetland; id. t. c. p. 64: *G. sabinei*, in Cambridgeshire; id. t. c. p. 15.
- Scolopax sabinci* in Cambridgeshire; PYCRAFT, Ibis 1905, pp. 289-291.
- Rostratula bengalensis* nesting in S. Somali Land; ERLANGER, J. Ornith. 1905, pp. 78 & 79.
- Phalaropus hyperboreus*, in Shropshire; FORREST, Rec. Caradoc Club xiv, p. 36: *P. fulicarius* in Dalmatia; RÖSSLER, Ornith. Monber. xiii, p. 74.
- Hydralector gallinaceus*, from Southern Mindanao, Philippine Is.; MEARNs, P. Soc. Washington xviii, p. 89.
- Ortyxclus meiffreni*, habits; A. L. BUTLER, Ibis 1905, pp. 386 & 387.
- Pluvianus aegyptius*, breeding habits; PYCRAFT, Knowledge 1905, p. 229: its eggs; BUTLER, Ibis 1905, pp. 399 & 400.
- Cursorius gallicus* and allies; ERLANGER, J. Ornith. 1905, pp. 57 & 58, Taf. 1, *C. gallicus littoralis*, n. subsp., S. Somali Land; id. t. c. p. 58, Taf. 1, fig. 3: *C. somalensis littoralis*, n. subsp., S. Somali Land; ERLANGER, J. Ornith. 1905, p. 58, Taf. 1, fig. 3; REICHENOW, Vög. Afrikas iii, Nachtrag iii, p. 801.
- Rhinoptilus*, synopsis of the species, *R. africanus sharpei*, n. subsp.; id. t. c. pp. 60 & 61: in Italy; GRIFFOLI, Avicula ix, p. 159: *R. bisignatus hartingi* from Somali Land is distinct from typical *R. bisignatus*; OBERHOLSER, P. U. S. Mus. xxviii, p. 839.
- Glareola fusca limbata* is the form of Pratincole in N. E. Africa and W. Africa; REICHENOW, Vög. Afrikas iii, p. 800.
- Ædicnemus*, notes on the African species; ERLANGER, J. Ornith. 1905, pp. 68-74: *Æ. ædicnemus*, near Lahej, S. Arabia; id. t. c. p. 70: *Æ. gularis*, distinct from *Æ. vermiculatus*; id. t. c. pp. 71 & 72: *Æ. capensis dodsoni*, notes on; id. t. c. pp. 73 & 74: *Æ. capensis* var. n. *psammochrous*, Togo Land: var. n. *damarensis*, Damara Land; REICHENOW, Vög. Afrikas iii, Nachtr. p. 801.
- Ocyplanus*, n. gen. [fossil] type *O. præses*, n. sp., Pleistocene of Interior of South Australia; DE VIS, Ann. Queensland Mus. No. 6, pp. 8 & 9, pl. i, fig. 5 b.
- Otis tarda korejawi*, n. subsp., Turkestan; SARUDNY, Ornith. Monber. xiii, pp. 163 & 164: *O. tetrax*, near Eisleben; KLEINSCHMIDT, Ornith. Monber. xiii, p. 64: *O. canicollis canicollis* figured, Taf. ii, fig. 1: *O. c. somaliensis*, n. subsp., N. Somali Land; ERLANGER, J. Ornith. 1905, p. 82, Taf. ii, fig. 2 = *O. canicollis*; REICHENOW, Vög. Afrikas iii, Nachtr. i, p. 802: *O. c. erlangeri*, n. sp., S. Somali Land to Iringa, E. Africa; id. t. c. : *O. macqueeni*, note on; HEATH, J. Bombay Soc. xvi, pp. 372 & 373.
- Sypheotis bengalensis*, its winter plumage; WALL, J. Bombay Soc. xvi, pp. 388 & 389.
- Eupodotis arabs* in the forest of Marmora, Marocco; MEADE-WALDO, Ibis 1905, pp. 161-164: notes on; BUTLER, Ibis 1905, pp. 392 & 393.
- Lissotis notophila*, n. sp., Natal; OBERHOLSER, P. U. S. Mus. xxviii, p. 836: *L. lovati* Grant, is the true *L. melanogaster* (Rüpp.); id. t. c. p. 836.

Order GRUIFORMES.

- Grus nesiotes*, n. sp., Isle of Pines; BANGS & ZAPPEY, Amer. Natural. xxxix, pp. 193 & 194.
- Antigone sharpei*, from Luzon; MCGREGOR, Bureau Govt. Labs. Manila, No. 34, p. 29.
- Rhinochetus jubatus*, notes on; CAMPBELL, Emu iv, pp. 166-168, pl. xii.

Order ARDEIFORMES.

- Ibis* (?) *conditus*, n. sp. [fossil]. Pleistocene of Interior of South Australia ; DE VIS, Ann. Queensland Mus. No. 6, pp. 10 & 11, pl. ii, fig. 2 *a, b*.
- Theristicus olivaceus* and its allies, *T. cupreipennis*, *T. splendidus*, *T. rarus*, notes on ; REICHENOW, Vög. Africas iii, Nachtrag, pp. 803-805, cum figg.
- Comatibis eremita*, eggs described ; ROTHSCHILD, Bull. B. O. C. xvi, pp. 15 & 16.
- Plegadis falcinellus*, notes on ; SCLATER, Knowledge 1905, pp. 48 & 49 : in Herefordshire ; LLOYD, Tr. Woolhope Club 1904, p. 148 : from Mindanao ; MEARNs, P. Soc. Washington xviii, p. 89.
- Ciconia alba*, distribution in the Rhine Provinces during the breeding season ; SCHUSTER, Jahrb. nassau. Ver. 58, pp. 191-194 : at North Wotton ; PYCRAFT, Knowledge 1905, p. 255 : nesting in Bavaria ; GENGLER, Verh. Orn. Ges. Bayern v, pp. 45-64.
- Dissoura*, 4 species recognised, *D. neglecta*, n. sp., Java, Sumbawa, Lombok, Celebes, Philippines ; FINSCH, Ornith. Monber. 1904, p. 94 : id. Notes Leyden Mus. xxvi, pp. 150-154 (1905).
- Xenorhynchopsis*, n. gen. [fossil]. Type, *X. tibialis* and *X. minor*, n. spp. Pleistocene of Interior of South Australia ; DE VIS, Ann. Queensland Mus. No. 6, pp. 9 & 10, pl. i, figg. 6 *a, b, c*, pl. ii, figg. *a, b*.
- Xenorhynchus nanus*, n. sp. [fossil]. Pleistocene of Interior of South Australia ; id. t. c. p. 9.
- Mycteria senegalensis*, notes on habits ; BUTLER, Ibis 1905, pp. 379-381, cum fig. (Juv.).
- Balaciceps rex*, notes on habits ; id. t. c. pp. 373-377.
- Ardea repens*, n. sp., Isle of Pines ; BANGS & ZAPPEY, Amer. Natural. xxxix, p. 186.
- Herodias timoriensis* from Mindanao, Philippine Islands ; MEARNs, P. Soc. Washington xviii, pp. 89 & 90.
- Florida caerulea* in Connecticut ; MCCOOK, Auk xxii, pp. 76 & 77 : in Massachusetts ; ALLEN, t. c. p. 77 : HORN, t. c. p. 319.
- Nycticorax manillensis*, note on ; MCGREGOR, Bureau Govt. Labs. Manila, No. 34, pp. 10 & 11 : *N. griseus* at Pevensy, Sussex ; NICOLL, Zoologist 1905, p. 267.
- Butorides javanica*, note on ; MCGREGOR, Bureau Govt. Labs. Manila, No. 34, p. 11, pl. viii.
- Ardetta neoxena* from Michigan ; TAVERNER, Auk xxii, pp. 77 & 78.
- Zebrilus pumilus*, notes on plumage of sexes ; HELLMAYR, Ornith. xiii, pp. 56-58.
- Nannocnus ijimai*, n. sp., Islands between Kiushu and Formosa ; OGAWA, Annot. zool. Japon. v, pp. 215 & 216, pl. xi.
- Botaurus stellaris* in Ireland ; JOHNSTON, Irish Natural. xiv, p. 119 : *B. stellaris* from Luzon ; MCGREGOR, Bureau Govt. Labs. Manila, No. 34, p. 29.

Order PHENICOPTERIFORMES.

- Phænicopterus ruber*, notes on the life history ; CHAPMAN, Bull. Amer. Mus. xxi, pp. 53-77, text-figg. 1-16 : former status in the Lesser Antilles ; CLARK, Auk xxii, pp. 318 & 319 : breeding habits ; CHAPMAN, Century Magazine, December 1904 : PYCRAFT, Knowledge 1905, p. 15.

Order PALAMEDEIFORMES.

- Chauna cristata*, breeding in the Zoological Gardens, SCLATER, Ibis 1905, p. 143.

Order ANSERIFORMES.

- MILLAIS, J. G., on hybrid ducks. Bull. B. O. C. xv, p. 89: BONHOTE, t. c. pp. 88 & 89.
- Archæocygnus*, n. gen. [fossil]. Type *A. lacustris*, n. sp. Pleistocene of Interior of South Australia; DE VIS, Ann. Queensland Mus. No. 6, pp. 11-13, pl. iii, figg. 2 a, b, 3, 4, 6 a, b, 7 a, b.
- Sarcidiornis melanonota*, figured; BAKER, J. Bombay Soc. xvi, pl. xxii.
- Chenopsis nanus*, n. sp. [fossil]. Pleistocene of Interior of South Australia; DE VIS, Ann. Queensland Mus. No. 6, pp. 13 & 14, pl. ii, figg. 3, 5-7.
- Bernicla leucopsis*, near Warkworth; PYBUS, Tr. Soc. Northumb. (2) i, p. 301.
- Branta bernicla leucogastra*, note on the nest and eggs; THAYER, Auk xxii, p. 408.
- Chen rossi* breeding in confinement; BLAAUW, Ibis 1905, pp. 137 & 138.
- Nettion egrensis*, n. sp. [fossil]. Pleistocene of Interior of South Australia; DE VIS, Ann. Queensland Mus. No. 6, p. 16, pl. iv, fig. 9.
- Casarca casarca* in Dalmatia; RÖSSLER, Ornith. Monber. xiii, p. 74.
- Tadorna radjah rufitergum*, n. subsp., Arnhem Land, N. Australia; HARTERT, Nov. Zool. xii, p. 205.
- Anas (Nettion) strenua*, n. sp. [fossil]. Pleistocene of Interior of South Australia; DE VIS, Ann. Queensland Mus. No. 6, p. 15, pl. iv, fig. 6: *A. gracilipes*, n. sp. [fossil]. Pleistocene of Interior of South Australia; DE VIS, t. c. pp. 14 & 15, pl. iv.
- Anas boscas*, nesting in a tree; SMITH, Irish Natural. xiv, p. 200: nesting in a tree (60 feet from the ground); FISHER, Wilts. Mag. xxxiv, p. 109: *A. boscas spilogaster*, notes on; SCHIOLER, Vid. Medd. 1905, pp. 127-148, 239 & 240, pls. ii-iv: *A. superciliosa pelewensis* is the form inhabiting the Pelew Islands, Samoa, Fiji, and the Solomon Islands, in place of the true *A. superciliosa* from Australia and New Zealand; ROTHSCHILD & HARTERT, Nov. Zool. xii, p. 248: *A. boscas* × *A. pæcilorhyncha*; BONHOTE, P. Zool. Soc. London 1905, Vol. i, pp. 147-149: *A. superciliosa* × *Dafila acuta*; id. t. c. pp. 147-149.
- Chaulelasmus streperus*, near Springfield, Mass.; MORRIS, Auk xxii, p. 207.
- Mareca penelope* at Sandusky, Ohio; DEANE, t. c. p. 206.
- Spatula clypeata*, a brood of albinos; id. t. c. pp. 408 & 409: figured; BAKER, J. Bombay Soc. xvi, pl. xxi: *S. clypeata* × *Querquedula discors*; DEANE, Auk xxii, p. 321.
- Netta rufina* in Holland; OORT, Notes Leyden Mus. xxvi, pp. 196-199.
- Fuligula cristata* breeding on Lough Conn; WARREN, Irish Natural. xiv, p. 165.
- Aythya vallisneria* in Colorado; FELGER, Auk xxii, p. 421.
- Nyroca effodiata*, n. sp. [fossil]. Pleistocene of Interior of South Australia; DE VIS, Ann. Queensland Mus. No. 6, pp. 15 & 16, pl. iv.
- Nyroca nyroca* from Tianshan; LÖNNBERG, Arkiv Zool. ii, No. 9, p. 3: *N. africana*, figured; BAKER, J. Bombay Soc. xvi, pl. xx.
- Ædemia nigra* breeding in Ireland; TREVELYAN, Field, July 15, 1905: PYCRAFT, Knowledge 1905, p. 207: *Æ. deglandi* and *Æ. perspicillata*, in South-Eastern Michigan; SWALES & TAVERNER, Auk xxii, p. 88.
- Somateria mollissima* and its allies; ROTHSCHILD, Bull. B. O. C. xv, pp. 43 and 44: blackish V-shaped markings on the throat; SAUNDERS, t. c. pp. 69 & 70: in the Adriatic; ANGELIN, Boll. Soc. Ital. (2) vi, pp. 101-103.
- S. v-nigrum* in the Orkney Islands; STUBBS, Bull. B. O. C. xv, pp. 32 & 33; CLARKE, Zoologist, p. 74: STUBBS, t. c. pp. 142 & 143: ROBINSON, t. c. p. 143: OLDHAM, t. c. p. 185.

- Biziura lobata*, osteology; PYCRAFT, Bull. B. O. C. xv, p. 100: *B. exhumata*, n. sp. [fossil]. Pleistocene of Interior of South Australia; DE VIS, Ann. Queensland Mus. No. 6, p. 14, pl. iv, figg. 1-3.
Mergus albellus, notes on; BONHOTE, Avicult. Mag. (2) iii, pp. 120-124.
Merganser castor, note on; PRIMROSE, J. Bombay Soc. xvi, pp. 378 & 379:
M. australis, figured; BULLER, Suppl. B. New Zealand ii, pl. vi.

Order PELECANIFORMES.

- Phalacrocorax*, notes on the New Zealand Cormorants and allied forms. Key to the species; GRANT, Ibis 1905, pp. 566-576: *P. brandti*, notes on the nesting; FINLAY, Condor vii, pp. 161-165: *P. gregorii* and *P. vetustus*, n. spp. [fossil]. Pleistocene of Interior of South Australia; DE VIS, Ann. Queensland Mus. No. 6, pp. 18-25, pl. v-ix,
Plotus laticeps, n. sp. [fossil]. Pleistocene of Interior of South Australia; DE VIS, t. c. pp. 17 & 18, pl. vi.
Sula bassana in Italy; FOA, Avicula ix, pp. 5-8; SALVADORI, t. c. pp. 33 & 34.
Pelecanus sula Gm. = *Sula piscator* vice *Sula sula* auct. (= *Sula leucogastra*, Bodd.); NELSON, P. Soc. Washington xviii, pp. 121 & 122.
Sula etesiaca, n. sp., Gorgona Island, Colombia; THAYER & BANGS, Bull. Mus. Harvard xlvi, pp. 92 & 93.
Fregata aquila at San Pablo Bay, California; GIFFORD, Auk xxii, p. 408.
Phaëthon americana at Phoenix, Arizona; BRENINGER, t. c. p. 408.
Pelecanus grandiceps and *P. proavus*, n. spp. [fossil]. Pleistocene of Interior of South Australia; DE VIS, Ann. Queensland Mus. No. 6, pp. 16-18, pl. v, figg. 1-5: *P. sharpei* from the Lower Congo; DUBOIS, Ann. Mus. Congo i, p. 21: *P. fuscus*, arterial system of the brain; BEDDARD, P. Zool. Soc. London 1905, i, p. 109, text-fig. 17.

Order CATHARTIFORMES.

- Sarcorhamphus patruus*, n. sp. [fossil], Tarija, Bolivia; LÖNNBERG, Bull. Geol. Inst. Upsala vi, pp. 1-11, text-figg. 2 & 4.
Cathartes aura, in Maine; DEANE, Auk xxii, pp. 78 & 79: in Michigan; SWALES, t. c. p. 413: in Western Massachusetts; MORRIS, t. c. p. 413: *C. a. septentrionalis* (Wied.) is the North American species, true *C. aura* (Linn.), with which *C. burrovianus* Cassin is identical, being the southern form; NELSON, P. Soc. Washington xviii, pp. 123-125.
Catharista urubu brasiliensis (Bp.) is distinct from the northern form, from the United States; ALLEN, Bull. Amer. Mus. xxi, pp. 275 & 276.

Order ACCIPITRIFORMES.

- Classification of the Accipitres; SUSHKIN (674).
 Eggs of the birds of Europe; DRESSER (179).
Circus cineraceus, at Rainworth, Notts; WHITAKER, Zoologist 1905, p. 266.
Parabuteo unicinctus, from Margarita Island; CLARK, Auk xxii, p. 79.
Micrastur melanoleucus, in Sinaloa, note on; MILLER, Bull. Amer. Mus. xxi, p. 345.
Melierax niger, a melanistic form of *M. gabar*; A. L. BUTLER, Ibis 1905, p. 369.
Astur palumbarius, notes on; PILLEY, Tr. Woolhope Club 1904, pp. 361 & 362: *A. fasciatus* Vig. & Horsf. vice *A. approximans* Vig. & Horsf.;

- HARTERT, Nov. Zool. xii, p. 207 : *A. sphenurus* from Sierra Leone ; KEMP, Ibis 1905, p. 220.
- A. etorques rubianæ*, n. subsp., Solomon Islands (Rubiana, Rendova, Gizo) ; ROTHSCHILD & HARTERT, Nov. Zool. xii, p. 250 : *A. e. bougainvillei*, n. subsp., N. Solomon Islands, Shortland group, Bougainville Island ; iid. t. c. p. 251 : *A. holomelas* Sharpe, *A. woodfordi* Sharpe, *A. versicolor* Ramsay = *A. albigularis* (Gray) ; ROTHSCHILD & HARTERT, Nov. Zool. xii, p. 249 : *A. sparsimfasciatus aceletus*, n. subsp., Taveta, Brit. E. Africa ; OBERHOLSER, P. U. S. Mus. xxviii, p. 829.
- Accipiter velox rufilatus* Ridgw. = *Nisus pacificus* Less., *Accipiter velox pacificus* (Less.) the correct name ; NELSON, P. Soc. Washington xviii, p. 122 : *A. buettikoferi* from Sierra Leone ; KEMP, Ibis 1905, p. 220.
- Buteo vulgaris*, curious nesting habit ; VAN KEMPEN, Bull. Soc. zool. France xxx, p. 151.
- B. zimmermannæ*, in Holland ; SNOUCKAERT, Ornith. Monber. xiii, p. 58 : *B. borealis calurus*, nesting habits ; FINLAY, Condor vii, pp. 1-7 cum figg. : *B. buteo insularum* Floerike, in the Azores ; HARTERT, Nov. Zool. xii, pp. 111 & 112.
- Rupornis magnirostris*, nest and eggs described ; ALLEN, Bull. Amer. Mus. xxi, p. 280.
- Urubitinga subtilis*, n. sp., Gorgona Is., Colombia ; THAYER & BANGS, Bull. Mus. Harvard xlvi, p. 94 : *U. ridgwayi* and *U. anthracina*, in S. Sinaloa ; MILLER, Bull. Amer. Mus. xxi, pp. 345 & 346 : *U. anthracina*, from the Island of Santa Lucia, West Indies ; CLARK, Auk xxii, p. 210 : *U. gundlachii* (Cabanis), is a distinct species ; BANGS, Auk xxii, pp. 307-309.
- Taphæetus lacertosus*, n. sp. [fossil]. Pleistocene of Interior of S. Australia ; DE VIS, Ann. Queensland Mus. No. 6, pp. 4-6, pl. i, figg. 1 & 2.
- Aquila chrysaetus*, observations on the nesting in Montana ; CAMERON, Auk xxii, pp. 158-167, pls. ii-vi : near Ottawa ; EIFRIG, t. c. p. 310.
- Hieraëtus fasciatus*, its occurrence in Cutch ; RADCLIFFE, J. Bombay Soc. xvi, pp. 507-511.
- Eutolmitetus spilogaster* from the Zambesi ; SCLATER, Bull. B. O. C. xv, pp. 67 & 68.
- Asturæetus*, n. gen. [fossil]. Type *A. furcillatus*, n. sp., Pleistocene of Interior of S. Australia ; DE VIS, Ann. Queensland Mus. No. 6, pp. 6 & 7, pl. i, fig. 3.
- Circæetus rufulus*, n. sp., German East Africa ; REICHENOW, Ornith. Monber. xiii, pp. 179 & 180.
- Pithecophaga jefferyi* in Mindanao ; MEARNs, P. Soc. Washington xviii, p. 73.
- Halidæetus albicilla*, in the Kurische Nehrung, on migration ; THIENEMANN, Ornith. Monber. xiii, pp. 7 & 8 : in British Columbia ; BISHOP, Auk xxii, pp. 79 & 80 : in South Wilts. ; FISHER, Wiltshire Mag. xxxiv, p. 109 : *H. leucoryphus* Pall., in Sicily ; DE STEFANI-PEREZ, Natural. Sicil. xviii, pp. 51 & 52 : id. Avicula ix, pp. 157 & 158.
- Milvus milvus*, nesting in Wales in 1905 ; MEADE-WALDO, Bull. B. O. C. xvi, pp. 9 & 10, 97 & 98 : *M. govinda*, from the Tianshan range ; LÖNNBERG, Arkiv Zool. ii, No. 9, p. 5 : *M. affinis*, in N.E. Africa is *M. ægyptius* juv. ; REICHENOW, J. Ornith. 1905, p. 427.
- Pernis apivorus*, nesting in Prov. Roma, Italy ; CHIGI, Boll. Soc. Ital. (2) vi, pp. 93 & 94 : Avicula ix, pp. 41 & 42.
- Baza gracilis*, n. sp. [fossil]. Pleistocene of Interior of South Australia ; DE VIS, Ann. Queensland Mus. No. 6, pp. 7 & 8, pl. i, fig. 4.
- Microhierax melanoleucus*, breeding in S. E. China ; LA TOUCHE & RICKETT, Ibis 1905, pp. 56 & 57.
- Falco peregrinus*, notes on ; KLEINSCHMIDT, Falco i, pp. 1-8 : note on ;

- APLIN, Zoologist 1905, pp. 184 & 185: migration in 1904-1905; KLEINSCHMIDT, Falco i, pp. 51 & 52: *F. barbarus germanicus*, figured; id. t. c. Taf. i: *F. peregrinus leucogenys*, near Eisleben; id. Ornith. Monber. xiii, p. 64: *F. mexicanus*, note on; FUERTES, Condor vii, pp. 35 & 36 cum tab: *F. subbuteo*, note on; ALTOBELLO, Avicula ix, pp. 152-154: *F. s. cyanescens*, n. subsp., Bainigol, Tianshan; LÖNNBERG, Arkiv Zool. ii, No. 9, pp. 6 & 7: *F. severus*, nesting in Upper Burma; MACDONALD, J. Bombay Soc. xvi, p. 518: its allies, remarks on; ROTHSCHILD & HARTERT, Nov. Zool. xii, pp. 252 & 253: *F. aesalon*, nesting in Breconshire; SWAINSON, Zoologist 1905, pp. 266 & 267: nesting in Derbyshire; FOX, t. c. p. 267; *F. rusticola*, in Wisconsin; SNYDER, Auk xxii, pp. 413 & 414: *F. candicans*, in Co. Donegal; PATTERSON, Irish Natural. xiv, p. 119.
- Harpa australis*, distinct from *H. novæ zealandiæ*; GRANT, Ibis 1905, pp. 576-579.
- Cerchneis tinnunculus*, note on; LÖNNBERG, Arkiv Zool. ii, pp. 5 & 6: *C. ardesiaca*, from the Victoria Nyanza; GRANT, Ibis 1905, p. 211: *C. cenchroides*, in the Djampang district, W. Java; FINSCH, Ornith. Monber. xiii, p. 190.
- Pandion haliaetus carolinensis*, former status in the Lesser Antilles; CLARK, Auk xxii, pp. 318 & 319.

Order STRIGIFORMES.

- Asio maculosus amerimmas*, n. subsp., Natal to German E. Africa; OBERHOLSER, P. U. S. Mus. xxviii, pp. 856 & 857: *A. otus*, laying in old nests of *Pica pica* and *Cerchneis tinnunculus*; SCHUSTER, Ornith. Monber. xiii, pp. 111 & 112: notes on; GYNGELL, Zoologist 1905, pp. 183 & 184; MOFFAT, t. c. pp. 233 & 234; WARREN, t. c. pp. 234-236, 264-266; HARVIE-BROWN, t. c. pp. 264, 313; OLDHAM, t. c. pp. 311-313; GURNEY, t. c. p. 392: *O. sylvestris*, from the Tertiary formations of Mainz; SCHUSTER, Jahrb. Nassau. Ver., Jahrg. lvi, pp. 33-43, 1903: *A. accipitrinus*, from the Pleistocene of Derbyshire; ARNOLD-BEMROSE & NEWTON, Quart. J. Geol. Soc. 61, p. 56.
- Ketupa semenowi*, n. sp., Arabistan, W. Persia; SARUDNY, Ornith. Jahrb. xvi, pp. 141 & 142.
- Bubo bubo nikolskii*, n. subsp., Arabistan; id. t. c. p. 142.
- B. magellanicus deserti*, n. subsp., Joazeiro, Brazil; REISER, Anz. Ak. Wiss. 1905, No. xviii, pp. 324.
- Hukua leucosticta* (Hartl.), figured; DUBOIS, Ann. Mus. Congo i, p. 19, pl. xi.
- Otus romblonis*, n. sp., Romblon Is., Philippines; MCGREGOR, Bureau Govt. Labs. Manila, No. 25, pp. 12 & 13.
- Pisorhina scops turanica*, subsp. n., Transcaspia and Buchara; LONDON, Ornith. Monber. xiii, pp. 129 & 130.
- Sceloglaux rufifacies*, figured; BULLER, Suppl. B. New Zealand ii, pl. vii.
- Ninox rufa*, distinct from *N. strenua*; HARTERT, Nov. Zool. xii, p. 210.
- Syrnium aluco*, removing its young; TREVOR-BATTYE, Bull. B. O. C. xv, p. 78: notes on; SCHAFFER, Ornith. Jahrb. xvi, p. 209: *S. sanctinicolai*, n. sp., W. Persia; SARUDNY, Ornith. Monber. xiii, p. 49: *S. aluco mauritanicum*, n. subsp., Marocco and Algeria; WITHERBY, Bull. B. O. C. xv, pp. 36 & 37: notes on; id. Ibis 1905, pp. 196 & 197.
- Ciccaba squamulata*, in S. Sinaloa; MILLER, Bull. Amer. Mus. xxi, p. 347.
- Athene noctua*, white variety; BLAAUW, Bull. B. O. C. xvi, p. 41: *A. chiaradia*, the colour of the iris; BALDUCCI, Monit. Zool. ital. xvi,

- pp. 258-272: *A. spilogaster somaliensis*, n. subsp., Somali Land; REICHENOW, Vög. Afrikas iii, p. 822.
- Asio accipitrinus*, removing its young; TREVOR-BATY, Bull. B. O. C. xv, p. 78: *A. a. sandvicensis*, egg described; BRYAN, Pap. B. P. Bishop Mus. ii, pp. 49 & 50.
- Glaucidium phalaenoides ridgwayi*, in S. Sinaloa, remarks on; MILLER, Bull. Amer. Mus. xxi, pp. 346 & 347: *G. phalaenoides* is divisible into two geographical races; id. t. c. pp. 346 & 347.
- Strix flammea gracilirostris*, n. subsp., E. Canary Is.; HARTERT, Bull. B. O. C. xvi, pp. 31 & 32: *S. novæ-hollandiæ* and *S. delicatula*, notes on: *S. castanops*; CAMPBELL, Emu iv, pp. 126-128: *S. capensis*, figured; IVY, Journ. S. Afr. Orn. Union i, pl. iv: *S. cabræ*; DUBOIS, Syn. Av. ii, p. 900 (1902): figured; id. Ann. Mus. Congo i, p. 20, pl. xii: *S. pratincola*, nestlings and young, figured; ?Cassinia 1904, pl. 3.

Order PSITTACIFORMES.

- The West Indian Parrots; CLARK, Auk xxii, pp. 337-344.
- Heterochrosis in Australian *Psittaci*; NORTH, Rec. Austral. Mus. v, pp. 265-268.
- SALVADORI, T. Notes on the Parrots, Part II, Ibis 1905, pp. 535-542.
- SALVADORI, T. Genera Avium, Parts III, *Stringopidæ*, IV, *Nestoridæ*, v, *Cacatuidæ*, 1905.
- Stringops habroptilus*, figured; SALVADORI, Gen. Av. Part III, pl. to *Stringopidæ*, figg. 1, 1 a-1 e.
- Yellow variety of *Stringops*, head figured; id. t. c. pl. to fig. 2.
- Nestor septentrionalis*, figured; id. t. c. Part IV, pl. figg. 1, 1 a: *N. notabilis*, figg. 2, 2 a: *N. productus*, fig. 3: *N. meridionalis*, figg. 4, 4 a, 4 b: *N. esslingi*, figured; BULLER, Suppl. B. New Zealand ii, pl. viii.
- Cacatua goffini*, figured; SALVADORI, t. c. Part v, pl. to *Cacatuidæ*, figg. 1, 1 b: *C. ducorpsi*, head figured; id. t. c. fig. 2: *C. triton*, head figured; id. t. c. pl. ii, fig. 2: *C. roscicapilla*, head figured; id. t. c. pl. ii, fig. 3.
- Calyptrorhynchus banksi*, head figured; id. t. c. fig. 3.
- Microglossus aterrimus*, head figured; id. t. c. fig. 4.
- Callocephalum galeatum*, head figured; id. t. c. pl. i, fig. 5.
- Calopsittacus novæ hollandiæ*, head figured; id. t. c. pl. ii, figg. 1, 1 a, 1 b.
- Licmetis nasica*, head figured; id. t. c. pl. ii, fig. 4.
- Chalcopsittacus ater* in confinement; JOHNSTONE, Avicult. Mag. (2) iii, pp. 147-149, cum tab.
- Trichoglossus nigrogularis*, figured; HARDING, Avicult. Mag. (2) iv, pl. to p. 21: *T. forsteni* breeding in confinement; MICHELL, t. c. pp. 24 & 25.
- Charmosynopsis placentis pallidior*, n. subsp., Bougainville Island, Solomon Archipelago, with notes on *C. placentis* and *C. subplacens*; ROTHSCHILD & HARTERT, Nov. Zool. xii, p. 253.
- Anodorhynchus purpurascens*, nom. n., Guadeloupe Island, W. I., extinct; ROTHSCHILD, Bull. B. O. C. xvi, p. 13: *A. martinicus*, nom. n., Martinique, W. I.; id. t. c. p. 14.
- Ara*, on the species of the Greater Antilles; CLARK, Auk xxii, pp. 345-348: *A. hyacinthina*, arterial system of the brain; BEDDARD, P. Zool. Soc. London 1905, pp. 105-107, text-fig. 16: *A. guadeloupensis*, an extinct species in Guadeloupe (?), Dominica and Martinique; CLARK, Auk xxii, p. 272: *A. erythrocephala*, nom. n., Jamaica, extinct; ROTHSCHILD, Bull. B. O. C. xvi, p. 14; *A. gossei*, nom. n., Jamaica; id. t. c. p. 14.
- Conurus*, distribution of the species in the West Indies; CLARK, Auk

- xxii, pp. 310-312: *C. labati*, nom. n., Guadeloupe Island, W. I., extinct; ROTHSCHILD, Bull. B. O. C. xvi, p. 13.
- Amazona martinicana*, new name for the Martinique Parrot; CLARK, Auk xxii, p. 343: *A. albifrons nana*, n. subsp., S. Sinaloa; MILLER, Bull. Amer. Mus. xxi, p. 349.
- Chrysotis augusta*, egg; MUNT, Bull. B. O. C. xv, p. 51: *C. guildingi*, note on its approaching extinction; NICOLL, op. cit. xvi, p. 23.
- Deropterus accipitrinus fuscifrons*, n. subsp., Parà; HELLMAYR, Nov. Zool. xii, p. 303.
- Prionopsittacus pileatus*, ♂ ♀ figured; ASTLEY, Avicult. Mag. (2) iii, pl. to p. 351.
- Pionites vice Caica*; HELLMAYR, Nov. Zool. xii, p. 302: *P. leucogaster* from Parà; id. t. c. p. 303.
- Polytelis alexandrae*, note on; ASTLEY, Avicult. Mag. (2) iii, pp. 248 & 249.
- Spathopterus alexandrae*, distribution of; KEARTLAND, Victorian Natural. xxii, pp. 83 & 84.
- Ptistes erythropterus*, note on; id. t. c. pp. 142-144.
- Bolbopsittacus mindanensis*, n. sp., S. E. Mindanao; GRANT, Bull. B. O. C. xvi, p. 17 (= *B. mindanensis* Steere; id. t. c. p. 36).
- Loriculus galgulus* on Cagayan Sulu, Philippine Islands; MEARN, P. Soc. Washington xviii, p. 90.
- L. bournsi*, n. sp., Sibuyan Island, Philippines; MCGREGOR, Bureau Govt. Labs. Manila, No. 25, p. 16.
- Cyanorhamphus unicolor*, figured; BULLER, Suppl. B. New Zealand ii, pl. ix.
- Platycercus xanthogenys* Salvad. notes on; HARTERT, Nov. Zool. xii, p. 212.
- Neophema bourkei*, figured; ASTLEY, Avicult. Mag. (2) iii, pl. to p. 239.
- Ognorhynchus* Gray vice *Gnathositta* Cab.; OBERHOLSER, Smithsonian Collect. quart. Vol. 48, p. 61.
- Psittichas* Less. vice *Dasyptilus*; id. t. c. p. 61.
- Euphema* Wagl. vice *Nanodes* Vig. and Horsf.; id. t. c. p. 61.

Order CORACIIFORMES.

Sub-order PODARGI.

- Podargus papuensis* and allied species, notes on; HARTERT, Nov. Zool. xii, p. 216.
- Podargus*, notes on the Australian species; id. t. c. p. 216.
- Ægotheles rufa* (olim *rufescens*) Hall = *Æ. leucogaster* Gould; id. t. c. pp. 216 & 217: *Æ. novæ-hollandiæ*, note on; LEGGE, Emu iv, p. 173.

Sub-order CORACIÆ.

- Coracias caudatus* and its allies; ERLANGER, J. Ornith. 1905, pp. 458-460.
- Eurystomus afer* and its allies; NEUMANN, t. c. pp. 184-186.
- E. afer æthiopicus*, n. subsp., Shoa to Kaffa and Gelo River; id. t. c. p. 184: *E. afer suahelicus*, n. subsp., E. Africa; id. t. c. p. 186: *E. afer pulcherrimus*, n. subsp., Angola; id. t. c. p. 186: *E. afer æthiopicus* Neum. t. c. p. 184 = *E. rufobuccalis*; REICHENOW, Vög. Afrikas iii, Nachtrag, p. 825: *E. calonyx* breeding in S. E. China; LA TOUCHE & RICKETT, Ibis 1905, pp. 48 & 49.

Sub-order HALCYONES.

- Pelargopsis gouldi*, nesting habits; MCGREGOR, Bureau Govt. Labs. Manila, No. 34, p. 12, pl. ix.
- Alcedo ispida salomonensis*, n. subsp., Solomon Archipelago (Gizo, Rendova, etc.) and Duke of York Island (?); ROTHSCHILD & HARTERT, Nov. Zool. xii, p. 255: *A. meninting* and allied forms; FINSCH, Notes Leyden Mus. xxvi, pp. 46-49.
- Ceyx dillwynni* and *C. rufidorsa*, notes on; id. t. c. pp. 49-53: *C. lepida collectoris* from Central Solomon Islands and *C. lepida nigromaxilla*, n. subsp., from Guadalcanar Island; ROTHSCHILD & HARTERT, Nov. Zool. xii, p. 256: *C. goodfellowi*, n. sp., S. E. Mindanao; GRANT, Bull. B. O. C. xvi, p. 17: *C. cyanopectus*, sexual differences; MCGREGOR, Bureau Govt. Labs. Manila, No 34, p. 13, pl. x.
- Halcyon gularis*, nesting habits; id. t. c. pp. 13 & 14, pl. xi: *H. semicæruleus* and its allies; ERLANGER, J. Ornith. 1905, pp. 446 & 447: *H. albiventris orientalis* and *H. senegaloides* in S. Somali Land; id. t. c. p. 447: *H. semicæruleus* and its three allied forms; NEUMANN, t. c. pp. 189 & 190: *H. s. centralis*, n. subsp., Victoria Nyanza; id. t. c. p. 189: *H. bougainvillei*, figured; ROTHSCHILD & HARTERT, Nov. Zool. xii, p. 256, pl. x: *H. tristrami alberti*, n. subsp., Solomon Islands (Rendova, Gizo, Bougainville); iid. t. c. pp. 256, 257.

Sub-order BUCEROTES.

- Bucorvus abyssinicus* nesting in a baobab tree at Rosaires; BUTLER, Ibis 1905, p. 353.
- Penelopides panini*, nest and eggs described; MCGREGOR, Bureau Govt. Labs. Manila, No. 25, pp. 25-27, pls. viii & ix.
- Lophoceros melanoleucus* and its allies; NEUMANN, J. Ornith. 1905, pp. 187 & 188: *L. m. geloensis*, n. subsp., Upper Gelo River, N. E. Africa, *L. m. suahelicus*, n. subsp., E. Africa; id. t. c. p. 187: *L. nasutus* and its allies; ERLANGER, t. c. pp. 439 & 440: *L. somaliensis* (fig. 1), *L. neumanni* (fig. 2), figured; REICHENOW, Vög. Afrikas iii, pl. v: *L. granti*, figured; DUBOIS, Ann. Mus. Congo i, p. 9, pl. v.
- Bycanistes*, remarks on the genus; id. t. c. p. 6: *B. leucopygius*, figured; id. t. c. p. 7, pl. iv; *B. sharpei* Elliot = *B. fistulator*, ♂ juv.
- Buceros vivi* Grant (nec Dubois), remarks on; id. t. c. p. 9.
- Ortholophus finschi* = *O. cassini*; FINSCH, Ibis 1905, pp. 286 & 287.

Sub-order UPUPÆ.

- Upupa epops* in Greece, *U. e. pallida*, notes on; PARROT, J. Ornith. 1905, pp. 818-820.
- Irrisor viridis* nesting in tree, eggs blue; SCLATER, Bull. B. O. C. xv, p. 40: *I. erythrorhynchus* and its allies; NEUMANN, J. Ornith. 1905, pp. 194-196: *I. e. neglectus*, n. subsp., Shoa and S. Ethiopia; id. t. c. p. 194: *I. erythrorhynchus guineensis* Reichenow, *I. e. abyssinicus* Neum., and *I. e. neglectus* are not separable from true *I. erythrorhynchus*; GRANT, Ibis 1905, pp. 209 & 210: *I. damarensis granti* doubtfully distinct from *I. damarensis*; id. t. c. p. 210: *I. erythrorhynchus* and *I. viridis*, notes on; OBERHOLSER, P. U. S. Mus. xxviii, p. 855.
- Scoptelus aterrimus notatus* and its allies; NEUMANN, J. Ornith. 1905, pp. 196 & 197: *S. a. emini*, n. subsp., Upper White Nile; id. t. c. p. 197: *S. a. major*, n. subsp., Lakes of S. Ethiopia; id. t. c. p. 197: *S. aterrimus*; REICHENOW, Vög. Afrikas iii, Nachtrag.
- Rhinopomastus minor somalicus*, n. subsp., Somali Land; ERLANGER, J. Ornith. 1905, pp. 461 & 462.

Sub-order MEROPES.

- Melittophagus pusillus cyanostictus*, notes on; OBERHOLSER, P. U. S. Mus. xxviii, pp. 852-854; *M. oreobates* Sharpe from Mt. Kilimanjaro; id. t. c. p. 854.
- Merops americanus* P. L. S. Müller antedates *M. bicolor* Bodd.; MCGREGOR, Bureau Govt. Labs. Manila, No. 34, p. 14: *M. apiaster* in Yorkshire; ROBINSON, Zoologist 1905, p. 389: *M. nubicus*, ad. et juv., figured; ERLANGER, J. Ornith. 1905, Taf. ix: *M. pusillus* and its allies; id. t. c. pp. 455 & 456: *M. variegatus* and its allies; id. t. c. pp. 456 & 457: *M. variegatus*, figured; id. t. c. Taf. x, figg. 1, 1a, 1b: *M. v. lafresnayeri*, figured; id. t. c. Taf. x, figg. 2 a-c: *M. v. oreobates*, figured; id. t. c. Taf. x, figg. 3, 3d, 3e.

Sub-order MOMOTI.

- Momotus momota parensis* and *M. m. ignobilis*, remarks on; HELLMAYR, Nov. Zool. xii, p. 296.

Sub-Order TODII.

- Fam. *Todidae*; WYTSMAN, in Wytsman's Genera Avium, Part II, pl. i.
T. viridis viridis (figg. 1-4), *T. v. subulatus* (fig. 5), *T. v. multicolor* (fig. 6),
T. v. hypochondriachus (fig. 7), figured; id. t. c. pl. i.

Sub-order CAPRIMULGI.

- Chordeiles virginianus hesperis*, n. subsp., Bear Lake, San Bernardino Mts, California; GRINNELL, Condor vii, p. 170.
- Scotornis climacurus*, *Caprimulgus fossei* and *C. apatelius*, notes on; NEUMANN, J. Ornith. 1905, pp. 198 & 199.
- Macrodipteryx longipennis* has no power to erect its streamers; A. L. BUTLER, Ibis 1905, pp. 345-347; KEMP, Ibis 1905, p. 225.
- Nyctidromus albicollis gilvus*, eggs described; ALLEN, Bull. Amer. Mus. xxi, p. 281; *N. derbyanus* Gould, from Central and Southern Brazil, distinguished from *N. albicollis* (Gm.) from Cayenne to N. Brazil; HELLMAYR, Nov. Zool. xii, p. 297.
- Phalænoptilus*, study of the anatomy; MARSHALL, P. Amer. Phil. Soc. xlv, pp. 213-240, pls. iv-vi.
- Antrostomus notabilis*, n. sp., Tamaulipas, Mexico; NELSON, P. Soc. Washington xviii, pp. 111 & 112; *A. carolinensis* in Kansas; COLVIN, Auk xxii, p. 81.
- Caprimulgus inornatus* and *C. fossei apatelius*, eggs described; ERLANGER, J. Ornith. 1905, pp. 498 & 499; *C. donaldsoni*, figured; id. t. c. Taf. xv: *C. affinis mindanensis*, n. subsp., S. Mindanao; MEARNs, P. Soc. Washington xviii, p. 85.
- C. griseatus*, note on; MCGREGOR, Bureau Govt. Labs. Manila, No. 25, p. 14: *C. europæus*, note on; GURNEY, Zoologist 1905, p. 88; FARREN, t. c. pp. 182 & 183: *C. apatelius*, notes on; NEUMANN, J. Ornith. 1905, p. 198; REICHENOW, Vög. Afrikas iii, Nachtrag, p. 827: *C. donaldsoni* from Taveta, E. Africa; OBERHOLSER, P. U. S. Mus. xxviii, p. 858.

Sub-order CYPSELI.

- Collocalia francica inexpectata* on Cagayan Sulu, Philippine Is.; MEARNs, P. Soc. Washington xviii, p. 90.

- Salangana marginata*, nest and eggs described; MCGREGOR, Bureau Govt. Labs. Manila, No. 25, pp. 14 & 15, pl. iii.
- Chætura dubia*, n. sp., Mindoro, Philippines; id. op. cit. No. 34, pp. 15 & 16, pl. xii: *C. pelagica*, habits; WEYGANT, Cassinia 1904, pp. 6-14: *C. vauxi*, notes on the nest and eggs; TAYLOR, Condor vii, pp. 177 & 179.
- Cypseloides niger borealis*, discovery of a second egg; VROOMAN, Condor vii, pp. 176 & 177.
- Tachornis parvus læmostigma*, n. consp., S. Somali Land; REICHENOW, Vög. Afrikas iii, Nachtrag, p. 828: note on; ERLANGER, J. Ornith. 1905, pp. 672 & 673: *T. pallidior*, n. sp., Luzon, Philippines; MCGREGOR, Bureau Govt. Labs. Manila, No. 25, pp. 27 & 28.
- Tachynautes*, n. g., type *T. parvus* (Licht.); OBERHOLSER, P. U. S. Mus. xxviii, p. 860: four species recognised; id. t. c. p. 861.
- Micropus* Wolf vice *Cypselus* Illiger; id. t. c. p. 861: *M. myoptilus* (Salvad.) from Mt Kilimanjaro; id. t. c. p. 861.
- Apus*, notes on the species of the Palæarctic Region. Six species recognised, with eight sub-species; KOLLIBAY, J. Ornith. 1905, pp. 297-304: *A. apus carlo*, n. subsp., Tunisia; id. t. c. p. 302: *A. melba tuneti*, note on; TSCHUSI, Ornith. Jahrb. xvi, p. 219.
- A. apus kollibayi*, remarks on; KOLLIBAY, Ornith. Monber. xiii, p. 145: *A. unicolor*, breeding on Madeira, Porto Santo, and the Desertas; SCHMITZ, t. c. pp. 197-200.

Sub-order TROCHILI.

- Humming-Birds of Argentina; DE MARCHI, Monit. Zool. ital. xvi, pp. 229-233.
- Glaucis hirsuta*, nest described; ALLEN, Bull. Amer. Mus. xxi, p. 281.
- Amizilis beryllina viola*, n. subsp., Sinaloa, Mexico; MILLER, t. c. pp. 353 & 354.
- Iache latirostris*, notes on; id. t. c. pp. 354 & 355.
- Orthorhynchus* Lacep. vice *Bellona* Muls. & Verr.; OBERHOLSER, Smithsonian Collect. quart. Vol. 48, p. 59.
- Heliothrix auriculatus phainolæma* Gould, is distinct from *H. auriculatus*; HELLMAYR, Nov. Zool. xii, p. 297: ranges of the two forms; id. t. c. p. 298.
- Selasphorus rufus*, notes on; FINLEY, Condor vii, pp. 59-62, cum figg.
- Bellona cristatus* is from Barbados, the Grenadines, and Grenada, *B. cristatus cristatus*, from the Grenadines and Grenada, and *B. cristatus emigrans* is restricted to Barbados; CLARK, Auk xxii, pp. 215 & 216.

Sub-Order COLII.

- Colius striatus* and allied forms; ERLANGER, J. Ornith. 1905, pp. 486, 489: *C. s. leucotis*, eggs described; id. t. c. pp. 487 & 488.
- Urocolius* Bp. distinct from *Colius*; OBERHOLSER, P. U. S. Mus. xxviii, p. 863: 7 species recognised, *U. macrourus syntactus*, n. subsp., Abyssinia; id. t. c. p. 863.

Order TROGONES.

- Prionotelus temnurus vescus*, n. subsp., Isle of Pines; BANGS & ZAPPEY, Amer. Natural. xxxix, pp. 204-206.

Order COCCYGES.

Sub-order MUSOPHAGI.

Turacus, key to the species ; DUBOIS, Ann. Mus. Congo i, p. 3 : *T. schuetti*, figured ; id. t. c. pl. ii ; *T. emini* (fig. 1), *T. sharpei* (fig. 2), figured ; id. t. c. pl. iii : *T. livingstonei* and its allies, *T. chalcophila* from Mpala, Lake Tanganyika ; id. t. c. p. 5 : *T. persa*, egg ; MUNT, Bull. B. O. C. xv, p. 51 ; *T. corythaix*, figured, with nest and eggs ; IVY, Journ. S. Afr. Orn. Union i, pl. v.

Sub-order CUCULI.

Pachycoccyx validus (Reichenow), figured ; DUBOIS, Ann. Mus. Congo i, p. 1, pl. i, fig. 2.

Cuculus canorus, an attempt to ascertain from the dimensions of the egg if the species is tending to break up into subspecies ; LATTE, Biometrika iv, pp. 363-373 : notes on the mimicry, etc. ; GÉBELL, Aquila xii, pp. 338 & 339 ; BARTOS, t. c. p. 339 : breeding habits ; WILSON, Zoologist 1905, pp. 310 & 311 ; FLEMING, Irish Natural. xiv, p. 164 : id. Zoologist 1905, pp. 232 & 233 : observations on the nestling ; GURNEY, t. c. pp. 164-169 : notes on its eggs ; REY, J. Ornith. 1905, pp. 304-310 : notes on ; RASPAIL, Bull. Soc. zool. France xxx, pp. 29-39, text-figg. 1-4 ; dates of arrival in 1902 ; HUTCHINSON, Tr. Woolhope Club 1904, pp. 46-48.

Columba pallida Lath. (ex Latham's "Pale Pigeon") is not *Cuculus variegatus*, as generally assigned ; HARTERT, Nov. Zool. xii, pp. 217 & 218. Cf. also SHARPE, Hist. Coll. Brit. Mus. Birds, p. 145.

Cacomantis flabelliformis, note on ; BRENT, Emu v, p. 86.

Eudynamis orientalis, n. sp., Solomon Ids. ; ROTHSCHILD & HARTERT, Nov. Zool. xii, p. 257.

Urodynamis taitensis, habits of ; FULTON, Rep. Australas. Ass. x, pp. 310-326.

Centropus anelli in Camaroons ; SHARPE, Ibis 1905, p. 466.

Saurothera merlini decolor, n. subsp., Isle of Pines ; BANGS & ZAPPEY, Amer. Natural. xxxix, pp. 199 & 100.

Piaya cayana and its allies, *P. c. guianensis*, and *P. c. cabanisi*, notes on ; HELLMAYR, Nov. Zool. xii, p. 298.

Order SCANSORES.

Sub-order INDICATOIRES.

Indicator, notes on the African species ; ERLANGER, J. Ornith. 1905, pp. 464-469.

Prodotiscus ellenbecki Erl. and *P. regulus* Sund., geographical range ; ERLANGER, J. Ornith. 1905, pp. 489 & 490, Taf. xiii & xiv : *P. peasei* and *P. zambesiæ* are not identical with *P. regulus* ; GRANT, Ibis 1905, pp. 210 & 211.

Sub-Order CAPITONES.

Lybius, notes on species ; ERLANGER, J. Ornith. 1905, pp. 490 & 491 : *L. abbotti* (Richmond) and its allies ; OBERHOLSER, P. U. S. Mus. xxviii, p. 864.

Tricholæma, notes on species ; ERLANGER, J. Ornith. 1905, pp. 491-493.

- Trachyphonus erythrocephalus* and *T. shelleyi*, remarks on ; id. t. c. pp. 469 & 470.
- Viridibucco*, n. gen. type *V. leucomystax* (Sharpe) ; OBERHOLSER, P. U. S. Mus. xxviii, p. 865.
- Barbatula pusilla*, *B. chrysocome* and their allies, notes on ; ERLANGER, J. Ornith. 1905, pp. 494-496.
- B. rubrigularis*, n. sp., Katanga, R. Congo ; DUBOIS, Ann. Mus. Congo i, p. 1, pl. i, fig. 1.
- Xylobucco* Bp. vice *Barbatula* Less. (nec Linck.), *Lignobucco* Reichenow, *Buccanodon* Hartl., and *Cladurus* Reichenow, all = *Xylobucco* Bp., characters of the genera *Stactolæma*, *Smilorhis*, and *Xylobucco* given, with list of species ; OBERHOLSER, P. U. S. Mus. xxviii, pp. 865-868.
- Cyanops franklini*, in confinement ; PHILLIPPS, Avicult. Mag. (2) iii, pp. 323-330 cum tab.

Sub-order RHAMPHASTIDES.

- Rhamphastos theresæ*, n. sp., Rio Paranahyba ; REISER, Anz. Ak. Wiss. 1905, No. xviii, p. 322.
- Rhamphastos hæmatorhynchus* Berlepsch & Hartert = *R. erythrorhynchus* Gm. ; HELLMAYR, Nov. Zool. xii, p. 299.
- R. levaillanti*, notes on ; id. t. c. p. 299.
- Pteroglossus wiedi* = *P. aracari* ; id. t. c. p. 300.

Order PICIFORMES.

Sub-order BUCCONES.

- Bucco ruficollis*, eggs, found in clay nest of *Furnarius agnatus*, described ; ALLEN, Bull. Amer. Mus. xxi, p. 280.
- Monasa peruana* ScL., scarcely distinct from *M. morphæus* (Hahn) ; HELLMAYR, Nov. Zool. xii, p. 297.

Sub-order PICI.

See LEISEWITZ (388).

- Colaptes auratus*, in Colorado ; FELGER, Auk xxii, p. 421.
- Gecinüs viridis innominatus*, n. subsp., Western Persia ; SARUDNY & LOUDON, Ornith. Monber. xiii, p. 49 : *G. canus* and *G. viridicanus*, remarks on ; KOLLIBAY, t. c. pp. 143-145.
- Dendromus*, notes on, *D. malherbei* and allied species ; ERLANGER, J. Ornith. 1905, pp. 473-477 : *D. mombassicus*, figured ; id. t. c. Taf. xi : *D. nubicus*, figured ; id. t. c. Taf. xii.
- Melanerpes erythrocephalus*, at Detroit, Michigan ; SWALES, Auk xxii, p. 80.
- Dendrocopus major* and its allies ; MARTORELLI, Atti Soc. Ital. xlvi, pp. 153-164 : *D. medius splendidior*, n. subsp., W. Balkans ; PARROT, J. Ornith. 1905, p. 555 : *D. minor danfordi*, in Greece ; id. t. c. p. 556.
- Picus owstoni*, n. sp., Amami-Oshima ; OGAWA, Annot. zool. Japon. v, pp. 203-205, pl. x.
- Dryobates villosus piger*, n. subsp., Great Bahama Island ; ALLEN, Auk xxii, pp. 124-126.
- Picoides arcticus*, at Melrose, Middlesex County, Mass. ; WRIGHT, t. c. p. 80.

- Dendropicus*, notes on various species; ERLANGER, J. Ornith. 1905, pp. 477-480: *D. lafresnayeri* (fig. 1), *D. pœcilolæmus* (fig. 2), *D. stierlingi* (fig. 3) figured; REICHENOW, Vög. Afrikas iii, pl. vi.
- Mesopicus griseocephalus kiwuensis*, n. subsp., Lake Kiwu, E. Africa; id. Vög. Afrikas iii, Nachtrag, p. 824.
- Chrysocolaptes xanthopygius*, n. sp., Sumatra and Borneo; FINSCH, Notes Leyden Mus. xxvi, pp. 34-36: *C. montanus*, n. sp., S. E. Mindanao; GRANT, Bull. B. O. C. xvi, p. 16: *C. gutticristatus* and *Tiga shorei*, similarity of plumage; GRANT, op. cit. xv, pp. 68 & 69.
- Campephilus principalis*, unusual plumage; WAYNE, Auk xxii, p. 414.
- Ceophleus pileatus abieticola*, in Massachusetts; BRIDGE, t. c. p. 414.
- Lynx pectoralis* and its allies, notes on; ERLANGER, J. Ornith. 1905, pp. 471 & 472.

Order EURYLÆMIFORMES.

- Contributions to the osteology and remarks on the systematic position; PYRAFT, P. Zool. Soc. London 1905, vol. ii, pp. 30-56, pl. ii, text-figg. 13-15.
- Fam. *Eurylæmidæ*; HARTERT, in Wytsman's 'Genera Avium,' pp. 1-8, pl. i: *Serilophus lunatus rothschildi*, figured; id. t. c. pl. i, fig. 5; *Psarisomus dahousiæ*, tail figured; id. t. c. pl. i, fig. 7; heads of *Corydon*, *Eurylaimus*, *Cymbirhynchus*, *Calyptomena*, *Sarcophanops*, figured; id. t. c. pl. i, figg. 1-4, 6.
- Corydon sumatranus*, nest and eggs described; GRANT, Fascic. Malay. Zool. iii, p. 79.
- Cymborhynchus macrorhynchus*, nest and eggs described; GRANT, t. c. pp. 96 & 97.

Order MENURIFORMES.

- Menura victoriae*, distribution and life history; KITSON, Emu v, pp. 57-67, pls. v-x.

Order PASSERIFORMES.

Family PTEROPTOCHIDÆ.

- The family name should be *Hylactidæ*; MENEGAUX & HELLMAYR, Bull. Mus. Paris 1905, p. 378.
- Scytalopus acutirostris* and *S. griseicollis*, notes on; iid. t. c. p. 19: *S. niger*, distinct from *S. magellanicus*, of which *S. albifrons* Landb., is a synonym; iid. t. c. pp. 378-380.
- Pteroptochus femoralis* Tschudi, and *P. acutirostris* Tschudi, referred to *Scytalopus*; the former perhaps a young bird of *S. magellanicus*; BERLEPSCH & HELLMAYR, J. Ornith. 1905, pp. 17-19.
- Scytalopus macropus* and allies, remarks on; iid. t. c. p. 18.

Family CONOPOPHAGIDÆ.

- Conopophaga*, notes on the genus; MENEGAUX & HELLMAYR, Bull. Mus. Paris 1905, pp. 374-378: *C. nigrogenys* Less. and *C. dorsalis* = *C. melanops* (V.); iid. t. c. p. 376: *C. perspicillata* (Licht.), distinct; iid. t. c. p. 377: *C. roberti*, n. sp., Parà; HELLMAYR, Bull. B. O. C. xv, p. 54: further notes on; id. Nov. Zool. xii, p. 292.
- Corythopsis humivagans* Tacz. = *C. torquata* Tschudi; BERLEPSCH & HELLMAYR, J. Ornith. 1905, p. 16: *C. torquata* Tschudi and *C. t. anthoides* Pucher., notes on; iid. t. c. pp. 16 & 17.

Family FORMICARIIDÆ.

- Thamnophilus olivaceus* Tschudi, is an ally of *Dysithamnus mentalis*, and is to be called *D. m. olivaceus*; BERLEPSCH & HELLMAYR, J. Ornith. 1905, pp. 14 & 15: *D. olivaceus* auct. (nec Tschudi), from Brazil, is *D. affinis* Pelz., allied to *D. spodionotus* Salv. & Godm.; iid. t. c. p. 15.
- T. simplex* Scl. (= *T. incertus* Pelz.), *T. schistaceus* D'Orb. and *T. plumbeus* Neuwied referred to the genus *Dysithamnus*; HELLMAYR, Nov. Zool. xii, pp. 284 & 285: *T. inornatus* Ridgw. = *D. schistaceus*; id. t. c. pp. 284 & 285: *T. melanonotus*, nest and eggs described; ALLEN, Bull. Amer. Mus. xxi, pp. 289 & 290: *T. axillaris* Tschudi is a *Herpsilochmus*; BERLEPSCH & HELLMAYR, J. Ornith. 1905, p. 16: *H. puncticeps* Tacz. = *H. axillaris*; iid. t. c. p. 16: *T. gorgonæ*, n. sp., Gorgona Is., Colombia; THAYER & BANGS, Bull. Mus. Harvard xlvi, p. 95: *T. camopiensis*, n. sp., Camopi river, French Guiana; MENEGAUX, Bull. Mus. Paris 1904, pp. 175 & 176.
- Thamnomanes cesius* from Parà; HELLMAYR, Nov. Zool. xii, p. 285.
- Cercomacra sclateri*, nom. nov., Upper Amazonia (Chyavctas) and *C. brasiliensis*, nom. nov., Rio. Review of the species; HELLMAYR, Nov. Zool. xii, pp. 286-289.
- Gymnopithys cristata* (Pelz.), notes on; BERLEPSCH & HELLMAYR, J. Ornith. 1905, p. 33.
- Hypocnemis vidua*, n. sp., Parà; HELLMAYR, Nov. Zool. xii, p. 290.
- Formicivora intermedia*, nest and eggs described; ALLEN, Bull. Amer. Mus. xxi, p. 289.
- Myrmeciza hemimelæna pallens*, n. subsp., Matogrosso, C. Brazil; BERLEPSCH & HELLMAYR, J. Ornith. 1905, pp. 32 & 33.
- Formicarius ruficeps amazonicus*, n. subsp., Parà; HELLMAYR, Nov. Zool. xii, p. 292.

Family DENDROCOLAPTIDÆ.

- Aphrastura fulva*, n. sp., Chili; ANGELINI, Boll. Soc. ital. (2) vi, pp. 227-230.
- Synallaxis griseiventris*, n. sp. (nec Allen), Bahia; REISER, Anz. Ak. Wiss. No. xviii, pp. 323 & 324: renamed *S. hellmayri*; id. Ornith. Monber. xiii, p. 210.
- Anabates montanus* is a *Philydor*; BERLEPSCH & HELLMAYR, J. Ornith. 1905, p. 13: *Philydor montanus striaticollis* (Scl.), not an *Anabazenops*; iid. t. c. p. 13: *A. variegaticeps* and *A. temporalis* referred to the genus *Philydor*; iid. t. c. p. 13: *A. ochrolæmus* Tschudi is an *Automolus*; iid. t. c. p. 13: *A. o. turdinus*, notes on; iid. t. c. p. 14: *A. melanorhynchus* Tschudi is an *Automolus*, *A. striaticeps* Scl. & Salv. is synonymous, *A. subulatus* (Spix) is a distinct species; iid. t. c. p. 14.
- A. concolor* Pelz. = *Automolus rectirostris* (Wied.); BERLEPSCH & HELLMAYR, t. c. pp. 28 & 29: *A. rubidus* Scl. = *A. rectirostris*; iid. t. c. p. 29: *A. dimidiatus* Pelz. is a *Philydor*; iid. t. c. p. 29: *A. infuscatus* Pelz. = *Philydor amaurotis* (Temm.); iid. t. c. p. 31.
- Anumbius ferrugineigula* is a *Thripophaga*; iid. t. c. pp. 27 & 28: *T. sclateri* is synonymous; iid. t. c. p. 28.
- Thripophaga berlepschi*, n. sp., Leimabamba, N. Peru; HELLMAYR, Nov. Zool. xii, p. 503.
- Philydor amaurotis* and *P. lichtensteini*, notes on, with synonymy; BERLEPSCH & HELLMAYR, J. Ornith. 1905, pp. 30-32.
- Automolus cinnamomeigula*, n. sp., Bogotà; HELLMAYR, Bull. B. O. C. xv, p. 55.

- Megaxenops*, n. g., type *M. parnaguæ*, n. sp., Paranagua, Brazil; REISER, Anz. Ak. Wiss. 1905, No. xviii, pp. 322 & 323.
- Dendrorornis fraterculus* Ridgw. = *D. spixi* (Less.); HELLMAYR, Nov. Zool. xii, pp. 282 & 283.
- D. insignis*, n. sp., Samiria, Upper Amazonia; id. Bull. B. O. C. xv, p. 56.
- Xiphorhynchus* Swains. vice *Dendrorornis* Eyton; OBERHOLSER, Smithsonian Collect. quart., vol. xlvi, pp. 62 & 63.
- Xiphornis*, nom. nov. pro *Xiphorhynchus* auct. nec Swains.; id. t. c. pp. 63 & 64.

Family TYRANNIDÆ.

- Copurus funebris* = *C. colonus*; HELLMAYR, Bull. B. O. C. xv, pp. 72 & 73.
- Rhynchocyclus flaviventris*, nest and eggs described; ALLEN, Bull. Amer. Mus. xxi, p. 284.
- Todirostrum fumifrons penardi*, n. subsp., Surinam; HELLMAYR, Bull. B. O. C. xv, pp. 90 & 91; *T. nigriceps*, nest and eggs described; ALLEN, Bull. Amer. Mus. xxi, p. 286.
- Euscarthmus rufipes* Cab. and *E. pelzelni* Scl. & Salv. = *E. margaritaceiventris* (D'Orb. & Lafr.), *E. m. wuchereri*, from Bahia district; BERLEPSCH & HELLMAYR, J. Ornith. 1905, pp. 10 & 11: *E. impiger*, nest and eggs described; ALLEN, Bull. Amer. Mus. xxi, p. 286.
- Serpophaga subcristata*, its food and migration; GOELDI, Ibis 1905, pp. 169-179.
- Phyllomyias reiseri*, n. sp., Piahy, S. E. Brazil; HELLMAYR, Bull. B. O. C. xv, p. 73: *P. lividus* Pelz. and *P. berlepschi* Scl. = *P. incanescens* (Wied.); BERLEPSCH & HELLMAYR, J. Ornith. 1905, pp. 24 & 25: *P. burmeisteri* and *P. bolivianus paulistus* Ihering = *P. virescens* (Temm.); iid. t. c. p. 25.
- Acrochordopus*, n. gen.; type (1) *Phyllomyias subviridis* (Pelz.) and (2) *Tyranniscus leucogonys* Scl. & Salv.; BERLEPSCH & HELLMAYR, J. Ornith. 1905, pp. 26 & 27.
- Myiopatis semifusca*, mischievous as a disseminator of seeds of the parasitic *Loranthaceæ*; GOELDI, Ibis 1905, pp. 169-179, text-figg. 12-14.
- M. superciliaris* Reinh. = *Phæomyias murina* (Spix); BERLEPSCH & HELLMAYR, J. Ornith. 1905, pp. 2 & 3: *P. semifusca* Scl. = *P. murina incomta* (Cab. & Heine); iid. t. c. p. 3: *P. modesta* Reinh. and *P. platyrhyncha* Scl. & Salv. = *Sublegatus fasciatus* (Thunb.); iid. t. c. pp. 4 & 5.
- Tyranniscus frontalis* Berlepsch & Stolzmann = *T. viridiflavus* (Tschudi); iid. t. c. p. 11.
- Elainea*, notes on the species; iid. t. c. pp. 1 & 2: *E. lundii* Reinh. = *E. albivertex* Pelz. juv.; iid. t. c. pp. 1 & 2: *E. sororia* Bangs = *E. albivertex*; iid. t. c. p. 2: *E. modesta* Tschudi = *E. albiceps* Lafr. & D'Orb. (pt.) and *E. gigas* Scl. (pt.); iid. t. c. p. 12: *E. brevirostris* Tschudi = *Sublegatus fasciatus* (Thunb.); iid. t. c. p. 12: *E. gracilis* Tacz. = *Sublegatus fasciatus* (Thunb.); iid. t. c. p. 5: *E. viridiflava* is a *Tyranniscus*; iid. t. c. pp. 11 & 12: *T. frontalis* Berl. & Stolzmann = *T. viridiflavus*; iid. t. c. p. 11: *E. pagana*, nest and eggs described; ALLEN, Bull. Amer. Mus. xxi, p. 285.
- Phæomyias*, notes on the two species, *P. murina* (Spix), and *P. m. incomta* (Cab. & Heine), *P. semifusca* (Scl.) = *P. incomta*; BERLEPSCH & HELLMAYR, J. Ornith. 1905, p. 3.
- Sublegatus incanescens* Salv. & Godm., Ibis 1880, p. 124 = *Phyllomyias griseiceps* (Scl. & Salv.); iid. t. c. p. 5: *S. fasciatus* (Thunberg, 1822),

- its synonymy [*Muscipeta brevirostris* Lafr. & D'Orb., *Phyllomyias modesta* Reinh., *P. platyrhyncha* Scl. & Salv., *Sublegatus griseocularis* are synonyms]; iid. t. c. pp. 4 & 5: *S. frontalis* Salvad. and *Elainea gracilis* Tacz. = *S. fasciatus* (Thunb.); iid. t. c. p. 5.
- Myiozetetes similis colombianus*, nest and eggs described; ALLEN, Bull. Amer. Mus. xxi, pp. 284 & 285.
- Myiodynastes audax nobilis*, nest and eggs described; id. t. c. pp. 283 & 284.
- Megarhynchus pitangus*, nest and eggs described; id. t. c. p. 383.
- Myiobius navius furfurosus*, n. subsp., Saboga Is., Bay of Panama; THAYER & BANGS, Bull. Mus. Harvard xlvi, pp. 152 & 153.
- Empidochanes albirostris* Cab. = *E. vireoninus* Ridgw., *E. cabanisi canescens* Chapm. = *E. fuscatus cabanisi* (Léot.); BERLEPSCH & HELLMAYR, J. Ornith. 1905, p. 21: notes on *E. fuscatus* (Wied), *E. euleri* Cab. and *E. f. bimaculatus*; iid. t. c. pp. 21-23.
- Empidochanes argentinus* is an *Empidonax*, *E. brunneus* Ridgway, probably = *E. euleri* or *E. argentinus*; iid. t. c. p. 23: *E. pæcilocercus* and *E. pæcilurus*, characters of the two species; iid. t. c. p. 27.
- Empidonax insulicola* Oberh. = *E. difficilis*; GRINNELL, Condor vii, pp. 51 & 52.
- Horizopus richardsoni richardsoni*, from S. Sinaloa; MILLER, Bull. Amer. Mus. xxi, p. 356.
- Contopus brachytarsus*, nest and eggs described; ALLEN, t. c. pp. 282 & 283.
- Myiarchus erythrocerus*, nest and eggs described; id. t. c. p. 282.
- Tyrannus melancholicus satrapa*, nest and eggs described; id. t. c. p. 281: *E. verticalis*, breeding habits; HUNTER, Condor vii, p. 53.

Family PIPRIDÆ.

- Pipra exquisita*, n. sp., C. Peru; HELLMAYR, Bull. B. O. C. xv, pp. 56 & 57: *P. opalizans*, notes on; id. Nov. Zool. xii, p. 294.
- Chiroxiphia lanceolata*, nest and eggs described; ALLEN, Bull. Amer. Mus. xxi, p. 288.
- Manacus manacus abditivus*, nest and eggs described; id. t. c. pp. 287 & 288.

Family COTINGIDÆ.

- Tityra cayana* from Pará; HELLMAYR, Nov. Zool. xii, p. 294: *T. intermedia* Cab. and Heine = *T. braziliensis* ♀; id. t. c. pp. 294 & 295.
- Pachyrhampus cinereiventris*, nest and eggs described; ALLEN, Bull. Amer. Mus. xxi, p. 287.
- Lathria cinerea* and *L. plumbea*, notes on; HELLMAYR, Nov. Zool. xii, p. 295.
- Lipangus* [potius *Lipaugus*] *holerythrus rosenbergi*, n. subsp., S.W. Colombia and N. W. Ecuador; HARTERT, Bull. B. O. C. xvi, p. 12.
- Hæmatoderus militaris* from Pará, notes on; HELLMAYR, Nov. Zool. xii, pp. 295 & 296.

Family XENICIDÆ.

- Acanthidositta citrina* (Gm.) distinct from *A. chloris* (Sparrm.). Both from South Island, N. Z.; GRANT, Bull. B. O. C. xv, pp. 82-84; id. Ibis 1905, pp. 594-597: anatomy; PYCRAFT, t. c. pp. 603-621, pl. xiii.
- Xenicus longipes* (fig. 1) and *X. stokesi* (figg. 2 & 3) figured; GRANT, Ibis 1905, pl. xii: *X. gilviventris* Pelz. distinct; id. t. c. p. 594: *X. stokesi*, figured; BULLER, Suppl. B. New Zealand ii, pl. xi.
- Traversia insularis*, figured; id. t. c. pl. x.

Family HIRUNDINIDÆ.

- Chelidon urbica*, notes on; FISCHER-SIGWART, Mt. Aargau. Ges. x, pp. 1-154.
- Riparia arabica*, n. sp., S. Arabia; REICHENOW, Vög. Afrikas iii, Nachtrag p. 828: *R. cincta erlangeri*, n. subsp., S. Abyssinia; REICHENOW, J. Ornith. 1905, p. 673.
- Hirundo rustica* in snow; OTTO, Ornith. Monber. xiii, p. 11: nesting habits; CUMMINGS, Zoologist. 1905, pp. 121-123: MILLS, t. c. pp. 180 & 181: RUSSELL, t. c. p. 181: OLDHAM, t. c. pp. 181 & 182: *H. rustica* and other species, migration; SCHUSTER, Zool. Garten xlvi, pp. 300-307: *H. lucida subalaris*, n. subsp., Congo; REICHENOW, Vög. Afrikas iii, Nachtrag, p. 829: *H. lucida* and *H. emini* near Adis Abeba, Abyssinia; ERLANGER, J. Ornith. 1905, p. 676: *H. puella abyssinica* (Guér.) distinct from the true *H. puella* which is from West Africa; OBERHOLSER, P. U. S. Mus. xxviii, p. 933: *Hirundo rustica rustica*, from Pantar, Mindanao, Philippine Is.; MEARNNS, P. Soc. Washington xviii, p. 90.
- Progne subis*, decrease in numbers on Long Island; KOBBE, Auk xxii, p. 211: *P. subis hesperia*, date of arrival at Stockton, California; BELDING, Condor vii, p. 113.
- Petrochelidon lunifrons lunifrons*, distribution in Utah; GOODWIN, Condor vii, p. 52.
- Psalidoproene holomelæna massaica* Neum. = *P. holomelæna* (Sund.); REICHENOW, Vög. Afrikas iii, Nachtrag, p. 829: *P. petiti* and *P. reichenowi*, notes on; id. t. c. p. 829.

Family MUSCICAPIDÆ.

- Micræa pallida* = *M. assimilis*; HARTERT, Nov. Zool. xii, p. 219.
- Aleconax murinus* and its allies, notes on; NEUMANN, J. Ornith. 1905, pp. 206-208: *A. m. djamdjamensis*, n. subsp., Djam-djam district, N. E. Africa; id. t. c. p. 206.
- Bradyornis griseus*, var. *erlangeri*, Somali Land; REICHENOW, Vög. Afrikas iii, Nachtrag, p. 830: its eggs; ERLANGER, J. Ornith. 1905, pp. 680 & 681.
- Dioptrornis chocolatinus*, its eggs; id. t. c. pp. 681 & 682: *D. kiwuensis*, n. sp., Lake Kiwu; REICHENOW, Vög. Afrikas iii, Nachtrag, p. 830.
- Muscicapa grisola* harrying bee-hives; CSÖRGEY, Aquila xii, pp. 331-334: at the Flannan Islands; CLARKE, Ann. Scott. Nat. Hist. 1905, p. 244: its habits; SCHUSTER, Ornith. Monber. xiii, pp. 205-207: *M. g. neumanni* Poche = *M. grisola*; NEUMANN, J. Ornith. 1905, p. 206: *M. atricapilla* and its allies, *M. a. semitorquata* and *M. a. speculigera*, notes on; PARRÔT, J. Ornith. 1905, pp. 539-542.
- Butalis grisola* var. *pallida*, n. subsp., E. Persia; SARUDNY, Denkschr. K. Russ. Geogr. Ges. xxxvi, p. 363 (1903); Cf. OTTO, Ornith. Monber. xiii, p. 135.
- Ficedula* Briss. vice *Hedymela* Sundev.; OBERHOLSER, Smithson. Collect. quart. xlviii, pp. 65 & 66.
- Cichlomyia*, n. gen., Type *Butalis cærulescens* Hartl.; OBERHOLSER, P. U. S. Mus. xxviii, p. 908.
- Arizelomyia*, n. gen., Type *A. latirostris* (Raffl.); id. t. c. p. 910.
- Muscicapa*, *Ficedula*, *Aleconax* and *Dioptrornis*, characters of the genera and list of species; id. t. c. pp. 909-911.
- Melanodryas picata* distinct from *M. bicolor*; HARTERT, Nov. Zool. vii, p. 220.
- Muscicapula montigena*, n. sp., Mount Apo (6000 feet), Mindanao, Philippine Is.; MEARNNS, P. Soc. Washington xviii, p. 8.

- Gerygone flavida* Ramsay is distinct from *G. personata* Gould; DE VIS, Ann. Queensland Mus. No. 6, pp. 41 & 42: *G. fusca*, note on; id. t. c. p. 44: *G. rhizophoræ*, n. sp., Mindanao; MEARN, P. Soc. Washington xviii, p. 7: *G. cinerascens* from N. W. Australia; HARTERT, Nov. Zool. xii, p. 221.
- Pseudogerygone igata* from the South Island, New Zealand, distinct from *P. flaviventris* of the North Island; GRANT, Bull. B. O. C. xv, pp. 80 & 81: *P. albofrontata*, figured; BULLER, Suppl. B. New Zealand ii, pl. xii, fig. 1.
- Chasiempis gayi*, nest and eggs described; BRYAN, Pap. B. P. Bishop Mus. ii, pp. 40-44, figg. i & ii.
- Pecilodryas* and *Eopsaltria* belong to the *Muscicapidæ* and not to the *Laniidæ*; HARTERT, Nov. Zool. xii, p. 231: *P. cinereiceps*, n. sp., N. Australia; id. t. c. p. 231.
- Chloropeta batesi*, n. sp., Camaroons, W. Africa; SHARPE, Ibis 1905, p. 468: *C. kenya* Sharpe = *C. similis* Richmond; OBERHOLSER, P. U. S. Mus. xxviii, p. 912: *C. minulla*, n. sp., Usambara, German East Africa; REICHENOW, Ornith. Monber. xiii, p. 181.
- Batis orientalis* and *B. o. minor*, nests and eggs; ERLANGER, J. Ornith. 1905, pp. 284 & 285: *B. mixta* and *B. dimorpha*, notes on; OBERHOLSER, P. U. S. Mus. xxviii, pp. 912 & 913: *B. diops*, n. sp., Ruwenzori Range, Equatorial Africa; JACKSON, Bull. B. O. C. xv, p. 38.
- Hypodes* Cass. distinct from *Parisoma*; REICHENOW, Vög. Afrikas iii, p. 523.
- Diaphorophya blissetti* in Sierra Leone; KEMP, Ibis 1905, p. 229: *D. ansorgei*, n. sp., Benguela; HARTERT, Bull. B. O. C. xv, p. 74.
- Platystira peltata* from S. Somali Land; ERLANGER, J. Ornith. 1905, p. 685: *P. cyanea albifrons*, and its allies; NEUMANN, t. c. pp. 210 & 211: REICHENOW, Vög. Afrikas iii, p. 832: *P. c. nyansæ*, n. subsp., Victoria Nyansa; NEUMANN, t. c. p. 210: *P. c. æthiopica*, n. subsp., Shoa to the Omo River; id. t. c. p. 211: *P. cryptoleuca*, n. sp., Useri River, E. Africa; OBERHOLSER, P. U. S. Mus. xxviii, p. 913.
- Smithornis capensis albigularis* Hartert = *S. capensis* (Smith); REICHENOW, Vög. Afrikas iii, Nachtrag, p. 831: *S. camarunensis*, n. sp., Camaroons, W. Africa; SHARPE, Ibis 1905, p. 469.
- Artomyias fuliginosa*, nestling plumage; id. t. c. p. 470.
- Hypothymis occipitalis*, nest and eggs described; MCGREGOR, Bureau Govt. Labs. Manila, No. 34, pp. 18 & 19, pl. xiii.
- Trochocercus bivittatus* in S. Somali Land; ERLANGER, J. Ornith. 1905, p. 686: *T. reichenowi* in Sierra Leone; KEMP, Ibis 1905, p. 230.
- Rhipidura albina* allied to *R. cockerelli*; ROTHSCHILD & HARTERT, Nov. Zool. xii, p. 260.
- Terpsiphone speciosa* Cass. figured; DUBOIS, Ann. Mus. Congo i, p. 11, pl. vii, fig. 1: *T. melanura* Reichenow, figured; id. t. c. p. 12, pl. vii, fig. 2: *T. ignea* Reichenow, figured; id. t. c. p. 13, pl. vi, fig. 2.
- Tchitrea melanura* may be only a phase of plumage of *T. viridis*; ERLANGER, J. Ornith. 1905, p. 688: *T. viridis ferreti*, notes on; NEUMANN, J. Ornith. 1905, pp. 211-213: nestling described; SHARPE, Ibis 1905, p. 470.
- Elminia longicauda*, nestling plumage; id. t. c. p. 470.
- Rhinomyias goodfellowi*, n. sp., S. E. Mindanao; GRANT, Bull. B. O. C. xvi, pp. 17 & 18.
- Myiagra ferrocyanea ferrocyanea* and *M. f. feminina*, notes on; ROTHSCHILD & HARTERT, Nov. Zool. xii, p. 261.
- Cryptolopha umbrovirens*, nest and eggs; ERLANGER, J. Ornith. 1905, pp. 683 & 684: and its allies; NEUMANN, J. Ornith. 1905, pp. 208 & 209: *C. u. omoensis*, n. subsp., Omo River; id. t. c. p. 208: *C. umbrovirens dorcadichroa* Reichenow and Neumann, notes on the species

- and on *C. u. mackenziana*; OBERHOLSER, P. U. S. Mus. xxviii, pp. 916 & 917.
- Abroornis schwaneri* Blyth and *A. vordermanni* (Bütt.) = *A. superciliaris* (Tick.); FINSCH, Notes Leyden Mus. xxvi, pp. 62 & 63.
- Miro traversi*, figured; BULLER, Suppl. B. New Zealand ii, pl. xii, fig. 2: *M. bulleri*, n. sp., South Is., New Zealand, SHARPE, in Buller, B. N. Z. ii, p. 124.
- Piezorhynchus florenciæ* Sharpe = *Monarcha richardsii* (Ramsay); ROTH-SCHILD & HARTERT, Nov. Zool. xii, p. 263.
- Monarcha kulambangræ meeki*, n. subsp., Rendova Island, Solomon Archipelago; iid. t. c. p. 262: *Pomarea ribbei* = *M. castaneiventris erythrosticta* (Sharpe); iid. t. c. p. 263.
- Conopotherax*, n. gen., vice *Chenorhamphus* Oust. (nec Gray); OBERHOLSER, Smithson. Collect. quart. xlvi, p. 66.

Family CAMPOPHAGIDÆ.

- Artamides mindorensis*, nest and eggs described: MCGREGOR, Bureau Govt. Labs. Manila, No. 34, p. 19, pl. xiv.
- Graucalus welchmani*, remarks on; ROTH-SCHILD & HARTERT, Nov. Zool. xii, p. 263: *G. pusillus ombriosus*, n. subsp., Solomon Islands (Gizo, Rubiana, Kulambangra, Rendova); iid. t. c. p. 264: *G. pusillus nigrifrons*, notes on; iid. t. c. p. 264: *G. holopolius* Sharpe is an *Edoliisoma*; iid. t. c. p. 265: *G. melanops*, in New Zealand; HUTTON, Tr. N. Zealand Inst. (2) xx, pp. 350 & 351.
- Edoliisoma elusum*, n. sp., Mindoro, Philippines; MCGREGOR, Bureau Govt. Labs. Manila, No. 34, pp. 19 & 20.
- Pericrocotus johnstoniæ*, n. sp., S. E. Mindanao; GRANT, Bull. B. O. C. xvi, p. 18.

Family PYCNONOTIDÆ.

- Hypsipetes*, notes on the Japanese species; *H. amaurotis magnirostris*, n. subsp., S. Dionisio, Volcano Islands; HARTERT, Bull. B. O. C. xv, p. 46.
- Andropadus roehli*, n. sp., Usambara, German East Africa; REICHENOW, Ornith. Monber. xiii, p. 181.
- Pycnonotus barbatus schoanus* Neumann, Ornith. Monber. 1905, p. 77 is a race of *P. arsinoe*, unde *P. a. schoanus*; REICHENOW, Vög. Afrikas iii, Nachtrag, p. 840: *P. a. somaliensis*, n. subsp., N. Somali Land; id. t. c. p. 840: *P. spurius*, n. sp., Ennia Galla Land; id. t. c. p. 841: *P. arsinoe schoanus* and *P. a. somaliensis*, *P. dodsoni*, eggs described; ERLANGER, J. Ornith. 1905, pp. 712-715: *P. xanthorrhous*, nesting in Upper Burma; HARRINGTON, J. Bombay Soc. xvi, pp. 740 & 741: *P. robinsoni*, n. sp., Tanjong, Patani, Malay Peninsula; GRANT, Fascic. Malay. Zool. iii, pp. 85 & 86.
- Poliolophus nieuwenhuisii*, n. sp., Upper Kajan, Dutch Borneo; FINSCH, Notes Leyden Mus. xxvi, p. 96, Taf. i.
- Thapsinillas* n. g., Type *T. affinis* (Homb. et Jacq.); OBERHOLSER, Smithson. Collect. quart. iii (2), pp. 161 & 162.
- Acritillas* n. g., Type *A. ictericus* (Strickl.); id. t. c. pp. 162 & 163.
- Arizelocichla* n. g., Type *A. nigriceps* (Shelley); id. t. c. pp. 163 & 164.
- Calyplocichla*, n. nom. pro *Trichites* Heine (nec Lycett); id. t. c. pp. 165 & 166.
- Charitillas* n. g., Type *C. gracilis* (Cab.); id. t. c. p. 168.
- Stelgidocichla* n. g., Type *S. latirostris* (Strickl.); id. t. c. pp. 168 & 169.

- Trichophorus* Temm. vice *Criniger*; id. t. c. pp. 150-152.
Idiocichla n. g., Type *I. notatus* (Cassin); id. t. c. p. 153.
Thescelocichla n. g., Type *T. leucopleurus* (Cassin); id. t. c. pp. 154 & 155.
Atimastillas n. g., Type *A. flavicollis* (Swains.); id. t. c. pp. 155 & 156.
Prosporphocichla n. g., Type *P. scandens* (Swains.); id. t. c. pp. 156 & 157:
P. scandens acedis, n. subsp., Ogobai river, Gaboon; id. t. c. pp. 157 & 158.
Argaleocichla n. g., Type *A. icterinus* (Bonap.); id. t. c. pp. 160 & 161.
A key to the genera treated in the above paper; id. t. c. pp. 170-172.

Family TIMELIIDÆ.

- Babax yunnanensis*, n. sp., W. Yun-nan, and *B. victoriae*, n. sp., Mt. Victoria, S. Chin Hills; RIPPON, Bull. B. O. C. xv, pp. 96 & 97:
B. waddelli from Tsampo Valley, Tibet; DRESSER, P. Zool. Soc. London 1905, i, p. 54, pl. iv.
Argya rubiginosa and *A. aylmeri*, eggs described; ERLANGER, J. Ornith. 1905, pp. 738 & 739.
Pomatorhinus mearsi, n. sp., Upper Chindwin River; GRANT, Bull. B. O. C. xv, p. 39.
Garrulax tibetanus, n. sp., Tsangpo Valley, Tibet; DRESSER, P. Z. S. 1905, pp. 54 & 55, pl. v, fig. 2 [= *Trochalopteron henrici* Oust.; GRANT, Bull. B. O. C. xv, p. 94.
Crateropus cordofanicus, n. sp., Kordofan; BUTLER, Ibis 1905, p. 330, pl. vii: *C. burtoni* Sharpe = *C. cinereus* Heugl.; REICHENOW, Vög. Afrikas iii, p. 658: *C. platycercus togoensis* Neum. = *C. platycercus* Sw.; REICHENOW, t. c. p. 660: *C. smithi* (fig. 1), *C. squamulatus* (fig. 2), *C. hypoleucus* (fig. 3), figured; id. t. c. pl. xxiv.
Phyllanthus Less. distinct from *Crateropus*; REICHENOW, t. c. p. 667.
Calamanthus albiloris, n. sp., Victoria, Australia; CAMPBELL, Emu iv, p. 122.
Pseudotharrhaleus griseipectus, n. sp., Mount Apo (6,200 feet), Mindanao, Philippine Is.; MEARNs, P. Soc. Washington xviii, pp. 2 & 3.
Macrosphenus flavicans (fig. 3) and *M. zenkeri* (Reichenow) (fig. 4) figured; REICHENOW, Vög. Afrikas iii, pl. xxii.
Turdinus albipectus figured; id. t. c. iii, pl. xxx, fig. 3: *T. batesi* Sharpe is an *Alethe*; id. t. c. p. 749.
Amaurocichla Sharpe belongs to the *Certhiidae*; id. t. c. p. 508.
A. kemp, n. sp., Sierra Leone; SHARPE, Bull. B. O. C. xv, p. 38: figured; KEMP, Ibis 1905, p. 231, pl. v.
Alcippe abyssinica, eggs described; ERLANGER, J. Ornith. 1905, p. 750: *A. stierlingi* figured; REICHENOW, Vög. Afrikas iii, pl. xxviii, fig. 1.
Parophasma, n. gen., type *P. galinieri*; id. t. c. p. 743: *P. galinieri*, habits; ERLANGER, J. Ornith. 1905, pp. 750 & 751.
Zosterornis nigrocapitatus, from Luzon; MCGREGOR, Bureau Govt. Labs. Manila, No. 34, p. 29.
Macronus mindanensis montanus, n. subsp., Mount Apo (4000 feet), Mindanao, Philippine Is.; MEARNs, P. Soc. Washington xviii, p. 4.
Horizillas, nom. nov. pro *Malacopteron* auctt. (nec Serville); OBERHOLSER, Smithson. Collect. quart. xlvi, pp. 64 & 65.
Leonardina, n. gen. [nom. emend. pro *Leonardia* Mearns, P. Soc. Washington xviii, pp. 1 & 2, nec Tapparone-Canefri, 1890], Type *L. woodi*, n. sp., Mt. Apo, Mindanao; MEARNs, P. Soc. Washington xviii, p. 88.
Myiophoneus robinsoni, n. sp., Selangor; GRANT, Bull. B. O. C. xv, p. 69: id. J. Federated States Mus. i; p. 104.
Brachypteryx mindanensis, n. sp., Mount Apo (6000 feet), Mindanao; MEARNs, P. Soc. Washington xviii, pp. 3 & 4.

- Ixops poliotis*, n. sp., Mt. Victoria, S. Chin Hills; RIPPON, Bull. B. O. C. xv, p. 97.
Liothrix luteus, in the London Parks; FINN, Avicult. Mag. (2) iii, pp. 317 & 318.
Suthora ripponi, n. sp., Mt. Victoria, S. Chin Hills; SHARPE, Bull. B. O. C. xv, p. 96.
S. brunnea, nesting in Upper Burma; HARRINGTON, J. Bombay Soc. xvi, p. 740.

Family PANURIDÆ.

- Panurus biarmicus*, in confinement; ST QUINTIN, Avicult. Mag. (2) iii, pp. 149 & 150: breeding in confinement; FARRER, t. c. pp. 318 & 319.

Family TROGLODYTIDÆ.

- Heleodytes griseus*, nest and eggs described; ALLEN, Bull. Amer. Mus. xxi, p. 294.
Telmatodytes palustris in the tidal swamps of the Delaware Valley; HUNT, Cassinia 1904, pp. 14-16: *Cistothorus stellaris* in E. Pennsylvania and New Jersey; HOLMES, t. c. pp. 17-25.
Troglodytes. Ranges of South American species; HELLMAYR, Nov. Zool. xii, p. 270: *T. audax* Tschudi = *T. musculus*, juv.; BERLEPSCH & HELLMAYR, J. Ornith. 1905, p. 6.
Cistothorus stellaris, in South-eastern Michigan; SWALES & TAVERNER, Auk xxii, pp. 88 & 89.
Troglodytes parvulus subpallidus, n. subsp., Mts. of N. E. Persia; SARUDNY & LOUDON, Ornith. Monber. xiii, p. 107: *T. p. hyrcanus*, n. subsp., Caspian Provinces of Persia (Ghilan, Masanderan, Asterabad); id. t. c. pp. 107 & 108. *T. parvulus*, nesting habits; BENTHAM, Zoologist 1905, p. 107: BUTTERFIELD, t. c. pp. 140 & 141: STEELE-ELLIOTT, t. c. p. 141: ELLISON, t. c. pp. 141 & 142: WALTON, t. c. p. 179.
Anorthura tibetana, n. sp., Khamba Jong, Tibet; WALTON, Bull. B. O. C. xv, p. 93.
Henicorhina hilaris bangsi, nest and eggs described; ALLEN, Bull. Amer. Mus. xxi, pp. 293 & 294.

Family CINCLIDÆ.

- Cinclus*, geographical distribution of the species; STEJNEGER, Smithson. Collect. quart. xlvii, pp. 421-430.
C. cinclus britannicus Tschusi = *C. gularis* (Lath.); id. t. c. p. 429.
Cinclus, notes on Asiatic species; BIANCHI, Bull. B. O. C. xv, pp. 91 & 92: *C. przewalskii*, n. sp., E. Tibet; id. t. c. p. 91: *C. saturatus* Dresser, and *C. kiborti* Madar. = *C. bilkewitschi* Sarudny; id. t. c. p. 92: *C. youngusbandi*, n. sp., Khamba Jong, Tibet; WALTON, Bull. B. O. C. xv, p. 93.

Family MIMIDÆ.

- Cichlherminia coryi*, n. subsp. ? Martinique, Lesser Antilles; RIDGWAY, Smithson. Collect. quart. ii (1), p. 112.
Cinclocerthia ruficauda tenebrosa, n. subsp. St Vincent, Lesser Antilles; RIDGWAY, t. c. pp. 112 & 113: *C. ruficauda pavidata*, n. subsp., St Christopher, Lesser Antilles; id. t. c. p. 113.

- Mimus gilvus guatemalensis*, n. subsp., Highlands of Guatemala; RIDGWAY, Smithson. Collect. Quart. ii (1), p. 113: *M. gilvus tolimensis*, n. subsp., Tolima, Colombia; id. t. c. p. 113.
Toxostoma rufum, wintering in New York City; LEWIS, Auk xxii, pp. 314 & 315.

Family TURDIDÆ.

- Remarks on the family; PYCRAFT, Ibis 1905, pp. 1-24, pl. ii.
Myiadestes genibarbis cherriei, n. subsp., Haiti, W. I.; RIDGWAY, Smithson. Collect. quart. ii, p. 112.
M. elizabeth retrusus, n. subsp., Isle of Pines; BANGS & ZAPPEY, Amer. Natural. xxxix, p. 208.
Turdus roehli, n. sp., Usambara, German East Africa; REICHENOW, Ornith. Monber. xiii, p. 182: *T. merula*, peculiar variety; READ, Bull. B. O. C. xvi, p. 36: in Tunis; KOLLIBAY, Ornith. Monber. xiii, p. 141: *T. merula algirus* and its allies; WITHERBY, op. cit. xv, p. 48: id. Ibis 1905, p. 181: *T. iliacus* from the Pleistocene of Derbyshire; ARNOLD-BEMROSE & NEWTON, Quart. J. Geol. Soc. 61, p. 56.
T. merula azorensis, n. subsp.; HARTERT, Nov. Zool. xii, p. 116.
M. bouboul in confinement; BUTLER, Avicult. Mag. (2) iii, pp. 243-247: *M. kelleri*, n. sp., Mount Apo (6000 feet), Mindanao, Philippine Is.; MEARN'S, P. Soc. Washington xviii, pp. 6 & 7: *M. celanops yakushimensis*, n. subsp., Yakushima; OGAWA, Annot. zool. Japon. v, pp. 180-182: *M. grayi lurida* and *M. albiventris fusca*, nests and eggs described; ALLEN, Bull. Amer. Mus. xxi, pp. 294 & 295.
Oreocinclla varia in Assam; MOORE, J. Bombay Soc. xvi, p. 502.
Ixoreus naevius, notes on; SILLOWAY, Condor vii, pp. 18-22: notes on the nesting; BROOKS, Auk xxii, pp. 214 & 215.
Geocichla major, n. sp., Amami-Oshima; OGAWA, Annot. zool. Japon. v, pp. 178 & 179.
G. litsitsirupa simensis, eggs described; REICHENOW (ERLANGER), J. Ornith. 1905, p. 170: *G. camaronensis*, n. sp., Camaroons, W. Africa; SHARPE, Ibis 1905, p. 472: *G. batesi*, n. sp., Camaroons; id. Bull. B. O. C. xvi, p. 36: *G. cinerea*, notes on; MCGREGOR, Bureau Govt. Labs. Manila, No. 34, p. 21, pl. xv.
Turdus deichleri Erlanger, notes on; KOLLIBAY, Ornith. Monber. xiii, pp. 141-143: *T. pelios centralis*, n. subsp., Lake Regions of Equatorial Africa; REICHENOW, Vög. Afrikas iii, p. 690: *T. abyssinicus* and *T. pelios*, eggs described; ERLANGER, J. Ornith. 1905, p. 741: *T. tephronotus* in S. Somali Land and Arussi Galla Land; id. t. c. pp. 742 & 743: *T. pilaris* in the Kurische Nehrung; THIENEMANN, Ornith. Monber. xiii, pp. 48 & 49: *T. atrigularis* in the Kurische Nehrung; id. t. c. p. 48: *T. torquatus* near Khartoum in December; A. L. BUTLER, Ibis 1905, p. 337: *T. alpestris*, range in Germany; BERGE, Ornith. Monber. xiii, pp. 150 & 151: *T. musicus*, curious semi-detached nests; PRATT, Bull. B. O. C. xv, p. 69.
Hypocolius referred to the *Turdinæ*; REICHENOW, Vög. Afrikas iii, p. 677.
Accentor, review of the genus and a key to the species; TSCHUSI, Ornith. Jahrb. xvi, pp. 127-140: *A. collaris collaris*, male, female and young described; id. t. c. pp. 128-131: *A. c. subalpinus*, described; id. t. c. pp. 132-134: *A. c. hypanis*, n. subsp., Kuban district, Caucasus; id. t. c. pp. 135 & 136.
Tharrhaleus modularis, white eggs [with egg of Cuckoo]; LOAT, Bull. B. O. C. xv, p. 78.

- Accentor modularis*, note on the nesting ; GURNEY, Zoologist 1905, p. 165 : BUTTERFIELD, t. c. p. 236.
- Ruticilla titys* at the Flannan Islands ; CLARKE, Ann. Scott. Nat. Hist. 1905, pp. 243 & 244.
- Phenicurus familiaris falkensteini*, figured ; REICHENOW, Vög. Afrikas iii, pl. xxx, fig. 1.
- Luscinia* Forster vice *Ædon* Forster ; OBERHOLSER, P. U. S. Mus. xxviii, p. 895. [Cf. SCLATER, infra.]
- Lusciola golzi* near Khartoum in September ; BUTLER, Ibis 1905, p. 337.
- Philomela* Link. (1806) has precedence over *Aedon* Forster (1817) for the Nightingale ; SCLATER, Bull. B. O. C. xvi, pp. 49-41.
- Daulias philomela*, remarks on its occurrence in England ; HARTERT, Bull. B. O. C. xv, p. 47.
- Aedon luscinia* in Bavaria ; GENGLER, Ornith. Monber. xiii, pp. 157-163.
- Erythacus rubecula*, notes on ; WITHERBY, Ibis 1905, p. 184 : feeding on moths ; SCHUSTER, Ornith. Monber. xiii, pp. 110 & 111 : in the Azores ; HARTERT, Nov. Zool. xii, p. 117 : *E. rubecula* (?) from the Pleistocene of Derbyshire ; ARNOLD-BEMROSE & NEWTON, Quart. J. Geol. Soc. 61, p. 56 : *E. cyanecula* near Hastings ; TICEHURST, Bull. B. O. C. xvi, p. 34.
- Tarsiger* belongs to the *Turdidae*, *T. orientalis* F. & R. = *T. cucullatus* Blyth ; OBERHOLSER, P. U. S. Mus. xxviii, p. 897.
- Cossypha* has a scutellated tarsus, and should be removed from the *Turdidae* ; id. t. c. p. 894 : *C. gutturalis*, eggs ; DRESSER, Bull. B. O. C. xv, p. 76 : *C. albigularis* (fig. 2), *C. polioptera* (fig. 3), figured ; REICHENOW, Vög. Afrikas iii, pl. xxviii.
- Cichladusa rufipennis* (Sharpe) = *C. guttata* (Heugl.) ; id. t. c. p. 766.
- Erythropygia leucoptera*, its eggs ; ERLANGER, J. Ornith. 1905, pp. 754 & 755 : *E. quadrivirgata erlangeri*, n. subsp., S. Somali Land ; REICHENOW, Vög. Afrikas iii, p. 770 : *E. brunneiceps soror*, n. subsp., E. Africa ; id. t. c. p. 774.
- Cuphopterus dohrni* is an *Alethe* ; id. t. c. p. 750.
- Alethe fülleborni usambaræ*, n. subsp., Usambara, German East Africa ; REICHENOW, Ornith. Monber. xiii, p. 182.
- Pratincola axillaris* and *P. sybilla*, notes on ; OBERHOLSER, P. U. S. Mus. xxviii, pp. 895 & 896 : *P. maura* near Cley in Norfolk ; SAUNDERS, Bull. B. O. C. xvi, p. 10 : in N. E. Africa ; ERLANGER, J. Ornith. 1905, pp. 748 & 749.
- Pinarochroa sordida erlangeri*, n. subsp., S. Somali Land, N. E. Africa ; REICHENOW, Ornith. Monber. xiii, p. 25 : figured ; ERLANGER, J. Ornith. 1905, Taf. xx : *P. s. schoana*, n. subsp., Shoa ; NEUMANN, Ornith. Monber. xiii, pp. 78 & 79 : *P. s. djamdjamensis*, n. subsp., Djamdjam Mts, E. of Lake Abaya, N. E. Africa ; id. t. c. p. 79 : figured ; REICHENOW, J. Ornith. 1905, Taf. xx.
- Oreicola jerdoni* nesting in Upper Burma ; HARRINGTON, J. Bombay Soc. xvi, p. 741.
- Saxicola bifasciata* is a *Thamnolæa* ; REICHENOW, Vög. Afrikas iii, p. 704 : *S. ænanthe* in the Egyptian Soudan in winter (November to April) ; BUTLER, Ibis 1905, p. 338 : *S. æ. leucorrhœa* in Cuba ; ROBINSON, Auk xxii, p. 315 : in the Azores ; HARTERT, Nov. Zool. xii, p. 117 : *S. borealis* Kleinschmidt (i.e. *S. ænanthe* Linn.), an essay on the Common Wheatear and its [supposed] allies ; KLEINSCHMIDT, Berajah, Lief. i, pp. 1-22, Taf. i-ix : *S. seebohmi*, notes on ; id. Falco i, pp. 30-35 : *S. stapazina* in Sussex ; NICOLL, Bull. B. O. C. xvi, p. 22 : *S. melanoleuca*, melanism ; KOLLIBAY, Ornith. Monber. xiii, p. 143 : *S. stapazina melanoleuca* and *S. aurita*, notes on ; PARROT, J. Ornith. 1905, pp. 626-633, 666 : *S. lugens halophila*, notes on ; WITHERBY, Ibis 1905, p. 182 : *S. albicollis caterinæ*, notes

- on; id. t. c. p. 183: *S. rostrata* H. & E., and *S. libanotica* H. & E., notes on; KLEINSCHMIDT, Ornith. Monber. xiii, pp. 165 & 166: *S. schalowi*, figured; REICHENOW, Vög. Afrikas iii, pl. xxx, fig. 2.
- Catharus fuscater sanctæ-martæ*, n. subsp., Santa Marta, Colombia; RIDGWAY, Smithson. Collect. quart. ii, p. 112.
- Zeledonia coronata* is a Turdine form; PYCRAFT, Ibis 1905, pp. 1-24: figured; id. t. c. pl. i.

Family SYLVIIDÆ.

Eggs of the Warblers of Europe; DRESSER (179).

- Locustella styani*, n. sp., S. E. China; LA TOUCHE, Bull. B. O. C. xvi, p. 21.
- Acrocephalus* divisible into three sub-genera, *Acrocephalus* Naum. (type *A. turdoides*), *Muscipeta* Koch (type *M. phragmitis*), *Tatare*, Less. (type *T. otaitensis*), *Acrocephalus orinno*, nom. emend. pro *A. macro-rhynchus* Hume, nec Müller; OBERHOLSER, P. U. S. Mus. xxviii, pp. 897-901.
- Notiocihla*, n. gen., type *N. bæticata* (Vieill.); id. t. c. pp. 900 & 901.
- Anteliocihla*, n. gen., type *A. bistrigiceps* (Swinh.); id. t. c. p. 901.
- Acrocephalus palustris* breeding in Kent; INGRAM, Bull. B. O. C. xv, p. 96; PYCRAFT, Knowledge 1905, p. 207: *A. turdoides* at Bexhill, Sussex; NICOLL, Zoologist 1905, p. 268: *A. aquaticus* in Sussex; NICOLL, Bull. B. O. C. xvi, pp. 22 & 23: in the Isle of Wight; WITHERBY, t. c. pp. 23 & 24: *A. streperus* and *A. palustris*, notes on; HARTERT, Ornith. xiii, p. 61: *A. phragmitis* at the Flannan Islands; CLARKE, Ann. Scott. Nat. Hist. 1905, p. 244.
- Dybowskia kemoensis* Oust. = *Heliolais erythroptera* (Jard.); REICHENOW, Vög. Afrikas iii, p. 570.
- Chætops kilimensis* Madarasz = *Melocihla mentalis orientalis* Shelley; id. t. c. p. 538.
- Cisticola semitorques* and *C. cinerascens*, note on; ERLANGER, J. Ornith. 1905, p. 721: *C. calamoherpe*, n. sp., Kilimanjaro district, N. to Lake Abassi, etc.; REICHENOW, Vög. Afrika iii, p. 549: *C. hindei* Sharpe = *C. brunnescens* Heugl.; REICHENOW, t. c. iii, p. 559.
- C. nigrifrons*, n. sp., German East Africa; id. t. c. p. 560: *C. robusta massaica*, n. subsp., Masai Land (between Mt Kilimanjaro and the eastern shores of the Victoria Nyanza); NEUMANN, Ornith. Monber. xiii, pp. 77 & 78: *C. lugubris nyansæ*, n. subsp., coast-region of the Victoria Nyanza; id. t. c. p. 78: *C. l. suahelica*, n. subsp., German East Africa (Usegua to Umbugwe and Uniamwesi); id. t. c. p. 78: *C. l. hæmatocephala*, and *C. erlangeri*, notes on, *C. robusta*, eggs described; ERLANGER, J. Ornith. 1905, pp. 718-720: *C. l. nyansæ* and *C. suahelica*; NEUMANN, Ornith. Monber. 1905, p. 78 = *C. lugubris* Rüpp.; REICHENOW, Vög. Afrikas iii, Nachtrag, p. 842: *C. robusta massaica* Neumann, Ornith. Monber. 1905, p. 77 = *C. robusta* (Rüpp.); id. t. c. p. 842: *C. semifasciata*, n. sp., Nyasa Land to Shoa; REICHENOW, Vög. Afrikas iii, p. 544: *C. prinioides* and its allies; OBERHOLSER, P. U. S. Mus. xxviii, p. 902: *C. harrisoni*, n. sp., El Bolossa Swamp, Moranda-River, British E. Africa; STONE, P. Ac. Philad. 1905, p. 771: *C. argentea*, n. sp., S. Somali Land: *C. schillingsi*, n. sp., E. Africa; REICHENOW, Ornith. Monber. xiii, p. 25.
- Bradypterus maricæ*, n. sp.; MADARASZ, Ann. Mus. Hungar. iii, pp. 401 & 402: *B. rufostavidus* Reichenow & Neumann = *B. barratti*; OBERHOLSER, P. U. S. Mus. xxviii, pp. 903 & 904.
- Calamonastes stierlingi*, figured; REICHENOW, Vög. Afrikas iii, pl. xx, fig. 3:

- C. simplex*, eggs described; ERLANGER, J. Ornith. 1905, pp. 722 & 723.
- Hypolais polyglotta*, note on; CARPEGNA, Bol. Soc. zool. Ital. (2) vi, p. 262: *H. icterina* in the Isle of Wight; WITHERBY, Bull. B. O. C. xvi, p. 24
- Sylvia curruca* near Berwick; BOLAM, Hist. Berwick. Club xix, p. 68: *S. orphea* in Sussex; TICEHURST, Bull. B. O. C. xvi, p. 35: *S. undata* nesting in Sussex; MORRIS, Zoologist 1905, p. 309: *S. delicatula* from S. Somali Land; REICHENOW, Vög. Afrikas iii, Nachtrag, p. 842.
- Phylloscopus sibilatrix flavescens*=*P. sibilatrix*; WITHERBY, Ibis 1905, p. 186: *P. tristis* believed to occur in Switzerland; FATIO, Arch. Sci. Nat. (4) xx, pp. 588 & 589.
- Acanthiza modesta*, n. sp., Charleville, Interior of Queensland; DE VIS, Ann. Queensland Mus. No. 6, p. 43: *A. katherina*, n. sp., Bellenden Ker Range; id. t. c. pp. 43 & 44.
- Sericornis tyrannula*, n. sp., Charleville, Interior of Queensland; id. t. c. pp. 42 & 43.
- Oreoscopus*, n. gen., type *O. gutturalis* (De Vis); NORTH, Agric. Gaz. N. S. W. xvi, p. 247.
- Apalis griseiceps*, figured; REICHENOW, Vög. Afrikas iii, pl. xx, fig. 1: *A. thescela*, n. sp., Mt Kilimanjaro, E. Africa; OBERHOLSER, P. U. S. Mus. xxviii, pp. 904 & 905: *A. erlangeri*, n. sp., S. Somali Land; REICHENOW, Ornith. Monber. xiii, pp. 24 & 25: id. Vög. Afrikas iii, p. 602: eggs described; id. J. Ornith. 1905, p. 727: figured; Taf. xix, fig. 1: *A. chariessa* (fig. 2), *A. porphyrolæma* (fig. 3), figured; REICHENOW, Vög. Afrikas iii, pl. xxi: *A. rufifrons*, eggs described; ERLANGER, J. Ornith. 1905, p. 726: *A. melanocephala* in S. Somali Land, figured; id. t. c. p. 728, Taf. xvii: *A. malensis*, eggs described; id. t. c. pp. 729 & 730: *A. æquatorialis* Neum.=*A. golzi* Neum.; REICHENOW, Vög. Afrikas iii, p. 611: *A. malensis*, n. sp. (ex Neum. MSS.), Galla Land and S. Somali Land; id. t. c. p. 612: *A. flavida malensis*, n. subsp., Male Land, N. of Lakes Rudolf and Stephanie; NEUMANN, Ornith. Monber. xiii, p. 78: *A. ansorgei*, n. sp., Angola; HARTERT, Bull. B. O. C. xv, p. 95.
- Euprinodes* generically distinct from *Apalis*; OBERHOLSER, P. U. S. Mus. xxviii, p. 906: *E. leucogaster* Sharpe=*Apalis schistacea* (Cass.); REICHENOW, Vög. Afrikas iii, p. 603.
- Sylviella toroensis*, n. sp., Kibera River, Toro; JACKSON, Bull. B. O. C. xv, p. 38.
- Sylviella erlangeri*, n. sp.; REICHENOW, Vög. Afrikas iii, p. 626: eggs described, ERLANGER, J. Ornith. 1905, p. 731: *S. rufescens ochrocarra*, n. subsp., Damara Land; OBERHOLSER, Smithson. Collect. quart. xlvii, Vol. ii, pp. 373 & 374: *S. rufigenis*, figured; REICHENOW, Vög. Afrikas, pl. xxi, fig. 4: *S. major* Neum.=*S. jacksoni* Sharpe; id. t. c. p. 627.
- Eremomela flaviventris griseoflava* and *E. erlangeri*, figured; ERLANGER, J. Ornith. 1905, pp. 733 & 734, Taf. xviii: *E. flaviventris abdominalis*, n. subsp., E. Africa; REICHENOW, Vög. Afrikas iii, p. 635: *E. erlangeri*, n. sp., Garre-Liwin, N. E. Africa; id. t. c. p. 635: *E. baugarti*, n. sp., Damara Land; id. Ornith. Monber. xiii, p. 25: *E. flaviventris sharpei*, n. subsp. (= *E. damarensis* Sharpe, nec Wahlberg), Damara Land; id. t. c. pp. 25 & 26: *E. scotops* from Kidudwe, E. Africa; OBERHOLSER, P. U. S. Mus. xxviii, pp. 906 & 907: *E. congensis*, n. sp., Lower Congo; REICHENOW, Vög. Afrikas iii, p. 639: *E. citriniceps*, figured; id. t. c. pl. xxii, fig. 2.
- Camaptera erlangeri*, n. sp., S. Somali Land; id. t. c. p. 617: *C. granti* Alex.=*C. chloronota* Reichenow; id. t. c. p. 620: *C. pileata* (fig. 3) and *C. chloronota* (fig. 4); figured, id. t. c. pl. xvii.
- Stiphronis xanthogaster*, figured; SHARPE, Ibis 1905, p. 476, pl. ix.

- Phyllergates heterolæmus*, n. sp., Mount Apo (6700 feet), Mindanao, Philippine Is.; MEARNS, P. Soc. Washington xviii, p. 86.
- Suya superciliaris* nesting in S. E. China; LA TOUCHE & RICKETT, Ibis 1905, pp. 35 & 36.
- Prinia somalica erlangeri*, n. subsp., S. Somali Land; REICHENOW, Ornith. Monber. xiii, p. 24: id. Vög. Afrikas iii, p. 592: eggs described; id. J. Ornith. 1905, p. 725: *P. somalica* and *P. s. erlangeri*, figured; ERLANGER, t. c. Taf. xix: *P. sonitans* breeding in S. E. China; LA TOUCHE & RICKETT, Ibis 1905, p. 36: *P. melanops*, figured; REICHENOW, Vög. Afrikas iii, pl. xx, fig. 2: *P. melanocephala*, figured; id. t. c. pl. xxii, fig. 1: *P. reichenowi* (Hartl.), figured; id. t. c. pl. xxii, fig. 1.
- Malurus pulcherrimus* from Alligator River, N. Australia; HARTERT, Nov. Zool. xii, pp. 223 & 224.
- Amytornis woodwardi*, n. sp., S. Alligator River, N. Australia; id. Bull. B. O. C. xvi, pp. 30 & 31: *A. housei*, figured; CAMPBELL, Emu iv, pl. xiii, fig. 3.

Family VIREONIDÆ.

- Hylophilus frontalis* (Tschudi) is a *Chlorospingus*; BERLEPSCH & HELLMAYR, J. Ornith. 1905, p. 8.
- Vireo huttoni oberholseri*, n. subsp., San Diego Co., California; BISHOP, Condor vii, pp. 142 & 143.

Family AMPELIDÆ.

- Ampelis garrulus*; supposed nesting in Worcestershire; REA, Trans. Worcester Club 1897-99: in Berkshire; PROCTOR, Bull. B. O. C. xv, p. 88: notes on; GOODWIN, Condor vii, pp. 98-100: in Utah; id. t. c. p. 52; migration in winter of 1903-04; TSCHUSI, Ornith. xiii, pp. 1-56.

Family ARTAMIDÆ.

- Artamus leucorhynchus*, nest and eggs described; MCGREGOR, Bureau Govt. Labs. Manila, No. 34, pp. 22 & 23.
- Pseudochelidon eurystomina* Hartl., figured; DUBOIS, Ann. Mus. Congo ii, p. 13, pl. viii.

Family PRIONOPIDÆ.

Characters of the Family; OBERHOLSER, P. U. S. Mus. xxviii, p. 924.

- Colluricincla pallidirostris* = *C. brunnea* ♀; HARTERT, Nov. Zool. xii, p. 227: *C. superciliosa*, from New Guinea and Cape York; id. t. c. p. 227: *C. sibilis* = *Pinarolestes boweri*; id. t. c. p. 228: *C. woodwardi*, n. sp., Arnhem Land, N. Australia; id. t. c. p. 228: *Pinarolestes parvula* and *P. rufigaster* belong to the genus *Colluricincla*; id. t. c. p. 228.
- Prionops melanoptera*, juv., figured; ERLANGER, J. Ornith. 1905, Taf. xvi, fig. 1.
- P. cristata* and allies; NEUMANN, J. Ornith. 1905, pp. 215-220: review of species; id. t. c. pp. 218-220: *P. cristata omoensis*, n. subsp., Omo River district; id. t. c. p. 216: *P. talacoma* Smith = *P. poliocephalus* Stanley; id. t. c. p. 218.

Family LANIIDÆ.

- Cracticus quoyi tunneyi*, n. subsp., Arnhem Land, N. Australia; HARTERT, Nov. Zool. xii, p. 228: review of the allied species; id. t. c. pp. 228 & 229: *C. nigrogularis picatus*, distinct from *C. nigrogularis*; id. t. c. pp. 229 & 230.
- Gymnorhina tibicen longirostris*, n. subsp. (nec Milligan), N. W. Australia; HARTERT, Nov. Zool. xii, p. 230.
- G. leuconota*, arterial system of the brain; BEDDARD, P. Zool. Soc. London 1905, i, pp. 114-116.
- Lanius minor*, from Bosham, Sussex; GRIFFITH, Bull. B. O. C. xvi, p. 38.
- L. lama*, from Tsampo Valley, Tibet; DRESSER, Bull. B. O. C. xv, p. 38: id. P. Zool. Soc. London 1905, pt. i, p. 55, pl. v, fig. 1 [= *L. tephronotus* GRANT, Bull. B. O. C. xv, p. 94.]
- L. collurio*, habits; STEELE-ELLIOTT, Zoologist 1905, pp. 309 & 310: CORBIN, t. c. pp. 387 & 388: breeding in confinement; GÜNTHER, Avicult. Mag. (2) iii, pp. 330 & 331.
- L. raddei* (figg. 1-3), *L. rufus* (figg. 4, 7), *L. erythronotus* (figg. 5, 8), *L. cristatus* (figg. 6, 9), *L. bucephalus* (figg. 10-12), eggs, figured; DRESSER, Ibis 1905, pp. 525-527, pl. xi.
- L. nubicus*, in Kent; NICOLL, Bull. B. O. C. xvi, p. 22.
- L. phœnicuroides*, in N. Somali Land; ERLANGER, J. Ornith. 1905, p. 703.
- L. ludovicianus*, in Connecticut in winter; ALLEN, Auk xxii, pp. 211 & 212.
- L. l. migrans*, observations at Ottawa; EIFRIG, Auk xxii, p. 314.
- L. arabicus*, n. sp., Amiri district, S. Arabia; GRANT, Bull. B. O. C. xv, p. 78.
- L. major*, on the Newarp Lightship, Essex Coast; WITHERBY, Bull. B. O. C. xv, p. 99.
- L. antinorii*, eggs described; ERLANGER, J. Ornith. 1905, pp. 701 & 702.
- L. excubitorius*, referred to the genus *Fiscus*; A. L. BUTLER, Ibis 1905, p. 327.
- L. uropygialis*, n. sp., is the form of *L. humeralis*, from East Africa; REICHENOW, J. Ornith. 1905, p. 560: id. Vög. Afrikas iii, Nachtrag, p. 835: *L. excubitorius intercedens*, n. subsp., Hawash to Omo River; NEUMANN, J. Ornith. 1905, p. 228 = *L. böhmi*; REICHENOW, t. c. Nachtrag, p. 835: *L. arabicus* Grant, probably = *L. buryi* Lorenz & Hellm.; id. t. c. p. 835.
- L. intercedens* and *L. böhmi*, remarks on; REICHENOW, J. Ornith. 1905, pp. 427 & 428.
- Enneactonus collurio* var. *fuscatus*, n. subsp., E. Persia; SARUDNY, Denkschr. K. Russ. Geogr. Ges. xxxvi, p. 368 (1903). Cf. OTTO, Ornith. Monber. xiii, p. 135.
- Cephalophoneus suluensis*, n. sp., Bual, Sulu Island, Philippine Islands; MEARNS, P. Soc. Washington xviii, p. 86.
- Malaconotus poliocephalus* and its races, notes on; NEUMANN, J. Ornith. 1905, pp. 225-227: *M. starki* Scl. = *M. blanchoti* (Steph.); id. t. c. p. 226: *M. blanchoti* Grant, nec Steph. = *M. catharoxanthus* Neum.; id. t. c. p. 226: range of the six forms; id. t. c. pp. 226 & 227.
- M. olivaceus schoanus* Neum. = *M. o. hypopyrrhus*; REICHENOW, J. Ornith. 1905, p. 559.
- Chlorophoneus sulfureopectus* and *C. s. suahelicus*, notes on; NEUMANN, J. Ornith. 1905, pp. 221 & 222: *C. multicolor*, in Sierra Leone; KEMP, Ibis 1905, p. 234.
- Pelcinius hilgerti*, eggs described; ERLANGER, J. Ornith. 1905, pp. 695 & 696.

- Laniarius jacksoni* Sharpe, probably = *Chlorophoneus bocagei*; REICHENOW, Vög. Afrikas iii, Nachtrag, p. 834 : *L. æthiopicus somaliensis*, n. subsp., S. Somali Land ; id. t. c. p. 834.
- L. æthiopicus* and *L. a. ambiguus*, notes on ; NEUMANN, J. Ornith. 1905, pp. 222 & 223.
- L. erlangeri*, n. sp., S. Somali Land ; REICHENOW, Vög. Afrikas iii, p. 834 : id. J. Ornith. 1905, p. 697.
- Dryoscopus malzakii erythreæ* and allied forms ; NEUMANN, J. Ornith. 1905, pp. 223-225.
- D. pringlei*, in S. Somali Land ; ERLANGER, J. Ornith. 1905, p. 699.
- Nicator gularis* from S. Somali Land ; ERLANGER, J. Ornith. 1905, p. 695.
- Pomatorhynchus blanfordi* Sharpe = *P. senegalus habessinicus* (H. & E.) ; NEUMANN, J. Ornith. 1905, p. 220.
- P. blanfordi* and *P. jamesi*, eggs described ; ERLANGER, J. Ornith. 1905, pp. 692, 695.
- Pachycephala nestoni*, n. sp., ♀, Bellenden Ker Range ; DE VIS, Ann. Queensland Mus. No. 6, pp. 44 & 45.
- Hyloterpe apoensis*, n. sp., Mount Apo (6000 feet), Mindanao, Philippine Is. ; MEARNs, P. Soc. Washington xviii, pp. 86 & 87.
- Hypocolius* referred to the *Turdidæ* ; REICHENOW, Vög. Afrikas iii, p. 677.

Family PARIDÆ.

See HARTERT, Vög. pal. Fauna, Heft. iii, pp. 339-384.

- Parus salicarius*, in England ; HARTERT, Ornis xiii, pp. 60 & 61.
- P. s. rhenanus*, figured ; KLEINSCHMIDT, C.R. vii Congr. Zool. 1905, pl. to p. 144.
- P. hudsonicus*, breeding at Dover, Maine ; RITCHIE, Auk xxii, pp. 85-87 : occurrence near Boston, Mass. ; WRIGHT, t. c. p. 87.
- P. montanus*, its rufous nasal plumes ; INGRAM, Bull. B. O. C. xv, p. 96.
- P. lugubris anatolicæ*, n. subsp., Asia Minor ; HARTERT, Vög. pal. Fauna, heft. iii, p. 368.
- Pæcile lugubris hyrcanus*, n. subsp., W. Persia ; SARUDNY & LOUDON, Ornith. Monber. xiii, p. 76.
- Parus ater schwederi*, n. subsp., Samhof, Livonia ; LOUDON & TSCHUSI, Ornith. Jahrb. xvi, pp. 140 & 141.
- Pardaliparus elegans mindanensis*, n. subsp., Mount Apo (6,200 feet), Mindanao, Philippine Is. ; MEARNs, P. Soc. Washington xviii, p. 8.
- Parus major* and allies, notes on ; HARTERT, Ornis xiii, pp. 59 & 60 : MARTORELLI, Avicula ix, pp. 86 & 87 ; HARTERT, Nov. Zool. xii, pp. 497-500 : *P. m. zayrossiensis* Sarudny & Loudon = *P. blanfordi*, *P. major caspius* probably also = *P. blanfordi*, *P. major caschmiriensis*, n. subsp., Cashmere ; id. t. c. p. 498 : *P. major planorum*, n. subsp., Plains of N. India ; id. t. c. p. 499 : *P. m. mahrattarum*, n. subsp., S. Indian Peninsula and Ceylon ; id. t. c. p. 499 : *P. m. hainanus*, n. subsp., Hainan ; id. t. c. p. 499 : *P. m. okinawæ*, n. subsp., Riu Kiu Id. ; id. t. c. p. 500 : *P. m. tibetanus*, n. subsp., Tibet ; id. t. c. p. 500 : *P. m. minor*, remarks on ; id. t. c. p. 500.
- P. major peloponnesius*, n. subsp., Greece ; PARROT, J. Ornith. 1905, pp. 547-550, 665.
- P. major zayrossiensis*, n. subsp., Sagrosch Mts., S. W. Persia ; SARUDNY & LOUDON, Ornith. Monber. xiii, pp. 108 & 109 : *P. m. caspius*, n. subsp., Caspian Provinces of Persia (Ghilan, Masanderan, Asterabad) ; iid., l. c.
- P. major blanfordi* Prazak (Ornith. Jahrb. 1895, p. 240) = *P. transcaspicus*

- Sarudny (Bull. Soc. Imp. Moscou, 1893); SARUDNY, Ornith. Monber. xiii, p. 109, note.
- P. bocharensis* Licht., not closely allied to *P. cinereus* Vieill., which is nearer to *P. transcaspicus* and *P. major*; SARUDNY & LOUDON, Ornith. Monber. xiii, p. 109, note.
- P. bocharensis turkestanicus*, n. subsp., C. Asia (Dsungaria, Sémiratschja, and Syr Darya districts); iid. t. c. p. 109.
- P. cæruleus*, curious variety in Holland; SNOUCKAERT VAN SCHAUBURG, Ornith. Monber. xiii, pp. 75 & 76.
- P. c. ogliastræ*, n. subsp., Sardinia and Corsica; HARTERT, Vög. pal. Fauna, heft. iii, p. 349.
- Cyanistes cæruleus orientalis*, n. subsp., E. Russia (Govts. of Orenburg, Ufa, Samara, Kazan, Simbirsk); SARUDNY & LOUDON, Ornith. Monber. xiii, pp. 105 & 106.
- C. berezowskii*, figured; BIANCHI, Wiss. Res. Przew. Reis. Vög. ii, pl. vii, figg. 3 & 4.
- Parus cyaneus*, figured; HERBERT, Tr. Edinb. Field Soc. v, pp. 194-196, pl. xix.
- P. niger lacuum*, n. subsp., Lake Region, S. of the Omo River, N. E. Africa; NEUMANN, Ornith. Monber. xiii, p. 77.
- Acredula calva*, figured; BIANCHI, Wiss. Res. Przew. Reis. Vög. ii, pl. vii, figg. 1 & 2.
- A. caudata*, nesting in Hungary; LINTIA, Aquila xii, pp. 335-337.
- Psaltriparus minimus*, nesting habits; FINLEY, Condor vii, pp. 91-95 cum tab.
- Ægithalus caudatus* and *A. roseus*, near Leipzig; HESSE, Ornith. Monber. xiii, pp. 127 & 128.
- Æ. stoliczkae*, figured; BIANCHI, Wiss. Res. Przew. Reis. Vög. ii, pl. x, figg. 1 & 2.
- Anthoscopus ansorgei*, n. sp., Benguela; HARTERT, Bull. B. O. C. xv, pp. 74 & 75: *A. sharpei*, n. sp., Usambiro, S. of Victoria Nyanza; id. t. c. p. 75.
- A. minutus* and its allies; REICHENOW, Vög. Afrikas iii, p. 526: *A. m. levillanti*, n. subsp., Cape Colony, *A. m. damarensis*, n. subsp., Damara Land; id. t. c. p. 526.
- Pholidornis* and *Parmoptila*, referred to the *Paridæ*; REICHENOW, Vög. Afrikas iii, p. 529.
- Xerophila castaneiventris*, figured; CAMPBELL, Emu iv, pl. xiii, fig. 1.
- Apatema*, n. gen., type *A. olivascens* (Cassin); REICHENOW, Vög. Afrikas iii, p. 523.

Family REGULIDÆ.

- Distribution in Italy; RONNA, *Avicula* ix, pp. 65-71. Cf. DRESSER, eggs of the birds of Europe (179).
- Regulus regulus anglorum*, n. subsp., British Islands; HARTERT, Bull. B. O. C. xvi, p. 11.

Family CERTHIIDÆ.

See HARTERT, Vög. pal. Fauna, Heft. iii, 1905, pp. 316-328.

- Amaurocichla Sharpe*, is a Creeper; REICHENOW, Vög. Afrikas iii, p. 508.
- Certhia familiaris corsa*, n. subsp., Corsica; HARTERT, Vög. pal. Fauna, heft. iii, p. 320: *C. f. bianchii*, n. subsp., Mts. of Kansu and N. Szechuen; id. t. c. p. 321: *C. f. tianschanica*, n. subsp., Tianshan; id. t. c. p. 321: *C. brachydactyla ultramontana*, n. subsp., N. Mediterranean countries; id. t. c. p. 324.

- C. familiaris persica*, n. subsp., Caspian Provinces of Persia (Ghilan, Masanderam, Asterabad); SARUDNY & LOUDON, Ornith. Monber. xiii, pp. 106 & 107.
- C. brachydactyla mauritanica*, n. subsp., Algeria and Tunis; WITHERBY, Bull. B. O. C. xv, pp. 35 & 36.
- C. familiaris* and *C. brachydactyla*, notes on; HARTERT, Ornith. xiii, pp. 58 & 59.
- C. familiaris americana*, observations on the nesting habits; CHADBOURNE, Auk xxii, pp. 179-183, pls. vi-ix; KENNARD & MCKECHNIE, t. c. pp. 183-193, pls. x-xii.

Family SITTIDÆ.

- Sitta europæa* and its allied forms; PARROT, Ornith. Jahrb. xvi, pp. 113-127.
- S. e. levantina*, n. subsp., Asia Minor to Palestine; HARTERT, Vög. pal. Fauna, heft. iii, p. 333.
- S. e. rubiginosa*, TSCHUSI & SARUDNY, Ornith. Jahrb. xvi, p. 140.
- S. syriaca obscura*, n. subsp., W. Persia; SARUDNY & LOUDON, Ornith. Monber. xiii, p. 76: *S. syriaca* is a distinct species from *S. neumayeri*; iid. t. c. p. 76, note.
- S. frontalis palawana*, n. subsp., Palawan and Balabac Is.; HARTERT, Bull. B. O. C. xvi, pp. 11 & 12.

Family ZOSTEROPIDÆ.

- Zosterops lateralis*, from Norfolk Island; NORTH, Rec. Austral. Mus. v, p. 338.
- Z. palpebrosa alani*, n. subsp., S. Dionisio, Volcano Islands; HARTERT, Bull. B. O. C. xv, p. 45.
- Z. japonica insularis*, n. subsp., Tanegashima and Yukushima; OGAWA, Annot. zool. Japon. v, pp. 186-190.
- Z. superciliosa* Reichenow from Lake Dilolo, Upper Congo; DUBOIS, Ann. Mus. Congo i, pp. 16 & 17.
- Z. völtkowi*, n. sp., Europa Island, near Madagascar; REICHENOW, Ornith. Monber. xiii, p. 180.
- Z. deserticola*, n. sp., Great Namaqua Land; REICHENOW, Vög. Afrikas iii, p. 433.

Family DICÆIDÆ.

- Dicæum sibuyanicum*, young bird described; MCGREGOR, Bureau Govt. Labs. Manila, No. 25, p. 18.
- D. davao*, n. sp., Rio Grande, S. Mindanao; MEARN'S, P. Soc. Washington xviii, p. 87.

Family NECTARINIIDÆ.

- Æthopyga boltoni*, n. sp., Mt. Apo, Mindanao; id. t. c. p. 5.
- Æthopyga rubrinota*, n. sp., Lubang Is., Philippines; MCGREGOR, Bureau Govt. Labs. Manila, No. 25, pp. 30 & 31.
- Nectarinia erlangeri*, n. sp., S. Somali Land; REICHENOW, Vög. Afrikas iii, p. 496.
- N. kilimensis* is a *Drepanorhynchus*; OBERHOLSER, P. U. S. Mus. xxviii, p. 931.
- Helionympha*, n. gen., type *H. nectarinioides* (Richmond); OBERHOLSER, P. U. S. Mus. xxviii, p. 929.
- Cinnyris chalcomelas*, n. sp., S. Somali Land (Kismayu); REICHENOW, Vög. Afrikas iii, p. 482.

- C. decorsei*, n. sp., Chari, Lake Chad ; OUSTALET, Bull. Mus. Paris 1904, p. 536.
C. völtkowi, n. sp., Mayotte ; REICHENOW, Ornith. Monber. xiii, p. 181.
C. pembæ, n. sp., Pemba Is., E. Africa ; id. t. c. p. 180.
Cyrtostomus dinagatensis, n. sp., Island of Dinagat, Philippine Is ; MEARNs, P. Soc. Washington xviii, pp. 5 & 6.
Chalcomitra oritis, figured ; REICHENOW, Vög. Afrikas, pl. xvii, fig. 1 : *C. borgaerti*, n. sp., E. Usambara Hills, German East Africa ; id. Ornith. Monber. xiii, p. 182.
Cinnyris olivacea ragazzii, distinct from *C. olivacea* ; OBERHOLSER, P. U. S. Mus. xxviii, p. 927.
Anabathmis, n. gen., type *A. thomensis* (Bocage) ; REICHENOW, Vög. Afrikas iii, p. 467.
Anthreptes rubritorques, n. sp., Usambara, German East Africa ; id. Ornith. Monber. xiii, p. 181.
A. cagayanensis, n. sp., Island of Cagayan Sulu, Philippine Is. ; MEARNs, P. Soc. Washington xviii, p. 6.
A. gabonicus, figured ; REICHENOW, Vög. Afrikas iii, pl. xvii, fig. 2.
A. orientalis = *A. longuemarii* ; id. t. c. p. 446.

Family MELIPHAGIDÆ.

- Myzomela obscura griseescens*, n. subsp., N. Territory of South Australia ; HARTERT, Nov. Zool. xii, p. 235.
Melithreptus magnirostris, n. sp., Kangaroo Island, South Australia ; NORTH, Rec. Austral. Mus. vi, pp. 20 & 21, pl. v, figg. 1 & 2.
M. brevirostris, note on ; id. t. c. p. 338.
Ptilotis fasciocularis, eggs described ; CAMPBELL, Emu iv, p. 137.
P. versicolor, nest and eggs described ; NORTH, Victorian Natural. xxi, pp. 167 & 168 : notes on ; id. Rec. Austral. Mus. vi, pp. 29 & 30, pl. v, fig. 3.
Philemon citreogularis sordidus distinct from *P. citreogularis* ; HARTERT, Nov. Zool. xii, p. 232.
Entomyza cyanotis and its allies ; id. t. c. pp. 232 & 233.

Family DREPANIDIDÆ.

- Chlorodrepanis chloris* and *C. virens*, nesting habits ; BRYAN, Occ. Pap. Honolulu Mus. ii, pp. 46-52.
Oreomystis maculata, nest and eggs described ; id. t. c. pp. 48 & 49, fig. 3.
Himatione sanguinea, note on ; id. t. c. p. 46.
Loxioides baillieui, nest and eggs described ; NEHRKORN, J. Ornith. 1905, pp. 419 & 420 : BRYAN, Pap. B. P. Bishop Mus. ii, pp. 59 & 60 cum fig.
Psittirostra psittacea deppei, nom. nov., vice *P. psittacea olivacea* Rothsch. nec Ranzani ; ROTHSCILD, Bull. B. O. C. xv, p. 45.
Heterorhynchus wilsoni, nest and eggs described ; BRYAN, Occ. Pap. Honolulu Mus. ii, pp. 61 & 62 cum fig.

Family MNIOTILTIDÆ.

- Migration in South-east Louisiana and Southern Mississippi ; KOPMAN, Auk xxii, pp. 289-296 : the winter ranges ; COOKE, t. c. pp. 296-299. See THAYER (685).
Vermivora, Swains. vice *Helminthophila* Ridgw. ; OBERHOLSER, Smithsonian Collect. quart. xlvi, pp. 66 & 67.

- Helminthophila celata*, winter resident in South Carolina; WAYNE, Auk xxii, p. 417.
- H. leucobronchialis*, at Englewood, New Jersey; HIX, Auk xxii, pp. 417 & 418.
- H. leucobronchialis* and *H. lawrencei*, status of; BISHOP, Auk xxii, pp. 21-24.
- H. bachmani*, notes on the breeding and a description of the first plumage of the young bird; BREWSTER, Auk xxii, pp. 392-394.
- Vermivora celata*, notes on the species and its forms; OBERHOLSER, Auk xxii, pp. 242-247.
- V. celata orestera*, n. subsp., Willis, New Mexico; id. t. c. pp. 243 & 244.
- Compothlypis americanus usneæ*, in Wayne Co., Michigan; SWALES, Auk xxii, pp. 84 & 85.
- Dendroica aestiva*, supposed occurrence in Grenada, West Indies; CLARK, Auk xxii, pp. 212-214; in Durham; BIDWELL, Bull. B. O. C. xv, p. 46; GRACE, t. c. pp. 46 & 47.
- D. townsendi*, distribution in California during migration; GRINNELL, Condor vii, pp. 52 & 53.
- D. auduboni* and *D. coronata* figured; COOKE, Bird Lore viii, pl. i.
- D. a. nigrifrons*, in Southern California; WAYNE, Auk xxii, p. 419.
- D. coronata*, at Cape Elizabeth, Maine, in January; BROWNSON, Auk xxii, p. 418.
- D. kirtlandi*, its range; TAVERNER, Ont. Nat. Sci. Bull. i, pp. 13-17; near Richmond, Indiana; DENNIS, Auk xxii, p. 314.
- Seiurus motacilla*, at Philadelphia in summer; ROGERS, Auk xxii, p. 419.
- S. noveboracensis*, nesting at Lancaster, Massachusetts; THAYER, Auk xxii, pp. 418 & 419.
- Setophaga ruticilla*, resident in Dominica, West Indies; CLARK, Auk xxii, p. 419.
- S. chrysogaster* Tschudi and *Basileuterus diachlorus* Cab. = *Basileuterus bivittatus chrysogaster*; BERLEPSCH & HELLMAYR, J. Ornith. 1905, pp. 6 & 7.
- Basileuterus*, notes on species and on Tschudi's types; iid. l. c.
- Myiodioctes tristriatus* Tschudi is a *Basileuterus*; iid. t. c. p. 7.
- Wilsonia mitrata*, at Falmouth in Maine; BROWNSON, Auk xxii, p. 85.

Family MOTACILLIDÆ.

See HARTERT, Vög. pal. Fauna, Heft. iii, 1905, pp. 263-310.

- Motacilla alba* and its allies; HARTERT, Vög. pal. Fauna, Heft. iii, pp. 301-309.
- M. lugubris*, nesting in a hedge; READ, Zoologist 1905, p. 33.
- M. subpersonata* a form of *M. alba* rather than *M. personata*; HARTERT, Ibis 1905, pp. 98-101.
- M. flava*, and its allies; HARTERT, Vög. pal. Fauna, heft. iii, pp. 287-296:
M. boarula and its allies; id. t. c. pp. 298-301.
- M. flava simillima*, n. subsp., Kamtschatka; id. t. c. p. 289.
- M. raii* and *M. melanope* in confinement; BUTLER, Avicult. Mag. (2) iii, pp. 271-274.
- Budytes leucocephala* figured; BIANCHI, Wiss. Res. Przew. Reis. Vög. ii, pl. x, figg. 3 & 4.
- Agrodroma godlewskii* Tacz. = *Anthus richardi striolatus* Blyth; HARTERT, Vög. pal. Fauna, heft. iii, p. 266.
- Anthus spipoletta*, at Eastbourne; ARNOLD, Zoologist 1905, p. 142.
- A. anadyrensis*, n. sp., River Gichiga, N. E. Siberia; ALLEN, Bull. Amer. Mus. xxi, p. 254.

- A. leucophrys captus*, n. subsp., Palestine to Persia and N. W. India; HARTERT, Vög. pal. Fauna, pp. 269 & 270: *A. berthelotii madeirensis*, n. subsp., Madeira; id. t. c. p. 271: *A. spinoletta kleinschmidti*, n. subsp., Faroe Islands; id. t. c. p. 284.
- A. nicholsoni longirostris*, n. subsp., Gandjule Lake, N. E. Africa; NEUMANN, Ornith. Monber. xiii, p. 77 = *A. nicholsoni*; REICHENOW, Vög. Afrikas iii, Nachtrag, p. 839.
- Anthus nivescens*, n. sp., Kismayu, Somali Land; REICHENOW, Ornith. Monber. xiii, p. 179.
- A. richardi* and *A. infuscatus* in S. E. China; LA TOUCHE & RICKETT, Ibis 1905, pp. 46-48.
- Macronyx*, notes on East African species of the genus: *M. sharpei* figured; JACKSON, Ibis 1905, pp. 101-104, pl. iii.
- Tmetothylacus tenellus* Cab., its habits; id. t. c. p. 194.

Family ALAUDIDÆ.

- See HARTERT, Vög. pal. Fauna, Heft. iii, 1905, pp. 241-263.
- Certhilauda somalica*, figured; WITHERBY, Ibis 1905, p. 512, pl. x.
- Alæmon alaudipes* and its allies; HARTERT, Vög. pal. Fauna, Heft. iii, pp. 250 & 251.
- A. hamertoni*, n. sp., E. Somali Land; WITHERBY, Ibis 1905, p. 513: *A. h. altera*, n. subsp., Wasangali Country, Somali Land; id. t. c. p. 514.
- Eremophila alpestris* and its allies; HARTERT, Vög. pal. Fauna, Heft. iii, pp. 255-263.
- Otocoris alpestris praticola*, on Mount Washington, N. H.; TORREY, Auk xxii, pp. 414 & 415.
- O. brandti montana*, n. subsp., Western Tian-shan; BIANCHI, Wiss. Res. Przew. Reis. Vög. ii, pp. 227-231: *O. b. przewalskii*, n. subsp., South-west Zaidam; id. t. c. pp. 231-236: *O. elwesi khamensis*, n. subsp., Tibet; id. t. c. pp. 249-251.
- Calendula dunni* Shelley is a *Galerida*; REICHENOW, Vög. Afrikas iii, p. 840.
- Mirafra javanica* and its Australian allies; HARTERT, Nov. Zool. xii, p. 237: *M. woodwardi*, figured. CAMPBELL, Emu iv, pl. xiii, fig. 2: *M. collaris*, E. Somali Land; WITHERBY, Ibis 1905, p. 511.
- Alauda galerita* and *A. theckla* in Algeria; KLEINSCHMIDT, Falco i, pp. 85-90.
- Galerida*, notes on Palæarctic species; HARTERT, Nov. Zool. xii, pp. 502 & 503.
- G. thecklæ superflua*, notes on; WHITAKER, Ibis 1905, pp. 195 & 196.
- G. cristata*, note on the species near St Petersburg; BIANCHI, Annuaire Mus. St Petersb. ix, p. xxxviii.
- G. c. meridionalis*, in Greece; PARROT, J. Ornith. 1905, pp. 640-643.
- G. c. carthaginis*, nom. n. pro *G. c. macrorhyncha* Erl. (nec Tristr.), Tunis; KLEINSCHMIDT & HILGERT, Ornith. Monber. xiii, p. 188: *G. cristata gafsæ*, n. sp., Tunis (*G. c. arenicola* Erl. nec Tristr.); iid. t. c. p. 189.
- Galerida*, review of North African species; iid. t. c. pp. 189 & 190.
- Alauda*, notes on Palæarctic species; HARTERT, Nov. Zool. xii, p. 501.
- A. buxtoni*, n. sp., Gichiga River, N. E. Siberia; ALLEN, Bull. Amer. Mus. xxi, p. 247.
- A. arvensis* and its allies; HARTERT, Vög. pal. Fauna, Heft. iii, pp. 244-250.
- Ammomanes*, review of the genus; BIANCHI, Bull. Ac. St. Petersb. xxi, pp. 231-246 (Russian); Cf. OTTO, J. Ornith. 1905, pp. 601-618.

- Pseudammomanes*, n. subgen., Type *Ps. ferruginea* (Smith); BIANCHI, t. c. p. 241.
Ammomanopsis, n. subgen., Type *A. grayi* (Wahlb.); id. t. c. p. 241.
Ammomanoides, n. subgen., Type *A. phœnicuroides* (Blyth); id. t. c. p. 241.
A. samharensis distinct from *A. assabensis*; HARTERT, Nov. Zool. xii, p. 302.
Spizocorys obbiensis, n. sp., Obbia, E. Somali Land; WITHERBY, Ibis 1905, pp. 514 & 515.
Lullula arborea and its allies; HARTERT, Vög. pal. Fauna, Heft. iii, pp. 241-243.
Pyrhulanda butleri Shelley, notes on; BUTLER, Ibis 1905, pp. 311-314.
P. leucotis and *P. melanocephala*, notes on; id. l. c.

Family FRINGILLIDÆ.

- Chloris chloris* in Greece: *C. c. aurantiiventris*, notes on; PARROT, J. Ornith. 1905, pp. 647.
Coccothraustes coccothraustes, note on the species near St. Petersburg; BIANCHI, Annuaire Mus. St Petersburg. ix, p. xxxiii.
C. vulgaris, structure of skull; PYCRAFT, Bull. B. O. C. xv, pp. 37 & 38.
C. v. buvryi Cab. from Algeria, is a distinct form of Hawfinch; WITHERBY, Bull. B. O. C. xv, p. 37: primaries figured; id. Ibis 1905, pp. 192 & 193, text-fig. 15.
Oryzoborus fringilloides Pelz. is a *Dolospingus*; BERLEPSCH & HELLMAYR, J. Ornith. 1906, pp. 23 & 24.
Spermophila albigularis, nesting in captivity; FARRAR, Avicult. Mag. (2) iii, pp. 358-362.
Cardinalis cardinalis, wintering in Concord, Mass.; HOWE, Auk xxii, p. 211.
Fringilla caelebs africanus, notes on; WITHERBY, Ibis 1905, p. 194.
F. montifringilla near Cologne on the 19th of June, 1905; REICHENOW, Ornith. Monber. xiii, p. 149.
F. teydea polatzeki, n. subsp., Gran Canaria Isl.; HARTERT, Ornith. Monber. xiii, p. 164.
Procarduelis nipalensis, in the Shan States, Burma; COMBER, J. Bombay Soc. xvi, p. 739.
Carduelis carduelis and its allied forms, that from Greece being probably undescribed; PARROT, J. Ornith. 1905, pp. 653-657.
C. elegans, on Norfolk Island; NORTH, Rec. Austral. Mus. v, p. 338.
C. elegans and *Ligurinus chloris*, notes on; FRIEDRICHS, Arch. Ver. Mecklenburg lviii, pp. 156-162.
Spinus citrinelloides and its allies; NEUMANN, J. Ornith. 1905, pp. 354-358: *S. c. kikuyuensis*, n. subsp., Kikuyu, Mt. Kenya, Naivascha Lake; id. t. c. p. 356.
S. pinus, breeding at Guelph, Ontario; KLUGH, Auk xxii, p. 415.
Linota rufostriata, n. sp., Tibet; WALTON, Bull. B. O. C. xv, p. 90.
Cannabina rufescens nesting in Berkshire; PROCTOR, Bull. B. O. C. xv, p. 88: in Kent; MEADE-WALDO, t. c. p. 88.
Acanthis hornemanni exilipes, in Montana; CAMERON, Auk xxii, p. 313.
Montifringilla nivalis in Sussex; NICOLL, Bull. B. O. C. xv, p. 58.
Petronia petronia algeriensis, n. subsp., Algeria; KOLLIBAY, Ornith. Monber. xiii, pp. 23 & 24.
Passer montanus var. *pallidus*, n. subsp., E. Persia; SARUDNY, Denkschr. K. Russ. Geogr. Ges. xxxvi, p. 262: (1903), cf. OTTO, Ornith. Monber. xiii, p. 135.
Passer domesticus, at Tucson, Arizona; BRENINGER, Auk xxii, p. 417:

- notes on the species in the United States ; SKINNER, Rep. Smithson. Inst. 1905, pp. 423-428.
- P. domesticus* and *P. italiae*, notes on the allied forms ; TSCHUSI, Ornith. Jahrb. xvi, pp. 215-219.
- Passer griseus* and its allies, 8 races recognised ; NEUMANN, J. Ornith. 1905, pp. 352 & 353.
- Poliospiza erlangeri*, n. sp., Arussi-Gala Land, N. E. Africa ; REICHENOW, Ornith. Monber. xiii, p. 146 : *P. collaris*, n. sp., Gurra Land, N. E. Africa ; id. t. c. p. 146 : *P. pachyrhyncha*, n. sp., Damaso, N. E. Africa ; id. t. c. pp. 146 & 147.
- Serinus sharpei* from Mossamedes ; W. L. SCLATER, Ann. S. Afr. Mus. iii, p. 372.
- Sycalis arvensis*, breeding in captivity ; BUTLER, Avicult. Mag. (2) iii, pp. 97-101.
- Hæmatospiza indica* (Gm.) the name for *H. sipahi* ; its synonymy ; RICHMOND, P. Soc. Washington xviii, pp. 75 & 76.
- Propasser waltoni*, n. sp., S. Tibet ; SHARPE, Bull. B. O. C. xv, p. 95.
- Leucosticte australis*, note on ; HENSHAW, Auk xxii, pp. 315 & 316.
- Carpodacus latissimus*, n. sp., Tibet ; WALTON, Bull. B. O. C. xv, p. 93.
- C. vinaceus*, in Upper Burma ; COMBER, J. Bombay Soc. xvi, p. 739.
- Pyrrhula ricketti*, n. sp., S. E. China ; LA TOUCHE, Bull. B. O. C. xvi, p. 21.
- Loxia curvirostra*, its decrease in Ireland ; USSHER, Irish Natural. xiv, p. 264.
- L. curvirostra minor*, in Montana ; SILLOWAY, Condor vii, pp. 174-176.
- Pinicola enucleator*, in the Kurische Nehrung ; THIENEMANN, Ornith. Monber. xiii, p. 11.
- Emberiza*, critical remarks on the species of the Palæarctic Region ; PARROT, Ornith. Jahrb. xvi, pp. 1-50, 81-113.
- E. pyrrhuloides pyrrhuloides* and *E. p. reiseri*, notes on ; KOLLIBAY, Ornith. Monber. xiii, pp. 145 & 146.
- E. affinis omoensis*, n. subsp., Omo River district ; NEUMANN, J. Ornith. 1905, p. 358 : *E. cabanisi* and *E. flaviventris*, notes on the subspecies ; id. t. c. p. 359.
- E. melanocephala*, at Little Common, Sussex ; NICOLL, Zoologist 1905, p. 267.
- E. cia* in Kent ; CARROLL, Ibis 1905, p. 291.
- E. cia godlewskii*, near Tomsk ; JOHANSEN, Ornith. Jahrb. xvi, pp. 201-205.
- E. aureola* near Cley in Norfolk ; SAUNDERS, Bull. B. O. C. xvi, pp. 10 & 11.
- E. cirrus*, distribution in Somerset ; BLATHWAYT, Zoologist 1905, p. 70.
- E. citriniventris*, n. sp., Syrian Desert ; SCLATER, Bull. B. O. C. xvi, p. 39.
- E. striolata* in Nubia ; N. C. ROTHSCHILD, Bull. B. O. C. xvi, p. 38.
- Plectrophanes nivalis*, habits ; D'AUBUSSON, Naturaliste 1905, pp. 1339-1341.
- Passerina nivalis*, observations on nesting habits ; EIFRIG, Auk xxii, pp. 240 & 241.
- Calcarius lapponicus*, notes on ; id. l. c.
- Zonotrichia albicollis*, breeding in Eastern Massachusetts ; ALLEN, Auk xxii, pp. 415 & 416.
- Z. leucophrys* ♂ and *Z. pileata* ♀ breeding in confinement ; SETH-SMITH, Avicult. Mag. (2) iii, pp. 331 & 332.
- Amphispiza belli canescens*, n. subsp., Ventura County, California ; GRINNELL, Condor vii, pp. 18 & 19.
- Spizella pallida*, in the Cariboo District, British Columbia ; BROOKS, Auk xxii, p. 83.
- Passerculus rostratus*, note on the question of its summer residence ; GRINNELL, Auk xxii, pp. 16-21.

- Ammodramus nelsoni*, in Nebraska; WOLCOTT, Auk xxii, p. 210.
A. henslowi, note on the species in Michigan; SWALES, Auk xxii, pp. 83 & 84.
Coturniculus henslowii, breeding in St Clair Co., Michigan; WOOD, Auk xxii, p. 416.
Ammodramus, Swains. vice *Coturniculus* Bp.; OBERHOLSER, Smithson. Collect. quart. xviii, pp. 67 & 68.
Ammospiza, **nom. nov.** pro *Ammodramus*, auct. nec Swains.; id. t. c. p. 68.
Peucea cassini, in Colorado; WARREN, Auk xxii, p. 417.
Passerella stephensi, note on; GRINNELL, Auk xxii, pp. 388 & 389.
Aimophila ruficeps, near Stanford University; GRINNELL, Condor vii, p. 53.
A. ruficeps scottii, at Trinidad, Colorado; HOWELL, Auk xxii, p. 210.
Pipilo maculatus atratus and *P. maculatus megalonyx*, notes on; SWARTH, Condor vii, pp. 171-174: *P. maculatus montanus*, n. subsp., Huachuca Mts., Arizona; id. t. c. pp. 172 & 173.
Coryphospingus pileatus, breeding in captivity; WILLIAMS, Avicult. Mag. (2) iv, pp. 30-34.
Charitospiza, **n. gen.** (vice *Tiaris*, auct. nec Swains.), Type *C. eucodma* Oberh. (*ornata* Wied nec Vieill.); OBERHOLSER, Smithson. Collect. quart. xviii, p. 67.
Neospiza goughensis (fig. 2) and *N. jessiae* (fig. 1) figured; EAGLE CLARKE, Ibis 1905, pl. vi.
Amblyospiza concolor Boc. is a *Linurgus*, and *Neospiza* Salvad. = *Linurgus*; SHELLEY, B. Africa iv, p. 1.

Family CÆREBIDÆ.

- Chlorophanes spiza exsul*, Berl., is from northern and western Ecuador, north through Panama to Chiriqui: *C. spiza guatemalensis* (Scl.) is from Guatemala south to Costa Rica; BANGS, P. Soc. Washington xviii, p. 185.
Coereba gorgonae, **n. sp.**, Gorgona Is., Colombia; THAYER & BANGS, Bull. Mus. Harvard xlvi, pp. 97 & 98.
Cyanerpes gigas, **n. sp.**, Gorgona Is., Colombia; iid. t. c. pp. 96 & 97.
Diglossa pectoralis uncinata, n. subsp., N. Peru; HELLMAYR, Nov. Zool. xiii, p. 564.
Dacnis angelica melanotis from Parà, and *D. arcangelica* Bp. from Bogotá probably distinct; id. t. c. p. 271.
D. cayana callaina, n. subsp., Divala, Chiriqui; BANGS, P. Soc. Washington xviii, pp. 154 & 155.

Family TANAGRIDÆ.

- Euphonia trinitatis*, nest and eggs described; ALLEN, Bull. Amer. Mus. xxi, p. 293.
Tanagrella velia signata, n. subsp., Parà; HELLMAYR, Bull. B. O. C. xv, p. 90.
Calospiza xanthocephala lamprotis Scl. from S. E. Peru; BERLEPSCH & HELLMAYR, J. Ornith. 1905, p. 8.
C. pulchra, *C. sophie*, and *C. xanthocephala*, notes on; iid. t. c., pp. 7 & 8.
C. albertinæ from Parà; HELLMAYR, Nov. Zool. xii, p. 273.
C. lavinia cara, n. subsp., Ceiba, Honduras; BANGS, P. Soc. Washington xviii, pp. 155 & 156.
Tanagra cana dilucida, n. subsp., San Miguel Is., Bay of Panama; THAYER & BANGS, Bull. Mus. Harvard xlvi, pp. 157 & 158.

- T. ornata*, figured ; BUTLER, Avicult. Mag. (2) iii, pl. to p. 179.
Spindalis pretreipinus, n. subsp., Isle of Pines ; BANGS & ZAPPEY, Amer. Natural. xxxix, pp. 213 & 214.
Rhamphocelus dimidiatus, nest and eggs described ; ALLEN, Bull. Amer. Mus. xxi, p. 292.
Phœnicothraupis rubica confinis, n. subsp., Yaruca, Honduras ; BANGS, P. Soc. Washington xviii, p. 156.
Nemosia fosteri, n. sp., Paraguay ; SHARPE, Bull. B. O. C. xv, p. 96.
Chlorospingus oleaginus ScL. = *C. frontalis* (Tschudi) ; BERLEPSCH & HELLMAYR, J. Ornith. 1905, pp. 9 & 10 : *C. f. ignobilis* ScL. from Venezuela is distinct ; iid. t. c. p. 9.
Saltator olivaceus, nest and eggs described ; ALLEN, Bull. Amer. Mus. xxi, pp. 291 & 292.
Arremonops conirostris caneus, nest and eggs described ; id. t. c. p. 291.

Family PLOCEIDÆ.

- SHELLEY, G. E. The Birds of Africa, Vol. iv, Part 1. London, 1905 ;
Coliuspasser soror, figured ; t. c. pl. xxix, fig. 2 : *Urobrachya axillaris*, var. *U. affinis*, figured ; id. t. c. pl. xxx, fig. 2 : *U. zanzibarica* (fig. 1) and *U. affinis* (fig. 2), figured ; id. t. c. pl. xxx.
Pyromelana ladoensis, figured ; id. t. c. pl. xxix, fig. 1.
Coliuspasser dubiosus, n. sp., Gelo River ; NEUMANN, J. Ornith. 1905, p. 348.
Pyromelana, notes on the South African species ; DUNCAN, Journ. S. Afr. Orn. Union i, pp. 57-61.
P. flammiceps petiti is distinct from *P. flammiceps* ; NEUMANN, J. Ornith. 1905, p. 344 : *P. f. sylvatica*, n. subsp., Camaroons to Angola ; id. t. c. p. 345.
P. franciscana pusilla in Harrar and Danakil Land ; id. t. c. pp. 345 & 346.
P. franciscana breeding in confinement ; PHILLIPPS, Avicult. Mag. (2) iii, pp. 89-94.
Euplectes capensis xanthomelas and its allies, notes on ; NEUMANN, J. Ornith. 1905, p. 346.
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- Cassiculus melanicterus* in S. Sinaloa, remarks on; MILLER, Bull. Amer. Mus. xxi, pp. 360 & 361.
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- Molothrus bonariensis*, notes on the species in captivity; PAGE, Avicult. Mag. (2) iii, pp. 137-141.
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- Lamprocorax todayensis*, n. sp., Todaya (4000 feet), Mindanao, Philippine Is.; MEARNS, P. Soc. Washington xviii, p. 88.
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IV. REPTILIA AND BATRACHIA.

BY

I. B. J. SOLLAS.

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V. PISCES.

BY

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LABRIDÆ.

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- Palæorhyncus* from eocene near Barberino di Mugello, PASQUALE, Atti Acc. Napoli xii, No. 8, pp. 1-7, 1 pl.

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- Sparis schlegeli*, Bleek., figured, OTAKI, FUJITA & HIGURASHI, Fishes of Japan.
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O. (Hymenocephalus?) austriacus, labiatus, **spp. n.**, SCHUBERT, t. c. p. 625, pl. xvi.

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- Parophiocephalus*, **g. n.** for *P. unimaculatus*, **sp. n.**, POPTA, Notes Leyden Mus. xxv, p. 183, Borneo.

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- Chenogaster holmbergi*, described and figured, LAHILLE, An. Mus. Buenos Aires, p. 461, pl. 1.

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- Dysalotus*, **g. n.**, near to *Chiasmodus*, for *D. alcocki*, **sp. n.**, MACGILCHRIST in Ann. Nat. Hist. (7) xv, pp. 268-278.
D. alcocki, figured, ALCOCK, Ill. Zool. "Investigator" viii, pl. xxxvii.

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figg. 1-3, notes on the habits.

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Karachi.

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VI. TUNICATA.

BY

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VII. MOLLUSCA.

BY

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INTRODUCTION.

THE literature attributable to the year 1905 seems to be of about the usual standard, both in quality and quantity.

As usual, we have to chronicle further progress by PILSBRY (600) with 'Tryon's Manual,' he having continued his study of the *Achatinidae*. KOBELT (387) has continued 'Martini & Chemnitz,' dealing with the *Agnatha*, *Naninidae* and *Helix*. Further portions of 'Bronn's Thierreich' from the pen of SIMROTH (68) have appeared and another part of TAYLOR'S (591) account of the British non-marine fauna; more rapid progress would double the value of these works. Both BERGH (42) and KOBELT (339, 343) have written in Semper's well-known 'Reisen,' on the marine and land fauna of the Philippines, respectively: the latter author having also continued (340, 495) his study of the Palæarctic non-marine fauna and the account of the European marine Mollusca.

The marine 'Expeditions' have not been so prolific as in the last few years. MEISENHEIMER (394) has written an elaborate account of the Pteropods collected during the German deep-sea Expedition, with valuable details, both anatomical and geographical. NIERSTRASZ (420) and BERGH (41) have described the Chitons and Opisthobranchs of the 'Siboga' Expedition, respectively, and ELIOT (201) the Nudibranchs of the 'Antarctic,' while HÄGG (257) has completed the review of the forms found during the Swedish Polar Expedition.

Several papers relating to Nudibranchs may perhaps be grouped together. The East African fauna has been studied by ELIOT (200); that of California by COCKERELL & ELIOT (128) and, so far as regards the *Dorididae*, by MACFARLAND (376); the South Australian species have been catalogued by BASEDOW & HEDLEY (30); while New Zealand has received attention from BENHAM (40).

The European *Turbinidae* and Opisthobranchs have been reviewed by LOCARD (364, 365). To FARRAN (204) we owe a useful account of some Opisthobranchs from Ceylon, while a number of shells from that island have been described by PRESTON (474) and SOWERBY (553). HIDALGO (285) has issued a catalogue of the marine fauna of the Philippines, and PILSBRY (459) has described further Japanese forms. As of old, HEDLEY (266, &c.) has written on the Australian fauna; SUTER (572, &c.) has added to our knowledge of New Zealand Molluscs; while Miss LODDER (367) has catalogued the species of Tasmania. Further studies on the Magellanic Mollusca have been written by STREBEL (568, 569).

Turning to papers devoted especially to non-marine forms, we may firstly note those by BOETTGER (57) on the Cameroons; GERMAIN (228, &c.) on Central Africa; and NEUVILLE & ANTHONY (414, 415) on Abyssinia. The contributions on the Asiatic fauna are of considerable interest: PILSBRY & HIRASE (461, 462) have described further shells from the Japanese Empire and given an account of the Formosan Molluscs; DAUTZENBERG & FISCHER (171) have added to our knowledge of the fauna of Tonkin; MARTENS (384) has dealt with some freshwater shells from Corea; and BLANFORD (47)—whose name we deeply regret appears for the last time—has described some Zonitoids from the Indian Region. DALL (165) has written a valuable account of the Alaskan fauna. As usual several papers have appeared relating to the North American fauna, notably by BAKER (19, &c.), CLAPP (114, &c.), PILSBRY (553, &c.), STERKI (562, &c.), WALKER (620, &c.), and WHITEAVES (663, &c.); special mention may be made of PILSBRY'S (460) on the *Urocoptidae* and *Helicidae* of the South Western States. The Bahamas Mollusca have been studied by DALL (158, 159). Several notes on the Neozelanian fauna by SUTER (575, &c.) will repay attention.

Artificial parthenogenesis has been studied by LOEB (368, 369); MARCEAU (378, &c.) has worked on the heart and muscles; SPILLMANN (555) the heart in the Diotocards; CARLSON (86, &c.) the physiology of the heart, &c.

Cephalopod anatomy has attracted a number of workers; we can only mention MERTON (404) on the retina, HESS (278) on the eye, and the papers by SCHWEIKART (510) and JOUBIN (313, 315).

Amongst the papers dealing with Gastropod embryology may be named those of OTTO & TÖNNIGES (430) on *Paludina*, WIERZEJSKI (642) on *Physa*, and SCHIMKEWITSCH (505, 506) on *Philina*. PILSBRY (450, &c.) has given a useful account of the anatomy of some Helicoids; SIMROTH (529, &c.) has issued some notes on Slugs; and we record the paper by REYNELL (487) on *Cassidaria*, as also those of DISTASO (184, &c.) on *Cæcidæ* and *Dentalium*. The Gastropod protoconch has been studied by KESTEVEN (327, 328). A curious case of duplication of the eye in *Helix* has been noticed by WIEGMANN (640). The development of Pelecypods has formed the subject of papers by ANTHONY (11, &c.); LLOYD (363) has dealt with the boring mechanism in molluscs; while HERDMAN (275, &c.) and BLOOMER (49, &c.) have, respectively, written on the anatomy of the Pearl Oyster and the *Solenidæ*. The habits and anatomy of the Amphineura have been studied by HEATH (263, &c.), and we may notice the paper by SCHWEIKART (510).

A review of the genera of the *Mytilidæ* has been issued by JUKES-BROWNE (317). WAGNER'S (617, 618) studies on *Helicina* have resulted in a very large number of new names, which may duly be seen in the systematic portion. A useful task has been undertaken by MAY (391) who has critically reviewed a number of Tenison-Woods' 'types.'

In conclusion, I would desire, since after the present year the form of the 'Record' will be altered, to take this, the last, opportunity of expressing my grateful thanks not only to Mr Edgar Smith, who has kindly assisted me for so many years past, but also to those many friends, by whose help in furnishing reprints and pointing out errors of commission and omission, it has alone been possible to fulfil my task.

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9. STRAY NOTES.

Swans and ducks do not eat *Anodonta cygnea*; ADAMS, J. Conch. xi, p. 192.—*Helix aspersa* in shell of *Limnæa*; BÜLOW (82).—Local Lapp names for shells; QVIGSTAD, Nyt Mag. Naturv. xlii, p. 386.

Collecting and preservation; BOLAU (59).—Some nomenclatural questions; DOLLFUS (187).—Packing living snails; HESSE (282).—Nomenclature of 'types'; SCHUCHERT & BUCKMAN (509).

B.—DISTRIBUTION.

GEOGRAPHICAL.

N.B.—The numbers in brackets refer to the "Titles." A reference is thus given to each memoir containing any notice affecting the Molluscan fauna of the several geographical divisions here adopted. Synonymic notes and changes of systematic position are, however, not noticed here. References to minor notes, which are not included in the "List of Titles," but which contain faunistic notes of any value, are given to the work direct.

NON-MARINE MOLLUSCA. [For *Marine* see p. 45.]

Distribution of Gastropods; SIMROTH in BRONN (68).

a. PALÆARCTIC ZONE.

Monograph of Fauna continued; KOBELT in ROSSMÆSSLER (495).

1. *Septentrional Region.*

Septentrional Region:—Many spp. dealt with; DALL (165).

Relations of Eastern Siberian and Alaskan Fauna; DALL (157).

British Isles:—Distribution of slug fauna, continued; TAYLOR (591): Origin of land and fresh-water fauna; SCHARFF (503): Notes on fauna; HORSLEY, J. Conch. xi, p. 256: Notes on Slugs; COCKERELL (127).

England and Wales:—Berkshire: Occurrence of *Vertigo moulinsiana*; TOMLIN (596).—Cambridge: *Vivipara contecta* var. from Wicken Fen; TAYLOR (590).—Cheshire: Land and freshwater shells from Northwich; LUCAS, J. Conch. xi, p. 137.—West Cornwall: Notes on fauna; WRIGHT & ADAMS (653).—Essex: Occurrence of *Limax tenellus*; PETCH (444): *Testacella haliotideu* at Colchester; LAVER, Essex Natural. xiii, p. 364: *Arion intermedius* in Epping Forest; PETCH, t. c. p. 364.—Hereford: Note on *Helix ericetorum*; ANON., Tr. Woolhope Club 1902–1904, p. 111.—Hertford: *Paludestrina jenkinsi* in New River; STUBBS, J. Conch. xi, p. 211.—Kent: Occurrence of *Hydrobia jenkinsi* in Cray at Crayford; HORSLEY, J. Conch. xi, p. 200.—West Lancashire: *Pisidium nitidum* var.; JACKSON (301): Shells from; DEAN (174).—Lincolnshire: Notes on shells; WOODRUFFE-PEACOCK, Naturalist 1905, p. 36: *Helix nemoralis*; id. t. c. p. 68: *Helix hortensis*, id. t. c. p. 216: Shells from Louth; CARTER, t. c. p. 230: *Cyclostoma elegans*; PRESTON, t. c. p. 254.—Northamptonshire: Additions to fauna; SHAW (518): Few landshells noted; WRIGHT, J. Northampt. Soc. xii, p. 182: SHAW, t. c. pp. 212, 277, 278: Landshells from river rejectamenta at Cranford; SHAW, t. c. p. 173: Occurrence of *Pomatias elegans*; WRIGHT, op. cit. xiii, p. 146.—Oxfordshire: Addenda to fauna; NAPIER & CARPENTER (413): Notes on fauna; CARPENTER (89).—Stafford: *Paludestrina jenkinsi*, n. var.; OVERTON (431): Occurrence of *Dreissena*; ANON., Tr. Caradoc Club iii, p. 137.—Suffolk: Occurrence of *Testacella haliotideu* var. near Wandbridge; PEARCE (442).—Yorkshire: *Limax tenellus*; CROWTHER (142).

Scotland:—Kincardineshire: *Limax tenellus*; SIMPSON, Tr. Aberdeen Soc. i, p. 175.—Aberdeen: *Physa acuta*; SIMPSON, t. c. p. 175.—Perthshire: Occurrence of *Planorbis fontanus*; EVANS, Ann. Scott. Nat. Hist. 1905, p. 247.

Ireland:—Occurrence of *Helix zakkarensis*, Kobelt; WELCH (627): Occurrence of *Vallonia excentrica*, Sterki; OLDHAM (427): Few shells

noted from N. Ireland; ANON., Rep. Belfast Club v, pp. 264, 272, 291: Fauna of County Louth; GRIERSON (248): Fauna of Co. Wicklow; GRIERSON (247): *Geomalacus* on Deenish I., Co. Kerry; KEMP (324): Deposit of opercula of *Bithynia* in Limerick; MASSY (388).

Sweden, Norway, Denmark, and Finland:—Addenda to fauna; WESTERLUND (631).

Norway:—Non-marine shells from the I. of Sydherø; SCHNEIDER (508).

Germany:—Notes on Fauna; EDER (194): Addenda to Middle German Fauna; GOLDFUSS (242).—Leipzig: *Stenogyra* and *Physa acuta* in Botanical Garden; SELL (515).—Munich: List of fauna; BLUME (53).—Hamburg: Notes on fauna; LINDINGER (360).—West Prussia: Notes on fauna; WOLTERSTORFF (651).—Wurttemberg: On *Vitrella*, with n. spp. and n. varr.; GEYER (234).—Alsace: A few species noticed from Ober-Eggenen and Kanden; MIEG (405).—Notes on fauna of Alsace; HAGENMÜLLER (256).

France:—Notes on Helices near Paris with *H. germaini*, n. sp.; LOCARD & GERMAIN (366); *Balia malleyi* n. sp.; CAZIOT (91).—Shells from Brides-des-Bains (Savoie); DAUPHIN (169).—Shells from Fresnay and Saint-Paterne; LETACQ (358).—Pas-de-Calais: Acclimatisation of *Helix acuta*; GIARD (236).

Switzerland:—Occurrence of *Helix obvia* at Neuchatel; GODET (240).

Russia:—Few shells from Lake Kaban; MEISSNER, Trudui Kazan Univ. xxxix, No. 3.

Korea:—Fresh-water Mollusca with n. spp. of *Corbicula* and *Melania*, and figg. of several unfigured species; MARTENS (384).

?Saghalian I.:—N. spp. of *Eulota*; FULTON (217).

2. Circum-Mediterranean Region.

S. Europe:—Notes on *Neritinae*; KORMOS (344).—Donaustauf on Danube: Occurrence of *Helix fatens*; CLESSIN, Nachrbl. Deutsch. malak. Ges. 1905, p. 204.

S. France:—N. spp. of *Balia*, *Helix*, and *Limnea*; CAZIOT (94).—Land shells from the Vosges; CAZIOT (98).

Spain:—Few land and fresh-water shells from Granada and Carmona; BULLEN (81).—List of land and fresh-water shells from Ripoll; MALUQUER Y NICOLAU (377).

Portugal:—Fauna recorded; ANON., Annuar. Ac. Porto 1895-6, p. 54; 1899-1900, p. 98; 1900-1, p. 84; 1903-4, p. 108.

Corfu:—List of non-marine fauna; PAGANETTI-HUMMLER (435): N. spp. of *Agriolimax* and *Limax*; SIMROTH (530).

Italy:—*Zospeum*, with n. spp.; POLLONERA (469).—Naples: *Campylaea philippii*, n. sp.; KOBELT (335).

Tirol:—A few shells; GREDLER (246): Few fresh-water shells; HUBER, Arch. Hydrobiol. i, p. 68.

Calabria:—N. spp. of *Murella*; KOBELT (336).

Montenegro:—Slugs from, with *Limax mrazeki*, n. sp.; SIMROTH (530): about twenty spp. listed; PETRBOK (446).

Bosnia:—*Limax mrazeki*, n. sp.; SIMROTH (530).

Greece:—*Vitrea tomlini*, n. sp.; SMITH (542).

Crete:—Few land shells from; BULLEN (80).

Caucasus:—Fauna, with n. varr. of *Anodonta* and *Pupa*; ROSEN (494).

Turkey:—New species of *Helix*; KOBELT in MARTINI & CHEMNITZ (387).

Asia Minor:—*Helix ancyrensis*, n. sp.; KOBELT in MARTINI & CHEMNITZ (387).

Palestine:—New species of *Helix*; KOBELT in MARTINI & CHEMNITZ (387).

Cilicia:—Shells, with n. spp. of *Cœlostele*, *Daudebardia*, *Daudebardiella* (n. gen.), *Helix*, *Lartetia*, and *Paulia*; BOETTGER (56).

Tunis:—Few shells noticed; CHAIGNON, Bull. Soc. Autun xvii, pp. 86, 165.

Tripoli:—*Helix grothei*, n. sp.; KOBELT in MARTINI & CHEMNITZ (387).

3. Central Asiatic Region.

Transcaspia:—*Buliminus larvatus*, n. sp.; KOBELT in ROSSMÆSSLER (495).

4. Chinese Region.

China:—*Miluna josephinae*, n. gen. and sp.; WAGNER (617).

Formosa:—*Mallendorffia hiraseana*, n. sp.; PILSBRY (456): Review of fauna, with n. spp. of *Alyceus*, *Blanfordia*, *Cyathopoma*, *Diplommatina*, *Eulota*, *Helicarion*, *Japonia*, *Kaliella*, *Macrochlamys*, *Microcystina*, *Palaina*, *Pseudopomatias*, *Punctum*, *Sitala*, and *Trochomorpha*; PILSBRY & HIRASE (462): *Philomycus taiwanensis*, n. sp.; SIMROTH (529).

5. Japanese Region.

Japanese Empire:—Shells from, with n. spp. of *Eulota*, *Kaliella*, *Macrochlamys*, *Microcystina*, *Otesia*, *Palaina*, *Punctum*, *Tornatellina*, and *Truncatella*; PILSBRY & HIRASE (462): N. spp. of *Philomycus*; SIMROTH (529).

Loochoos:—*Philomycus dœderleini*, n. sp.; SIMROTH (529).

6. Atlantidean Region.

[None.]

b. PALÆOTROPICAL AFRICAN ZONE.

7. Central African Region.

N. E. Africa:—N. spp. of *Africarion*, *Bloyetia*, *Homorus*, and *Vitrina* (?); KOBELT (337).

E. ? Africa:—*Urocyclus ehlersi*, n. sp.; SIMROTH (529).

Central Africa:—List of shells, with n. var. of *Achatina schweinfurthi*; GERMAIN (230).

Central Africa:—Molluscs of expedition to Lake Tchad and the Chari Region with n. spp. of *Ampullaria*, *Bithynia*, *Fischeria*, *Limicolaria*, *Mutela*, *Mutelina*, *Planorbis*, *Planorbula*, *Segmentina*, *Spatha*, and *Sphærium*; GERMAIN (229).—Lake Tchad: *Vivipara lenfanti*, n. sp.; GERMAIN (231): Notes on some shells; BOETTGER (54).

Tanganyika:—Land and fresh-water shells, with n. spp. of *Cleopatra*, *Planorbis*, *Serpæa*, and *Vivipara*; GERMAIN (231).

Zambesi River:—Fresh-water shells, with n. spp. of *Cleopatra*, *Unio*, and *Vivipara*; PRESTON (473).—Zumbo on Zambesi River: *Achatina morrelli*, n. sp.; PRESTON (472).

Upper Congo:—*Lanistes foai*, n. sp.; GERMAIN (231).

8. West African Region.

West Africa:—N. spp. of *Homorus* and *Trichodina*; PILSBRY in TRYON (600).

Senegambia:—N. spp. of *Arthropteron* and *Mitriodon*, n. genn.; ROCHEBRUNE (490).

Siberia:—N. spp. of *Curvella*; PILSBRY in TRYON (600).

Cameroons:—Fauna, with n. varr. and n. spp. of *Achatina* and *Ennea*; BOETTGER (57).

9. South African Region.

South Africa:—N. spp. of *Curvella*, *Ena* and *Obeliscus*; BURNUP (83).—Land and freshwater shells from Kalahari, with n. spp. of *Succinea* and *Vivipara*; MARTENS (385).

10. Malagasy Region.

Mauritius:—*Gibbulina obesa*, n. sp.; KOBELT in MARTINI & CHEMNITZ (387): Occurrence of *Macrochlamys*; GODWIN-AUSTEN (241).

11. Afro-Arabian Region.

Abyssinia:—Shells from, with n. spp. of *Ennea* and *Stenogyra*; NEUVILLE & ANTHONY (414): Shells from, with *Bulimus rothschildianus*, n. sp.; NEUVILLE & ANTHONY (415).

Somali Desert:—List of shells from; GERMAIN (228).

c. PALÆOTROPICAL ORIENTAL ZONE.

12. Indian Region.

India:—N. spp. of *Bensonina*, *Euplecta*, *Macrochlamys*, *Microcystina*, *Polita* (?), and *Taphrospira* (n. gen.); BLANFORD (47).

Ceylon:—N. spp. of *Diplommatina*; PRESTON (475): Notes on *Cataulus*, with new forms; SYKES (587).

Andamans:—*Microcystina stuarti*, n. sp.; BLANFORD (47).

Great Cocos Is.:—*Macrochlamys pseudochoenix*, n. sp.; BLANFORD (47).

Christmas Island:—*Jaminia proscripta*, n. sp.; SMITH (547).

13. Indo-Chinese Region.

Burma:—N. spp. of *Macrochlamys*; BLANFORD (47).

Siam:—*Chamberlainia pavonina*, n. sp.; ROCHEBRUNE (491).

Tonkin:—List of Collection, with n. varr., notes on synonymy, and n. spp. of *Helix*, *Kaliella*, *Limnæa*, *Mællendorffia*, *Streptaxis*, and *Unio*; DAUTZENBERG & FISCHER (171): *Tortaxis lubricus*, ? n. sp.; PILSBRY in TRYON (600): *Simpsonia demangei*, n. sp.; ROCHEBRUNE (491): N. spp. of *Philomycus*; SIMROTH (529): *Aphanoconia halongensis*, n. sp.; WAGNER (617).

Yunnan:—*Ariophanta innata*, n. sp.; FULTON (217).

14. Indo-Malay Region.

Borneo:—N. spp. of *Cyclotus*, *Diplommatina*, *Helicarion*, and *Lagochilus*; FULTON (217).—North Borneo: *Opisthostoma fraternum*, n. sp.; SMITH (545).—Sarawak: Three n. spp. of *Opisthostoma*; SMITH (539).

Banguay I.:—*Aphanoconia trichroa*, n. sp.; WAGNER (617).

Java:—*Chloritis malangensis*, n. sp.; BULLEN (79); *Plectotropis leucochila*, n. sp.; GUDE (252).

Java and Sumatra :—*Prosopias holosericum*, n. sp.; PILSBRY in TRYON (600).

Bawean :—N. subsp. of *Amphidromus*; FRUHSTORFER (214).

Engano :—N. subsp. of *Amphidromus*; FRUHSTORFER (214).

Gisser I. :—Varieties of *Xesta citrina* and *Planispira zebra*; BULLEN (79).

West Sumatra :—*Amphidromus bulowi*, n. sp.; FRUHSTORFER (213); N. spp. of *Dyakia*; SYKES (583).

15. Philippine Region.

Philippines :—*Helicostyla nearnsi*, n. sp.; BARTSCH (28): Species of *Inozonites* and *Trochomorpha*; KOBELT (339): Of *Obbina*; KOBELT & WINTER (343): *Sulfurina euchromia*, n. sp.; WAGNER (618).

d. AUSTRALIAN ZONE.

16. Austro-Malayan Region.

New Guinea :—*Planispira tectorium*, n. sp.; FULTON (220): N. spp. of *Aphanoconia* and *Sulfurina*; WAGNER (617).—British New Guinea: *Planispira blackiana*, n. sp.; PRESTON (471): N. spp. of *Chloritis*, *Hemiplecta*, *Papuina*, and *Rhyssota*; SMITH (546): *Palæohelicina hara*, n. sp.; WAGNER (618).

Kei Is. :—*Aphanoconia keiensis*, n. sp.; WAGNER (617).

Aru :—*Chloritis lintera*, n. sp.; GUDE (252).

Woodlark I. :—*Aphanoconia braueri*, n. sp.; WAGNER (617).

Halmahera :—*Sulfurina laurae*, n. sp.; WAGNER (617).

Louisiades :—N. spp. of *Aphanoconia* and *Palæohelicina*; WAGNER (617).

New Ireland :—N. spp. of *Papuina*; FULTON (220).

Solomon Is. :—*Papuina lilium*, n. sp.; FULTON (220).

17. Australian Region.

South Australia :—Shells from North-West Territory, with n. spp. of *Thersites* and *Xanthomelon*; HEDLEY (270): *Thalassia cyrtochila*, n. sp.; GUDE (252).

New South Wales :—*Sitala pudica*, n. sp.; GUDE (252).

Tasmania :—Notes on fauna; LODDER (367): Shells from Maria Island with n. spp. of *Ancylus* and *Helix*; PETTERD (447).

18. Austro-Polynesian Region.

Samoa :—*Sturanya jetschini*, n. sp.; WAGNER (617).

New Caledonia :—N. spp. of *Charopa* and *Endodonta*; GUDE (252).

Loyalty Is. :—*Charopa lifuana*, n. sp.; GUDE (252).

New Hebrides :—Shells, with n. spp. of *Palaina*, *Physa*, and *Potamo-pyrgus*; ANCEY (8).

19. Polynesian Region.

Hawaiian Is. :—Notes on shells, with n. spp. of *Amastra* and *Endodonta*; PILSBRY & VANATTA (464): N. spp. of *Endodonta* and *Opeas*; PILSBRY & VANATTA (466).

Tahiti :—*Aphanoconia pentheri*, n. sp.; WAGNER (617).

Pelew Is.:—N. spp. of *Paleohelicina* and *Sulfurina*; WAGNER (617).

Marquesas:—*Trochonanina sykesi*, n. sp.; GUDE (252).

Cook's Is.:—*Thalassia cookensis*, n. sp.; GUDE (252).

20. Neozelanian Region.

New Zealand:—On fresh-water fauna, with n. spp. of *Corneocyclas* and *Gundlachia*; SUTER (578): *Gundlachia neozelanicus*, n. sp.; SUTER (579): Review of *Potamopyrgus*, with *P. subterraneus*, n. sp.; SUTER (580): Illustrated review of species of *Isidora*; SUTER (581): *Flammulina laingi*, n. sp.; SUTER (575): On a few shells; WEBSTER (625).

e. NEANTARCTIC ZONE.

21. Patagonian Region.

Tierra del Fuego:—Few shells, with n. spp. of *Chilina* and *Succinea*; SMITH (543).

22. Chilian Region.

[None.]

f. NEOTROPICAL ZONE.

23. Peruvian Region.

Peru:—Notes on *Nenia*, with *N. callangana*, n. sp.; EHRMANN (195): N. spp. of *Drymæus* and *Strophocheilus*; FULTON (220): *Helicina schluteri*, n. sp.; WAGNER (618).

24. Colombian Region.

New Granada:—N. spp. of *Helicina*; WAGNER (618).

Venezuela:—N. spp. of *Helicina*; WAGNER (618).

25. Brazilian Region.

Brazil:—*Proserpina* (*Staffola*, n. sect.) *derbyi*, n. sp.; DALL (163): *Strophocheilus versatilis*, n. sp.; FULTON (220): List of some shells; IHERING (300): N. spp. of *Helicina*; WAGNER (618): N. spp. of *Tomigerus* from Ceara; IHERING (298).

26. Mexican Region.

Nicaragua:—Fauna of Mosquito Coast; FLUCK (208).

Central Mexico:—Land and fresh-water shells, with n. spp. of *Hendersonia* (n. gen.), *Schazicheila*, *Sphaerium*, *Streptostyla*, and *Xanthonyx*; DALL (160).

New Mexico:—*Oreohelix strigosa*, n. subsp.; COCKERELL (124): *Urocoptidae* and *Helicidae*, with *Holospira regis*, n. sp.; PILSBRY (460).

27. Caribbean Region.

Bahamas:—List of fauna, with n. spp. of *Cepolis*, *Cerion*, and *Rhytidopoma*; DALL (159): Non-marine fauna, with n. spp. of *Cepolis*; DALL (158).

Jamaica:—*Geomelania jarvisi*, n. sp.; SYKES (582).

g. NEARCTIC ZONE.

28. American Region.

United States:—Few notes on shells; ADAMS (1): Notes on many spp.; DALL (165): Several n. varr. of *Pisidium*; STERKI (566): *Pisidium atlanticum*, n. sp.; STERKI (563): Distribution of non-marine fauna; WALKER (622): Ancestry of *Unionidæ*; WHITE (632).—*Cycladidæ* of Southern States; STERKI (564).

Alabama: *Polygyra smithii*, n. sp.; CLAPP (115): *Carychium nannodes*, n. sp.; CLAPP (116): N. spp. of *Quadrula*; FRIERSON (211): *Polygyra decepta*, n. sp.; CLAPP (114): *Somatogyrus walkerianus*, n. sp.; ALDRICH (5): *Pisidium limatulum*, n. sp.; STERKI (562).—Arizona: *Urocoptidæ* and *Helicidæ*, with n. spp. of *Ashmunella*, *Holospira*, *Oreohelix*, and *Sonorella*; PILSBRY (460).—Florida: Land shells, with *Succinea floridana*, n. sp.; PILSBRY (455): New locality for *Cerion incanum*; SIMPSON (528): Shells, with n. spp. of *Lioplax* and *Unio*; WALKER (620).—Georgia: *Medionidus simpsonianus*, n. sp.; WALKER (621).—Indiana: Shells from Bass Lake; BAKER (22): List of semi-fossil landshells; DANIELS (166): *Succinea indiana*, n. sp.; PILSBRY (453).—Iowa: Fauna of McGregor Co.; BAKER (24).—Kentucky: List of *Unionidæ*; WILLIAMSON (646).—Maine: *Valvata nylanderi*, n. sp.; DALL (165).—Massachusetts: *Paludestrina salsa*, n. sp.; PILSBRY (457): A few slugs; COCKERELL, *Nautilus* xix, p. 84.—Michigan: Shells from; RUTHVEN (499).—New York: *Lymnæa owascoensis*, n. sp.; BAKER (21).—North Carolina: *Polygyra ferrissi*, n. subsp.; FERRISS (207).—Ohio: *Lymnæa sterki*, n. sp.; BAKER (23).—Rhode Island: Occurrence of *Lyogyrus brownii*; CARPENTER (90): *Vertigo perryi*, n. sp.; STERKI (565).—Wisconsin: List of shells from; CHADWICK (102).

Bermuda:—Notes on fauna; BRYANT (75).

29. Californian Region.

California:—*Lymnæa bryanti*, n. sp.; BAKER (21); Does *Cochliopa rowelli* exist there; PILSBRY (458): *Helix sequoicola*, n. subsp.; ROWELL (498).

30. Canadian Region.

Relations of Eastern Siberian and Alaskan Fauna; DALL (157).

Alaska:—Fauna of this and Canada, &c.; reviewed, with n. spp. of *Lymnæa* and *Segmentina*; DALL (165).

Yukon Territory:—Fresh-water shells; WHITEAVES (633).

Canada:—New localities for non-marine shells; WHITEAVES (636).—Land fauna of New Brunswick; BAILEY (18).—Land and fresh-water shells from Keewatin; WHITEAVES (637).

British Columbia:—*Goniobasis columbiensis*, n. sp.; WHITEAVES (635).

Hudson Bay:—Few non-marine shells; WHITEAVES (634).

MARINE MOLLUSCA. [For Non-Marine, see p. 39.]

Distribution of Pteropods; MEISENHEIMER (393, 394).

Supplement to fauna of Porcupine Expedition continued; SYKES (586).

Few Molluscs from Princesse-Alice, 1904; RICHARD, *Bull. Mus. Monaco* xli.

European Seas:—Tectibranchs and Heteropods; LOCARD (365).—*Trochidæ*; LOCARD (364).—Study of Fauna continued; KOBELT (340).

1. *Arctic Province.*

Spitzbergen:—List of species with *Buccinum bromsi*, n. sp.; HÄGG (257).
Jan Mayen Is.:—Some species enumerated; HÄGG (257).

2. *Boreal Province.*

Shells from near Drobak; KIÆR (329).

3. *Celtic Province.*

Germany:—Occurrence of *Mya arenaria*; LORENZEN (371).

British Isles:—*Hero formosa*, n. var.; ELIOT (198).—Tenby: Addenda to Fauna; VAUGHAN (603).—Burnham-on-Crouch: Notes on *Crepidula*; COOPER, J. Conch. xi, p. 227.—Occurrence of *Ostrea angulata* at Southend; PETCH (445).—Notes on *Pecten incomparabilis*; KNIGHT, Tr. Soc. Glasgow vii, p. 117.—Isle of Man: *Mytilus fry* in tow-nets; HERDMAN, P. Liverp. biol. Soc. xix, p. 214.—Ireland: Notes on fauna of Skerries; COLGAN (129): Occurrence of *Sthenoteuthis pteropus*; NICHOLS (419).

4. *Lusitanian Province.*

S. Atlantic Ocean:—*Pneumodermopsis macrochira*, n. sp.; MEISENHEIMER (394).

Portugal:—Fauna recorded; ANON., Annuar. Ac. Porto 1895-6, p. 54; 1899-1900, p. 98; 1900-1, p. 84; 1903-4, p. 108.

Off Cape St. Vincent:—*Marginella hesperia*, n. sp.; SYKES (585).

S. France:—Shells from Cette; HORSLEY (292): Notes on *Tapes*; HORSLEY (291).—Marseilles: Changes in fauna; BRIOT & GAVER (65).

Mediterranean:—Tectibranchs and Heteropods, with n. spp. of *Bulla* and *Tornatina*; LOCARD (365): *Trochidae*, with n. spp. of *Gibbula* and *Zizyphinus*; LOCARD (364); *Pseudoparastrophia levigata*, n. gen. and sp.; DISTASO (184).

Algeria:—Occurrence of *Natica intricatoides*, Hidalgo; ANCEY, Nautilus xix, p. 34.

5. *Aralo-Caspian Province.*

Caspian Sea:—Notes on fauna; OSTROUMOFF (429).

6. *West African Province.*

West Africa:—N. spp. of *Genota*, *Marginella*, and *Pusionella*; SYKES (585).

Gulf of Guinea:—N. spp. of *Pneumoderma* and *Thliptodon*; MEISENHEIMER (394).

Senegambia:—Notes on Oysters; ROCHEBRUNE (492).

Cape Verd Islands:—*Gibbula murchlandi*, n. sp.; SOWERBY (554): *Pecten keppelianus*, n. sp.; SOWERBY (552).

Sierra Leone:—N. spp. of *Conus*, *Diplodonta*, *Protoma*, *Tellina*, and *Venus*; SOWERBY (552).

Ascension Island:—N. spp. of *Pecten* and *Tellina*; SOWERBY (552).

7. *South African Province.*

Natal:—Notes on Nudibranchs with *Chromodoridella mirabilis*, n. gen. and sp.; ELIOT (197).

8. Indo-Pacific Province.

Indo-Pacific Province:—Review of Polyplacophora; NIERSTRASZ (420).

East Africa and Zanzibar:—Nudibranchs, with n. spp. of *Doto*, *Elysia*, *Facelina*, *Hervia*, *Orodores*, *Phidiana*, and *Stiliger*; ELIOT (200).

Mayotte:—*Marginella repentina*, n. sp.; SYKES (585).

Djibouti and Obock:—List of *Cerithiida*; VIGNAL (612): List of *Cypræida*; VAYSSIÈRE (605): Catalogue of Gastropods from; LAMY (349): *Arcida* from; LAMY (348).

Red Sea and Gulf of Aden:—List of species, with n. spp. of *Drillia*, *Levanderina* (n. gen.), and *Raeta*; STURANY (571).

Red Sea:—*Ricinula lischkei*, n. sp.; HIDALGO (286).

Karachi, &c.:—Nudibranchs, with n. spp. of *Platydor* and *Thecacera*; ELIOT (199).

Masandam Is.:—*Pecten cristatum*, n. sp.; BAVAY (34).

Indian Ocean:—*Marginella binotata*, n. sp.; SYKES (585): *Trochus* (*Lamprostoma*) *filiferus*, n. sp.; SCHEPMAN (504): N. spp. of *Creseis*, *Frocymbulia* (n. gen.), *Notobranchæa*, *Schizobrachium* (n. gen.) and *Thliptodon*; MEISENHEIMER (394).

Ceylon:—On Nudibranchs and Tectibranchs, with n. spp. of *Ægires*, *Aplysia*, *Aplysiella*, *Chromodoris*, *Dolabrifera*, *Galvina*, *Halgerda*, *Hervia*, *Linguella*, *Notarchus*, *Phyllaplysia*, *Platydor*, *Pleurobranchus*, and *Thordisa* (?); FARRAN (204): N. spp. of *Anatina*, *Callista*, *Cancellaria*, *Cerithiopsis*, *Cerithium*, *Clavatula*, *Columbella*, *Cultellus*, *Diala*, *Eulima*, *Fenella*, *Gastrana*, *Gena*, *Mangilia*, *Pyramidella*, *Retusa*, *Rissoina*, *Tornatina*, and *Turbonilla*; PRESTON (474): N. spp. of *Calliostoma*, *Clanculus*, *Columbella*, *Diplodonta*, *Ethalia*, *Euchelus*, *Fossarina*, *Fossarus*, *Minolia*, *Nerita*, *Omphalius*, *Scalaria*, *Scutellina*, *Solariella*, *Teinostoma*, and *Tritonidea*; SOWERBY (553).

Andamans:—N. spp. of *Pecten*; BAVAY (34).

Tonkin:—List of collection, with n. varr., notes on synonymy, and n. spp. of *Assimineia*, *Plecotrema*, and *Scintilla*; DAUTZENBERG & FISCHER (171).

East Indies:—Nudibranchs and Tectibranchs of the 'Siboga' Expedition, with n. spp. of *Aclesia*, *Anisodoris*, *Aplysia*, *Aplysiella*, *Aporodoris*, *Berthella*, *Carminodoris*, *Casella*, *Ceratosoma*, *Cerberilla*, *Chelidoneura*, *Chromodoris*, *Cratena*, *Diaulula*, *Discodoris*, *Doriopsilla*, *Doriopsis*, *Elysia*, *Ennoia*, *Flabellina*, *Gastropteron*, *Halgerda*, *Halla*, *Hervia*, *Hexabranchus*, *Marionia*, *Myrrhine* (n. gen.), *Nembrotha*, *Oscaniella*, *Oscanius*, *Peltodoris*, *Phanerophthalmus*, *Phestilla*, *Philine*, *Phyllaplysia*, *Phyllidia*, *Platydor*, *Pleurobranchæa*, *Pleurobranchus*, *Pleuroleura*, *Pleurophyllidia*, *Spurilla*, *Thordisa*, *Timorella* (n. gen.), *Trevelyana*, *Triopa*, *Trippa*, and *Tritonia*; BERGH (41): Polyplacophora, with n. spp. of *Acanthochites*, *Callistochiton*, *Callochiton*, *Chiton*, *Craspedochiton*, *Ischnochiton*, *Lepidopleurus*, *Leptoplax*, *Squamophora* (n. gen.), *Squamopleura* (n. gen.), and *Tonicia*; NIERSTRASZ (420).

Pacific Ocean:—Notes on some *Cerithiida*, with n. spp.; PILSBRY & VANATTA (467): *Aphelodoris pallida*, *Doriopsis punctatella*, n. spp.; BERGH (42).

Philippines:—List of Marine fauna completed; HIDALGO (285): *Latiavis kieneri*, n. sp.; HIDALGO (286).

Hawaiian Is.:—N. spp. of *Cerithium*; PILSBRY & VANATTA (465).

Marshall Is.:—Occurrence of *Leptoconchus*; SCHNEE (507).

Flint I.:—Shells from, with *Liotia voyi*, n. sp.; PILSBRY & VANATTA (463).

Caroline I.:—Shells from; PILSBRY & VANATTA (463).

Rapa I.:—*Pecten rapanensis*, n. sp.; BAVAY (32).

9. *Australo-Zealandic Province.*

Queensland:—Occurrence of *Cypræa xanthodon* at Bundaberg; ROBERTS, *Nautilus* xix, p. 12.

New South Wales:—Shells from off Cape Byron, with n. spp. of *Adacnarca*, *Adeorbis*, *Astele*, *Bathytoma*, *Bornia*, *Cerithiopsis*, *Cuspidaria*, *Cylichna*, *Linea*, *Liotia*, *Mangelia*, *Pseudorissoina*, and *Scala*; HEDLEY (268).

Victoria:—*Leuconopsis victoriae*, n. sp.; GATLIFF (223).

South Australia:—N. spp. of *Caledoniella* and *Lamellaria*; BASEDOW (29): Review of Nudibranchs, with n. spp. of *Albania* (?), *Archidoris*, *Ceratosoma*, *Halgerda*, *Hypselodoris*, and *Nembrotha* (?); BASEDOW & HEDLEY (30): *Leuconopsis tatei*, n. sp.; GATLIFF (223): Notes on shells, with n. spp. of *Astele*, *Calliostoma*, *Clanculus*, and *Gena*; VERCO (606).

Tasmania:—New species of *Acanthodoris*, *Aphelodoris*, and *Chromodoris*; BERGH (42): Critical notes on some spp. of Woods, several of which are not Tasmanian; HEDLEY (266): Notes on fauna; LODDER (367): Review of Tenison-Woods' types; MAY (391).

New Zealand:—*Pecten imparicostatus*, n. sp.; BAVAY (32): Notes on Nudibranchs; BENHAM (40): New species of *Aphelodoris*, *Chromodoris*, and *Goniodoris*; BERGH (42): Addenda to fauna, with n. spp. of *Cerithiopsis*, *Clathurella*, *Columbella*, *Crossea*, *Drillia*, *Leptothyra*, *Mitromorpha*, *Odostomia*, *Rissoa*, *Trophon*, and *Vulpecula*; MURDOCH (412): *Patellidæ*, with *Heliconiscus craticulatus*, n. sp., and n. subsp. of *H. stelliferus*; SUTER (574): Notes on *Chione*, with *C. subsulcata*, n. sp.; SUTER (573): Chitons, with n. spp. of *Ischnochiton* and *Plaxiphora*; SUTER (576): List of *Pleurotomidæ*; SUTER (572): Addenda to fauna, with n. spp. of *Astralium*, *Corbula*, *Eulimella*, *Rissoia*, *Rissoina*, *Standella*, and *Turbo*; WEBSTER (625).

10. *Japonic Province.*

Japanese Seas:—Shells, with new forms, and n. spp. of *Buccinum*, *Cingula*, *Dentalium*, *Eulima*, *Lithophaga*, *Macrocallista*, *Natica*, *Pecten*, *Phorcus*, *Siliqua*, *Torinia*, and *Trapezium*; PILSBRY (459): Notes on fauna; UCHIYAMA (601).

11. *Aleutian Province.*

List of Molluscs from Puget Sound; HARRINGTON & GRIFFIN, Tr. N. York Ac. xvi, p. 152.

12. *Californian Province.*

California:—Nudibranchs, with n. spp. of *Acanthodoris*, *Doridopsis*, *Janolus*, *Phyllobranchopsis* (n. gen.), and *Spurilla*; COCKERELL & ELIOT (128): A few Nudibranchs; COCKERELL, *Nautilus* xviii, p. 131: *Phacoides xantusi*, n. sp., DALL (147): N. spp. of *Admete*, *Erato*, *Leda*, *Mangilia*, and *Scissurella*; DALL (150): N. spp. of *Alaba* and *Murex*; DALL (153): Nudibranchs from Monterey Bay, with n. spp. of *Acanthodoris*, *Ægires*, *Ancula*, *Cadlina*, *Discodoris*, *Doriopsis*, *Hopkinsia* (n. gen.), *Laila* (n. gen.), *Montereina* (n. gen.), *Polycera*, *Rostanga*, and *Triopha*; MACFARLAND (376).

13. *Panamic Province.*

[None.]

14. *Peruvian Province.*

[None.]

15. *Antarctic Province.*

Antarctic:—Nudibranchs, with n. spp. of *Notæolideæ* (n. gen.), *Tritonia*, and *Tritoniopsis* (n. gen.); ELIOT (201): N. spp. of *Eledone*; JOUBIN (316).

Magellan province:—List of the *Trochidæ*, with n. spp. of *Calliostoma*, *Margarita*, and *Photinula*; STREBEL (568): Fauna, with n. spp. of *Actæon*, *Admete*, *Bela*, *Bittium*, *Columbella*, *Drillia*, *Euthria*, *Savatieria*, *Thesbia*, *Tornatina*, and *Turbonilla*; STREBEL (569).

Tierra del Fuego:—Shells, with n. spp. of *Chione*, *Mactra*, and *Photinula*; SMITH (543).

16. *Argentine Province.*

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17. *Caribbean Province.*

Brazil:—*Callistochiton porosus*, n. sp.; NIERSTRASZ (422).

Caribbean Sea:—*Geitodoris mollina*, n. sp.; BERGH (42).

Haiti:—Few shells from salt lagoon; DALL (158).

Bahamas:—Few shells from salt lagoon; DALL (158).

Nicaragua:—Fauna of Mosquito Coast; FLUCK (208).

18. *Transatlantic Province.*

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N.B.—The remarks given at the beginning of the preceding section, p. 39, also apply here.

Note on *Ryncholithes* and *Rynchoteuthis*; BORTOLOTTI, Riv. ital. Pal. xi, p. 121.—*Salarium granulatum*, Zek., renamed; BÖSE, Rev. paleozool. ix, p. 169.—*Lima expansa*, Sby., renamed; COSSMANN, Rev. paleozool. ix, p. 234.—Studies on *Rudistes*; DOUVILLÉ (191).—Form of aperture in *Ecoptychius refractus*; LISSAJOUS (361).—Types of several species figured, with notes; PALEONTOLOGIA UNIVERSALIS (436).—On the systematic position of *Palæorbis*; REIS (482).—Studies on *Hippurites*; TOUCAS (599).—Rectifications of nomenclature; UGOLINI, Rev. paleozool. ix, p. 117.

Few fossils from Canigou, France; DÉPÉRET, Soc. Pyrenees-or. xlvi, p. 421.—Forms from various strata in Dept. of Segré; DESMAZIÈRES (179).—Some fossils from near Derby and Burton-on-Trent; FOX-STRANGWAYS, Mem. geol. Surv. U. K., No. 141.—Fossils from near Déva; HALAVÁTS, Jahresb. Ungarn. geol. Anstalt 1903, p. 113.—Fossils from a deep boring near Bremen; JORDAN (312).—Few fossils from sheet of Die district; KILIAN, Bull. Soc. Isere vii, p. 73.—Few fossils from Cork; LAMPLUGH, &c., Geology, Cork, Mem. geol. Surv. Ireland.—Mollusca from well-borings near Amsterdam; LORIÉ (372).—Fossils from Alps of Dauphiné and Savoy; MATTE, Bull. Soc. Isere vi, p. 289.—Molluscs from Roumania, NOPCSA, Mt. Ungar. geol. Anstalt xiv, p. 149.—Fossils

from Jura of Neuchatel; SCHARDT, Bull. Soc. Neuchatel xxx, p. 404, xxxi, p. 253.—Lists of species from the Areuse District; SCHARDT & DUBOIS (502).—Age of *Inoceramus-strata* in Carpathians; WIŚNIOWSKI (649).

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Norway:—Glacial shells near Christiania; DANIELSEN (167).—Fauna of raised beaches of West Norway; REKSTAD (483).

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Germany:—Few diluvial fossils from Bavaria; BÄRTLING (27).—Shells from Loess near Regensburg; CLESSIN (122).—Postglacial fossils from near Lubeck; FRIEDRICH (210).—Diluvial fossils from Northwest Thuringia; KAISER & NAUMANN (319).—Few diluvial shells; SCHMIERER & SOENDEROP, Jahrb. Geol. Landesanst. Berlin xxiii, p. 544.—Diluvial shells from Neuhaldensleben; WIEGERS, Monatsb. Deutsch. geol. Ges. 1905, p. 2.—Fossils from Steensigmoos; GOTTSCHKE, Zeitschr. Deutsch. geol. Ges. lvi, Prot. p. 181.—Few shells from Mecklenberg; STEUSLOFF, Arch. Ver. Mecklenb. lix, p. 154.—Post-tertiary shells near Lübeck; FRIEDRICH & HEIDEN, Mt. Ges. Lubeck xx, p. 65.

France:—Brackish water fauna in plastic clay of Issy; CAYEUX, C.R. Ac. Sci. cxl, p. 1728.—Fossils from Durance Basin; MARTIN, Bull. Carte geol. France, No. 103.—Fossils from French Pyrenees; CAREZ (84).—Pleistocene shells from S. of France; CAZIOT & MAURY (100).

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- †*Columbites*, n. gen., type *C. parisianus*, n. sp., Trias, N. America; HYATT & SMITH (297), p. 50.
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- †*Gymnotropites*, n. subgen. of *Paratropites*, type *P. americanus*, n. sp., Trias, N. America; HYATT & SMITH (297), p. 56.
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- †*Megalyltoceras*, n. gen., 'genotype,' *Lytoceras confusum*, Buckm.; BUCKMAN, Quart. J. Geol. Soc. lxi, p. 150.
- †*Mojsisovicsites*, n. gen. for *M. crassecostatus*, n. sp., &c., Trias, Sicily; GEMMELLARO, Giorn. Soc. Palermo xxiv, p. 57.
- †*Nannolytoceras*, n. gen., 'genotype,' *Ammonites pygmaeus*, D'Orb.; BUCKMAN, Quart. J. Geol. Soc. lxi, p. 151.
- †*Neanites*, n. subgen. of *Clionites*, type *C. californicus*, n. sp., Trias, N. America; HYATT & SMITH (297), p. 189.
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- †*Paraceratites*, n. subgen. of *Ceratites* for *C. prior*, n. sp.; KITTL, Abh. geol. Reichsanst. xx, p. 29 [om. 1903].
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- Thalassia cookensis*, Cook's Is., p. 11, *cyrtochila*, S. Australia, p. 12 ; GUDE, J. Malac. xii, figg. : **n. spp.**
- Trochomorpha*, Philippine species described and figd. ; KOBELT (339) : *T. cultrata*, n. subsp. ; PILSBRY & HIRASE, P. Ac. Philad. 1905, p. 714 : *T. cultrata*, n. subsp. ; PILSBRY & HIRASE, t. c. p. 740 : *T. sapeca*, of which *T. hamonvillei* is a synonym, figd. ; DAUTZENBERG & FISCHER (171).
- Trochomorpha pellucida*, Formosa ; PILSBRY & HIRASE, P. Ac. Philad. 1905, p. 739 : **n. sp.**
- Trochonanina bonhouri, zeltneri*, figd. ; ROCHEBRUNE & GERMAIN (493).
- Trochonanina sykesi*, Marquesus ; GUDE, J. Malac. xii, p. 12, fig. : **n. sp.**
- Urocyclus ehlersi*, E. Africa ; SIMROTH, Zeitschr. wiss. Zool. lxxxii, Festschrift, p. 496, fig. : **n. sp.**
- Vaucheria*, Pallary, is founded on a valve of *Pollicipes* ; DAUTZENBERG (170).
- Vitrea tomlini*, Greece ; SMITH, P. Malac. Soc. London vi, p. 314, fig. : **n. sp.**
- Vitrina alaskana*, **n. n.** for *V. pfeifferi*, Newc. non Desh. ; DALL (165), p. 37 : *V. bozasi*, figd. ; ROCHEBRUNE & GERMAIN (493).
- Vitrina (?) jumjamensis* (Mlldff. MS.), N.E. Africa ; KOBELT, Nachrbl. Deutsch. malak. Ges. 1905, p. 127 : **n. sp.**
- Xesta citrina*, varieties figd. ; BULLEN, P. Malac. Soc. London vi, p. 191.
- Zonites insignis*, Naegle, figd. ; KOBELT in ROSSMÆSSLER (495), p. 21 : also in MARTINI & CHEMNITZ (387), p. 1208.

ARIONIDÆ.

- Arion*, sp. monstr., Germany ; SIMROTH, Zeitschr. wiss. Zool. lxxxii, Festschrift, p. 503, fig.

ENDODONTIDÆ.

- Charopa lifuana*, Loyalty Is., p. 12, *ochracea*, New Caledonia, p. 13 ; GUDE, J. Malac. xii, figg. : **n. spp.**
- Endodonta marsupialis*, Oahu, *kamehameha*, Molokai, p. 784, *concentrata*, Lanai ; PILSBRY & VANATTA, P. Ac. Philad. 1905, figg. : *E. (Nesophila) thaunumi*, p. 574, (*Thaumatodon*) *luctifera*, p. 575, Hawaiian Is. ; PILSBRY & VANATTA, P. Ac. Philad. 1905, figg. : *E. (Thaumatodon) quadridens*, New Caledonia ; GUDE, J. Malac. xii, p. 13, fig. : **n. spp.**

- Flammulina (Thalassohelix) laingi*, New Zealand; SUTER, J. Malac. xii, p. 19, fig. : n. sp.
Helix discors, Tasmania; PETTERD, P. Soc. Tasmania 1900-1901, p. 2 : n. sp.
Pterodiscus belongs to *Achatinellidæ*, q. v.; PILSBRY & VANATTA, P. Ac. Philad. 1905, p. 572.
Punctum lederi, Bttg., n. var.; BOETTGER, Nachrbl. Deutsch. malak. Ges. 1905, p. 102.
Punctum boreale, Japanese Empire; PILSBRY & HIRASE, P. Ac. Philad. 1905, p. 717 : *P. taiwanicum*, Formosa; PILSBRY & HIRASE, t. c. p. 746 : n. sp.

HELICIDÆ.

- Ashmunella*, review of genus with n. subspp. and n. varr.; PILSBRY (460).
Ashmunella fissidens, p. 243, *duplicidens*, *angulata*, p. 244, *ferrissi*, p. 247, *esuritor*, p. 249, *metamorphosa*, p. 252, Arizona; PILSBRY, P. Ac. Philad. 1905, figg. : n. spp.
Campylæa philippii, Naples; KOBELT, Nachrbl. Deutsch. malak. Ges. 1905, p. 10 : n. sp.
Cathaica hermanni, *sturanyana*, figd.; GUDE, J. Malac. xii, p. 11.
Cepolis duclosiana, Fér., n. var.; DALL (158), p. 38.
Cepolis (Hemitrochus) exumana, (*Plagioptycha*) *gregariana*, p. 37, (*P.*) *inaguana*, p. 38, Bahamas; DALL (158), figg.: *C. smirna*, p. 435, *androsi*, p. 436, Bahamas; DALL, Smithson. Collect. quart. xlvii, figg. : n. spp.
Chloritis fragilis, anatomy; PILSBRY (450): *C. pseudoprimum*, Pils., is a synonym of *C. pelodes*, Pfr.; FULTON, J. Malac. xii, p. 21: *C. (Sulcobasis) globosa*, Preston, n. var.; SMITH, Ann. Nat. Hist. xvi, p. 194.
Chloritis linteræ, Aru; GUDE, J. Malac. xii, p. 13, fig.: *C. malangensis*, Java; BULLEN, P. Malac. Soc. London vi, p. 192, fig. : n. spp.
Corilla humberti, anatomy; PILSBRY (450).
Dorcasia alexandri, anatomy; PILSBRY (450).
Draparnaudia singularis, Pfr., n. var.; ANCEY, Nautilus xix, p. 42.
Eulota mercatoria, *connivens*, n. subspp.; PILSBRY & HIRASE, P. Ac. Philad. 1905, p. 708: *E. fulvicans*, n. subsp.; PILSBRY & HIRASE, t. c. p. 731.
Eulota flexibilis, (*Euhadra*) *fiscina*, ?Saghalien I.; FULTON, Ann. Nat. Hist. xv, p. 92: *E. (Plectotropis) tokunovaga*, Japanese Empire; PILSBRY & HIRASE, P. Ac. Philad. 1905, p. 708: *E. (Plectotropis) impexa*, p. 730, (*P.*) *inrinensis*, (*P.*) *hebes*, p. 731, (*P.*) *perplexa*, p. 732, Formosa; PILSBRY & HIRASE, t. c. : n. spp.
Ganesella sororcula, n. subspp.; PILSBRY & HIRASE, P. Ac. Philad. 1905, p. 709: *G. albida*, n. subsp.; PILSBRY & HIRASE, t. c. p. 736.
Glyptostoma newberryanum, internal septa: GUDE, P. Malac. Soc. London vi, p. 283, fig.
Helicella caperata, sinistral; SHAW (517): Phylogeny; WIEGMANN (641).
Helicigona arbustorum, sinistral; KENNARD, P. Malac. Soc. London vi, p. 183.
Helicostyla nearnsi, Philippines; BARTSCH, Smithson. Miscell. quart. xlvii, p. 409, fig. : n. sp.
Helicidæ of S. Western United States; PILSBRY (460): Monograph continued; KOBELT in MARTINI & CHEMNITZ (387): Notes on Ethology; HESSE (281): Salivary glands; VIGIER & PACAUT (609); PACAUT (432): *H. aspersa*, dart in body-cavity; BARNES, P. Malac. Soc. London vi, p. 284: *H. aspersa*, in shell of *Limnæa*; BÜLOW (86): *H. candidissima*, note on, with distribution; CAZIOT (95): *H.*

- serpentina*, note on ; CAZIOT (93) : *H. vermiculata*, notes on ; CAZIOT (92) : *H. desertorum*, habitat & food ; COOKE (134) : *H. nemoralis* and *hortensis*, variation and crossing ; DARBISHIRE (168) : *H. balansui*, Morlet, n. var. ; DAUTZENBERG & FISCHER, J. Conchyl. liii, p. 90 : *H. lutescens, cavata*, n. varr. ; KOBELT in ROSSMÄSSLER (495) : *H. palavasensis*, n. n. for *Helix lineata*, Locard non Olivi ; GERMAIN, Bull. Soc. Elbeuf xxiii, p. 53 : *H. aspersa*, Müller, distribution ; GERMAIN (233) : *H. (Helicogena) secernenda*, var. *montenegrina*, Wohlberedt, figd. ; KOBELT in ROSSMÄSSLER (495), p. 19 : *H. aspersa*, nerve ganglia ; LEGENDRE (352-354) : *H. lutosinula*, n. n. for *H. luteata*, Locard non Parreyss ; LOCARD & GERMAIN, Mem. Ac. Lyon viii, p. 79 : *H. pomatia*, cytology of salivary glands ; PACAUT & VIGIER (433, 434) : *H. sequoicola*, n. subsp. ; ROWELL, Nautilus xix, p. 41 ; *H. ericetorum*, duplication of the eye ; WIEGMANN (640).
- Helix (Theba) ignorata*, Cilicia ; BOETTGER, Nachrbl. Deutsch. malak. Ges. 1905, p. 104, fig. ; *H. convente*, p. 41, (*Xerophila*) *subpapalis*, p. 42, S. France ; CAZIOT, Bull. Soc. zool. France xxx, figg. : *H. (Ganesella?) lamyi*, Tonkin ; DAUTZENBERG & FISCHER, J. Conchyl. liii, p. 91, fig. ; *H. germaini*, France ; LOCARD & GERMAIN, Mem. Ac. Lyon viii, p. 90, fig. : *H. (Helicogena) grothei*, Tripoli, p. 201, *kisonis*, p. 202, *engaddensis galilæa*, p. 203, *eduardi*, p. 205, Palestine, *rumelica magnifica*, p. 218, *castanea? quinquefasciata, lucorum hueti*, p. 220, Constantinople, *ancyrensis*, p. 222, Asia Minor ; KOBELT in MARTINI & CHEMNITZ (387) figg. : n. spp.
- Mællendorffia*, notes on group ; PILSBRY, Nautilus xix, p. 63 : *M. eucharistus*, n. subsp. ; PILSBRY & HIRASE, P. Ac. Philad. 1905, p. 710.
- Mællendorffia blaisei*, Tonkin ; DAUTZENBERG & FISCHER, J. Conchyl. liii, p. 99, fig. : *M. (Trihelix) hiraseana*, Formosa ; PILSBRY, Nautilus xix, p. 66, fig. : n. spp.
- Mællendorffiella*, n. subgen. of *Mællendorffia* for *M. erdmanni*, S. & B. ; PILSBRY, Nautilus xix, p. 64.
- Murella lauriensis*, p. 84, *castelluccensis*, p. 85, Calabria ; KOBELT, Nachrbl. Deutsch. malak. Ges. 1905 ; n. spp.
- Obbina*, Philippine species described & figd. ; KOBELT & WINTER (343).
- Oreohelix*, review of, with n. subsp. ; PILSBRY (460) : *O. strigosa*, n. subsp. ; COCKERELL, Nautilus xviii, p. 113.
- Oreohelix barbata*, p. 279, *yavapai*, p. 281, (*Radiocentrum*, n. subgen.) *chiricahuana*, p. 283, Arizona ; PILSBRY, P. Ac. Philad. 1905, figg. : n. spp.
- Papuina lilium* comes from Choiseul I., with note on *P. dampieri* ; SMITH (546).
- Papuina meekiana*, British New Guinea ; SMITH, Ann. Nat. Hist. xvi, p. 193, fig. : *P. lilium*, Solomon Is., (*Dendrotrochus*) *pumila*, p. 22, *suprapicta*, p. 23, New Ireland ; FULTON, J. Malac. xii, figg. : n. spp.
- Planispira zebra*, n. var. ; BULLEN, P. Malac. Soc. London vi, p. 191.
- Planispira (Cristigibba) tectorium*, New Guinea ; FULTON, J. Malac. xii, p. 23, fig. : *P. (Trachiopsis) blackiana*, British New Guinea ; PRESTON, P. Malac. Soc. London vi, p. 207, fig. : n. spp.
- Plectotropis leucochila*, Java ; GUDE, J. Malac. xii, p. 14, fig. : n. sp.
- Polygyra ferrissi*, n. subsp. ; FERRISS, Nautilus xix, p. 67 : *P. inflecta*, n. subsp. ; CLAPP, t. c. p. 74.
- Polygyra decepta*, Alabama ; CLAPP, Nautilus xix, p. 25, fig. : *P. smithii*, Alabama ; CLAPP, t. c. p. 73, fig. : n. spp.
- Pupisoma japonicum*, n. subsp. ; PILSBRY & HIRASE, P. Ac. Philad. 1905, p. 710.
- Radiocentrum*, n. subgen. of *Oreohelix*, type *O. chiricahuana*, n. sp. ; PILSBRY, t. c. p. 283.
- Solaropsis rugifera*, Dohrn, n. var. ; IHERING, Rev. Mus. Paulista, p. 456.

- Sonorella*, review of, with n. subspp. ; PILSBRY (460).
Sonorella virilis, Arizona ; PILSBRY, P. Ac. Philad. 1905, p. 266, fig. :
n. sp.
Stegodera, notes on ; PILSBRY, Nautilus xix, p. 63.
Thersites meridionalis, anatomy ; PILSBRY (450).
Thersites basedowi, South Australia ; HEDLEY, Tr. R. Soc. S. Austral.
 xxix, p. 161, fig. : **n. sp.**
Trigonephrus, **n. gen.**, type *Helix globulus* ; PILSBRY, P. Malac. Soc. vi,
 p. 286.
Xanthomelon sublevatum, *clydonigerum*, notes on ; HEDLEY, Tr. R. Soc.
 S. Austral. xxix, p. 162.
Xanthomelon radiatum, p. 163, *asperrimum*, p. 164, South Australia ;
 HEDLEY, t. c. figg. : **n. spp.**
Xanthonyx potosiana, Mexico ; DALL, Smithson. Collect. quart. xlviii,
 p. 190, fig. : **n. sp.**
Xerocampylæa, anatomy and systematic position ; HESSE (279).

BULIMIDÆ and BULIMULIDÆ.

- Amphidromus contrarius*, *perversus*, *enganoensis*, n. subspp. ; FRUHSTORFER
 (214).
Amphidromus (Goniodromus) bulowi, W. Sumatra ; FRUHSTORFER, Nachrbl.
 Deutsch. malak. Ges. 1905, p. 83, fig. : **n. sp.**
Bulinus rothschildianus, Abyssinia ; NEUVILLE & ANTHONY, Bull. Mus.
 Paris xi, p. 197 : **n. sp.**
Drymæus euryostomus, Phil., and *hamadryas*, Phil., are the same ; FULTON,
 J. Malac. xii, p. 21.
Drymæus regularis, Peru ; FULTON, t. c. p. 25, fig. : **n. sp.**
Goniodromus, **n. subgen.** of *Amphidromus*, no species named ; BÜLOW,
 Nachrbl. Deutsch. malak. Ges. 1905, p. 83 [*A. (G.) bulowi*, **n. sp.**,
 descr. on same page ; FRUHSTORFER].
Pilsbryella, **n. subgen.** of *Tomigerus* for *T. turbinatus*, &c. ; IHERING,
 P. Malac. Soc. London vi, p. 199.
Strophocheilus (Borus) rugosus, **n. n.** for *santacruzii*, Pfr. & Pilsbry non
 d'Orb. ; FULTON, J. Malac. xii, p. 23.
Strophocheilus (Borus) versatilis, Brazil (?), (*B.*) *semimalleatus*, Peru ;
 FULTON, t. c. p. 24, figg. : **n. spp.**
Tomigerus lævis, *rochai*, p. 197, *corrugatus*, p. 198, Ceara ; IHERING, P.
 Malac. Soc. London vi, figg. : **n. spp.**

BULIMINIDÆ, UROCOPTIDÆ, and PUPIDÆ.

- Balia malleyi*, S. France ; CAZIOT, Bull. Soc. zool. France xxx, p. 45, fig. :
 Also in Rev. Sci. Bourbonnais 1905, p. 99 : **n. sp.**
Buliminus, phylogeny ; WIEGMANN (641) : *B. albocostatus*, n. subsp., with
 figg. of *B. prusanus*, *sylvestris* ; KOBELT in ROSSMÆSSLER (495).
Buliminus larvatus (Ancy MS.), Transcaspia ; KOBELT in ROSSMÆSSLER
 (495), p. 21, fig. : **n. sp.**
Cerion glans, n. var. ; DALL, Smithson. Collect. quart. xlvii, p. 437 : *C.*
eleutheræ, n. var. ; DALL (158), p. 35.
Cerion (Strophioops) watlingense, p. 438, (*S.*) *inconspicuum*, p. 439, (*S.*)
variabile, p. 440, (*S.*) *brunneum*, (*S.*) *plegmatum*, p. 441, (*S.*) *northropi*,
 p. 442, *oweni*, p. 443, Bahamas ; DALL, Smithson. Collect. quart. xlvii,
 figg. : **n. spp.**
Clausilia ardouiniana, n. var. ; DAUTZENBERG & FISCHER (171).
Coryna biarmata, n. var. ; KOBELT in ROSSMÆSSLER (495).

- Eua* (*Pachnodus*) *mebeaniana*, Transvaal ; BURNUP, P. Malac. Soc. London vi, p. 302, fig. : **n. sp.**
- †*Eomegaspira*, Pils., is a synonym of *Paleostoa*, Andr. ; COSSMANN, Rev. paleozool. ix, p. 59.
- Hendersonia*, **n. gen.** for *H. palmeri*, **n. sp.**, Mexico ; DALL, Smithson. Collect. quart. xlviii, p. 187, fig. [Renamed *Hendersoniella*, q. v.]
- Hendersoniella*, **n. n.** for *Hendersonia*, Dall non Wagner ; DALL, P. Soc. Washington xviii, p. 189.
- Holospira ferrissi*, p. 215, *cionella*, p. 217, Arizona, *regis* (Pils. & Ckl.), p. 218, New Mexico, *chiricahuana*, p. 219, Arizona ; PILSBRY, P. Ac. Philad. 1905, figg. : **n. spp.**
- Jaminia proscripta*, Christmas Island ; SMITH, Ann. Nat. Hist. xvi, p. 551, fig. : **n. sp.**
- Nenia*, notes on, with list of, Peruvian species ; EHRMANN (195).
- Nenia callangana*, Peru ; EHRMANN, Nachrbl. Deutsch. malak. Ges. 1905, p. 65, fig. : **n. sp.**
- Pupidae*, nomenclature ; COCKERELL (123) : PILSBRY (451, 452) : DALL (149).
- Pupa anglica*, Fér., note on ; MARGIER (381) : *P. raymondi*, Mouss., **n. var.** ; ROSEN, Nachrbl. Deutsch. malak. Ges. 1905, p. 57.
- Pupillidae*, see under *Pupidae*.
- Urocoptidae* of S. Western United States ; PILSBRY (460).
- Vertigo substriata*, sinistral ; STANDEN (557) : *V. hirasei*, **n. subsp.** ; PILSBRY & HIRASE, P. Ac. Philad. 1905, p. 718.
- Vertigo perryi*, Rhode Island ; STERKI, Nautilus xix, p. 53 : **n. sp.**

STENOGYRIDÆ and ACHATINELLIDÆ.

- Achatinida*, monograph continued ; PILSBRY in TRYON (600) : *A. passargei*, Mtns., figd. ; MARTENS (385), p. 754 : *A. gracilior*, Bttgr., is a synonym of *A. papyracea* var. *adelinæ*, Pils. ; ANON., Nautilus xix, p. 96 : *A. schweinfurthi*, **n. var.** ; GERMAIN, Bull. Mus. Paris xi, p. 251, fig.
- Achatina modestior*, Cameroons ; BOETTGER, Nachrbl. Deutsch. malak. Ges. 1905, p. 167, fig. : *A. morrelli*, Zambesi River ; PRESTON, P. Malac. Soc. London vi, p. 244, fig. : **n. spp.**
- Amastra alata* (Pfr.), figd. ; PILSBRY & VANATTA, P. Ac. Philad. 1905, p. 571.
- Amastra* (*Helicamastra*, **n. sect.**) *discus*, Oahu ; PILSBRY & VANATTA, t. c. p. 571, fig. : **n. sp.**
- Archachatina rhodostoma*, p. 115, *papyracea*, p. 117, **n. varr.** ; PILSBRY in TRYON (600).
- Bacillum orthoceras*, G.-Austen, **n. subsp.** ; PILSBRY in TRYON (600), xviii, p. 3.
- Cæcilianella minuta*, Mouss., figd. ; BOETTGER, Nachrbl. Deutsch. malak. Ges. 1905, p. 112.
- Curvella daillyana*, **n. n.** for *C. sulcata*, D'Ailly non Chaper ; PILSBRY in TRYON (600), xviii, p. 48.
- Curvella redfieldi*, p. 49, *liberiana*, p. 50, Liberia ; PILSBRY in TRYON (600), xviii, figg. : *C. crosleyi*, p. 302, *straminea*, *succinea*, p. 303, *elevata*, p. 304, South Africa ; BURNUP, P. Malac. Soc. London vi, figg. : **n. spp.**
- Cyclamastra*, **n. sect.** of *Amastra*, type *A. cyclostoma*, Baldwin ; PILSBRY & VANATTA, P. Ac. Philad. 1905, p. 750.
- Euonyma turriiformis*, Krauss, **n. subsp.** ; PILSBRY in TRYON (600), xviii, p. 44.
- Helicamastra*, **n. sect.** of *Amastra*, type *A. discus*, **n. sp.** ; PILSBRY & VANATTA, P. Ac. Philad. 1905, p. 570.
- Homorus erlangeri*, *garamulata*, p. 129, *obesus*, p. 130, *ellerbecki*, *ginirensis*, p. 131, N. E. Africa ; KOBELT, Nachrbl. Deutsch. malak. Ges. 1905 :

- H. pattalus*, p. 147, *opeas*, p. 151, West Africa; PILSBRY in TRYON (600), figg. : **n. spp.**
- Limicolaria flammulata*, n. var.; BOETTGER, Nachrbl. Deutsch. malak. Ges. 1905, p. 172, fig.: *L. joubini*, figd.; ROCHEBRUNE & GERMAIN (493).
- Limicolaria centralis*, French Soudan; GERMAIN, Bull. Mus. Paris x, p. 467 : **n. sp.**
- Obeliscus natalensis*, South Africa; BURNUP, P. Malac. Soc. London vi, p. 304, fig. : **n. sp.**
- Opeas opella*, Honolulu; PILSBRY & VANATTA, P. Ac. Philad. 1905, p. 785, fig. : **n. sp.**
- Paropeas*, **n. subgen.** of *Prosopeas*, type *P. acutissimum*, Mousson; PILSBRY in TRYON (600), xviii, p. 14.
- Petriola*, **n. n.** for *Trichodina*, Ancey non Ehrenberg; DALL, Nautilus xviii, p. 143.
- Prosopeas acutissimum*, Mousson, n. var., p. 23, *anceyi*, **n. n.** for *P. macilentum*, Ancey non Reeve, p. 33; PILSBRY in TRYON (600), xviii.
- Prosopeas holosericum* (Boettger), Java and Sumatra; PILSBRY in TRYON (600), xviii, p. 24, fig. : **n. sp.**
- Pterodiscus*, notes on genus and species, which belong to *Achatinellidæ*; PILSBRY & VANATTA, P. Ac. Philad. 1905, p. 572.
- Rumina decollata*, note upon, with distribution; CAZIOT (97).
- Serpæa foai*, Tanganyika; GERMAIN, Bull. Mus. Paris xi, p. 255 : **n. sp.**
- Stenogyridæ*, monograph commenced; PILSBRY in TRYON (600).
- Stenogyra rothschildiana*, Abyssinia; NEUVILLE & ANTHONY, Bull. Mus. Paris xi, p. 115 : **n. sp.**
- Subulina kassaiana*, figd.; ROCHEBRUNE & GERMAIN (493).
- Tornatellina rucuana*, Japanese Empire; PILSBRY & HIRASE, P. Ac. Philad. 1905, p. 718 : **n. sp.**
- Tortaxis*, **n. gen.**, type *Achatina erecta*, Bens., p. 5, with *T. lubricus* (Dtz.), ?**n. sp.**, Tonkin, p. 11; PILSBRY in TRYON (600), xviii.
- Trichodina*, Ancey, renamed *Petriola*, q. v. : *T. monacha*, Morel, n. var.; PILSBRY in TRYON (600), p. 189.
- Trichodina aratispira*, West Africa; PILSBRY in TRYON (600), p. 187, fig. : **n. sp.**

SUCCINEIDÆ, VERONICELLIDÆ and ONCHIDIIDÆ.

- Arctonchis*, **n. sect.** of *Onchidella*, type *O borealis*, Dall; DALL (165), p. 112.
- Onchidium verruculatum*, anatomy; FARRAN (204), p. 358.
- Succinea brumpti*, figd.; ROCHEBRUNE & GERMAIN (493).
- Succinea moussoni*, Kalahari; MARTENS (385), p. 755, fig. : *S. ordinaria*, Tierra del Fuego; SMITH, P. Malac. Soc. London vi, p. 338, fig. : *S. floridana*, Florida; PILSBRY, Nautilus xix, p. 40 : *S. indiana*, Indiana; PILSBRY, t. c. p. 28 : **n. spp.**
- Veronicella schivelyæ*, n. var.; DALL, Smithson. Collect. quart. xlvii, p. 446.

BASOMMATOPHORA.

AURICULIDÆ, LIMNÆIDÆ, PHYSIDÆ and CHILINIDÆ.

- Amphipeplea arguta*, radula; SUTER, Tr. N. Zealand Inst. xxxvii, p. 251.
- Ancylus marieæ*, Tasmania; PETTERD, P. Soc. Tasmania 1900 & 1901, p. 1 : **n. sp.**
- Carychium nannodes*, Alabama; CLAPP, Nautilus xix, p. 91, fig. : **n. sp.**

- Cassidula labrella, paludosa*, n. subsp.; PILSBRY & HIRASE, P. Ac. Philad. 1905, p. 718.
- Chilina fuegiensis*, Tierra del Fuego; SMITH, P. Malac. Soc. London vi, p. 339, fig.: n. sp.
- Celostele cylindrata*, Cilicia; BOETTGER, Nachrbl. Deutsch. malak. Ges. 1905, p. 109, fig.: n. sp.
- Cyclolimnæa*, n. sect. of *Limnæa*, type *L. involuta*, Harvey; DALL (165), p. 64.
- Gundlachia lucasi*, New Zealand; SUTER, Tr. N. Zealand Inst. xxxvii, p. 250, fig.: *G. neozelanica*, New Zealand; SUTER, t. c. p. 258: n. spp.
- Haldemanina*, n. sect. of *Planorbula*, type *Planorbis wheatleyi*, Lea; DALL (165), p. 97.
- Isidora*, review of New Zealand species, with n. subsp. of *I. lirata*, Woods; SUTER, Tr. N. Zealand Inst. xxxvii, p. 267: *I. tabulata, lirata, radula*; SUTER, t. c. p. 252.
- Laimodonta bronni*, n. var.; DAUTZENBERG & FISCHER (171).
- Leuconopsis victoriae*, Victoria, p. 11, *tatei*, South Australia, p. 12; GATLIFF, Victorian Natural. xxii, figg.: n. spp.
- Limnæa*, critical notes on some American forms; BAKER (20): Genitalia; BAKER (19): *L. stagnalis*, n. var.; BAKER, Nautilus xviii, p. 142: *L. stagnalis*, umbilicate var.; HUTTON, J. Conch. xi, p. 144: *L. parva*, Lea, notes on; BAKER, Nautilus xix, p. 52: *L. parva*, Caziot, is preoccupied; COCKERELL, J. Malac. xii, p. 89: *L. undussumæ*, Martens, n. var.; GERMAIN, Bull. Mus. Paris x, p. 467: *L. peregra* and *ovata*, notes; BROCKMEIER (66): *L. nimoulensis*, figd.; ROCHEBRUNE & GERMAIN (493).
- Limnæa fulconica*, p. 43, *guebhardi*, p. 44, S. France; CAZIOT, Bull. Soc. zool. France xxx, figg.: *L. blaisei*, Tonkin; DAUTZENBERG & FISCHER, J. Conchyl. liii, p. 116, fig.: *L. petersi*, p. 66, Alaska, *preblei*, Alaska and Manitoba, p. 70, (*Stagnicola*?) *perpolita*, p. 78, Alaska, (*S.*) *anticostiana*, p. 79, Anticosti I.; DALL (165), figg.: *L. sterkii*, Ohio; BAKER, Nautilus xix, p. 51: *L. owascoensis*, New York, *bryanti*, California; BAKER, op. cit. xviii, p. 141: n. spp.
- Paraspira*, n. sect. of *Tropidiscus*, type *Planorbis rotundatus*, Poiret; DALL (165), p. 86.
- Physa fontinalis*, embryology; WIERZEJSKI (642): *P. rhomboidea*, Crandall, name is preoccupied; COCKERELL, Nautilus xix, p. 96.
- Physa layardi*, Vate I.; ANCEY, Nautilus xix, p. 44: n. sp.
- Physopsis didieri*, figd.; ROCHEBRUNE & GERMAIN (493).
- Pierosoma*, n. sect. of *Helisoma* for *Planorbis trivolvis*, Say; DALL (165), p. 81.
- Planorbis campanulatus, exacuouus*, n. varr.; DALL (165): *P. bozasi*, figd.; ROCHEBRUNE & GERMAIN (493): *P. abyssinicus*, n. var.; GERMAIN, Bull. Mus. Paris x, p. 353.
- Planorbis tetragonostoma*, Lake Tchad; GERMAIN, Bull. Mus. Paris x, p. 467: *P. lamyi*, Tanganyika; GERMAIN, op. cit. xi, p. 256: n. spp.
- Planorbula tchadiensis*, Lake Tchad; GERMAIN, op. cit. x, p. 468: n. sp.
- Plecotrema punctigerum*, Ad., figd.; DAUTZENBERG & FISCHER (171).
- Plecotrema blaisei*, Tonkin; DAUTZENBERG & FISCHER, J. Conchyl. liii, p. 112, fig.: n. sp.
- Segmentina (Planorbula) christyi*, Alaska and Manitoba; DALL (165), p. 99, fig.: *S. chevalieri*, Lake Tchad; GERMAIN, Bull. Mus. Paris x, p. 468: n. spp.
- Torquis*, n. sect. of *Gyraulus*, type *Planorbis parvus*, Say; DALL (165), p. 86.
- Zospeum venetum*, p. 3, *lyratum*, p. 4, Italy; POLLONERA, Proteus iii, figg.: n. spp.

SIPHONARIIDÆ and AMPHIBOLIDÆ.

- Ampullarina minuta*, Woods, is young of *A. fragilis*; MAY, P. Soc. Tasmania 1902, p. 113.
Siphonaria, homing; WILLCOX (644).

OPISTHOBRANCHIATA.

NUDIBRANCHIATA.

- Illustrations of, and notes on, South Australian species; BASEDOW & HEDLEY (30).
 Nudibranchs of the Siboga Expedition, with anatomy, &c.; BERGH (41).
 Critical notes on Pacific Nudibranchs; ELIOT (199).
 Notes on Californian species; MACFARLAND (376).
 Nudibranchs, maturation; SMALLWOOD (536).
Acanthodoris metulifera, Tasmania; BERGH (42), p. 98, fig.: *A. rhodoceras*, California; COCKERELL & ELIOT, J. Malac. xii, p. 38, fig.: *A. hudsoni*, p. 51, *brunnea*, p. 52, California; MACFARLAND, P. Soc. Washington xviii: n. spp.
Ægires villosus, Ceylon; FARRAN (204), p. 346, fig.: *Æ. albopunctatus*, California; MACFARLAND, P. Soc. Washington xviii, p. 45: n. spp.
Albania (?) *verconis*, South Australia; BASEDOW & HEDLEY, Tr. R. Soc. S. Austral. xxix, p. 154, fig.: n. sp.
Ancula pacifica, California; MACFARLAND, P. Soc. Washington xviii, p. 53: n. sp.
Anisodoris sibogæ, p. 96, (?) *timorensis*, p. 97, East Indies; BERGH (41), figg.: n. spp.
Aphelodoris luctuosa, Tasmania, p. 75, *purpurea*, New Zealand, p. 77, *pallida*, Pacific Ocean, p. 78; BERGH (42), figg.: n. spp.
Aporodoris (?) *rubra*, East Indies; BERGH (41), p. 94, fig.: n. sp.
Archidoris staminea, South Australia; BASEDOW & HEDLEY, Tr. R. Soc. S. Austral. xxix, p. 151, fig.: n. sp.
Cadlina marginata, *flavomaculata*, California; MACFARLAND, P. Soc. Washington xviii, p. 43: n. spp.
Carminodoris blandula, East Indies; BERGH (41), p. 111, fig.: n. sp.
Casella rubra, Flores; BERGH (41), p. 163, fig.: n. sp.
Cephalopyge, n. gen. for *Phyllirhoe trematoides*, Chun; HANEL, Zool. Jahrb. Syst. xxi, p. 451.
Ceratosoma bicornis, East Indies; BERGH (41), p. 167, fig.: *C. adalaidæ*, S. Australia; BASEDOW & HEDLEY, Tr. R. Soc. S. Austral. xxix, p. 156, fig.: n. spp.
Cerberilla ambonensis, Amboyna; BERGH (41), p. 225, fig.: n. sp.
Chromodoridella, n. gen. for *C. mirabilis*, n. sp. Natal; ELIOT, P. Malac. Soc. London vi, p. 233.
Chromodoris universitatis, Cockerell, and *tenuilinearis*, Farran, equal *C. californiensis*, Bergh, and *nigrostriata*, Eliot; COCKERELL & ELIOT, J. Malac. xii, p. 37.
Chromodoris tenuilinearis, Ceylon; FARRAN (204), p. 342, fig.: *C. tasmaniensis*, Tasmania, p. 69, *ægiulia*, California, p. 70, *figurata*, p. 71, *atopa*, p. 73, New Zealand; BERGH (42), figg.: *C. flammulata*, p. 151, *marpessa*, p. 152, *venusta*, *ophthalmica*, p. 153, *nodulosa*, p. 154, *pantherina*, p. 155, *papulosa*, p. 156, *sibogæ*, *inopinata*, p. 157, *lactea*, p. 159, *clitonota*, p. 160, *virgata*, p. 161, East Indies; BERGH (41), figg.: n. spp.
Cratena cucullata, Gisser I.; BERGH (41), p. 230, fig.: n. sp.

- Diaulula* (?) *gigantea*, p. 119, Roma I., (?) *rubra*, p. 120, Sula-Besi ; BERGH (41), figg. : n. spp.
- Dirona* (McFarland MS), n. gen. for *D. picta*, *albolineata*, McFarland ; COCKERELL & ELIOT, J. Malac. xii, p. 45.
- Discodoris labifera*, Abr., note on ; FARRAN (204), p. 335.
- Discodoris heathi*, California ; MACFARLAND, P. Soc. Washington xviii, p. 39 : *D.* (?) *sibogæ* [= *D. rubra*, Bergh, post, p. 248], p. 104, (?) *litturata*, p. 106, (?) *lutescens*, p. 107, (?) *versicolor*, p. 108, East Indies ; BERGH (41), figg. : n. spp.
- Doridopsis*, notes on species ; ELIOT (200).
- Doridopsis reticulata* ; COCKERELL & ELIOT, J. Malac. xii, p. 41, fig. : n. sp.
- Doriopsisilla* (?) *lævis*, off Timor ; BERGH (41), p. 179, fig. : n. sp.
- Doriopsis fulva*, California ; MACFARLAND, P. Soc. Washington xviii, p. 45 : *D. punctatella*, Pacific Ocean ; BERGH (42), p. 87, fig. : *D. erubescens*, p. 173, *amæna*, p. 174, *flaccida*, *weberi*, p. 175, East Indies ; BERGH (41), figg. : n. spp.
- Doto africana*, E. Africa ; ELIOT, P. Zool. Soc. London 1904, ii, p. 285 : n. sp.
- Elysia marginata*, Pease, figd. ; ELIOT (200).
- Elysia dubia*, E. Africa ; ELIOT, P. Zool. Soc. London 1904, ii, p. 297, fig. : *E. thysanopoda*, Kei Is., p. 84, (?) *lineolata*, Saleyer, p. 85, *haingsisiana*, Haingsisi, p. 87 ; BERGH (41), figg. : n. spp.
- Ennoia longicirra*, Aru Is. ; BERGH (41), p. 234, fig. : n. sp.
- Facelina lineata*, E. Africa ; ELIOT, P. Zool. Soc. London 1904, ii, p. 288, fig. : n. sp.
- Flabellina* (?) *macassarana*, Macassar ; BERGH (41), p. 237, fig. : n. sp.
- Galvina producta*, Ceylon ; FARRAN (204), p. 332, fig. : n. sp.
- Geitodoris planata*, Alder & Hancock, note on ; ELIOT (196).
- Geitodoris mollina*, Caribbean Sea ; BERGH (42), p. 66, fig. : n. sp.
- Goniodoris punctata*, New Zealand ; BERGH (42), p. 91, fig. : n. sp.
- Halgerda punctata*, Ceylon ; FARRAN (204), p. 339, fig. : *H. graphica*, South Australia ; BASEDOW & HEDLEY, Tr. R. Soc. S. Austral. xxix, p. 152, fig. : *H. elegans*, Gunong-Api, p. 124, *rubra*, Banda, p. 126, *inornata*, Karakelang Is., p. 128 ; BERGH (41), figg. : n. spp.
- Halla indecora*, Aru Is. ; BERGH (41), p. 116, fig. : n. sp.
- Hero formosa*, n. var. ; ELIOT, P. Malac. Soc. London vi, p. 239.
- Hervia ceylonica*, Ceylon ; FARRAN (204), p. 331, fig. : *H. sibogæ*, Kangean I. ; BERGH (41), p. 231, fig. : *H. lineata*, E. Africa ; ELIOT, P. Zool. Soc. London 1904, ii, p. 286, fig. : n. spp.
- Hexabranchnus*, notes on species ; ELIOT (200).
- Hexabranchnus punctatus*, Borneo ; BERGH (41), p. 92, fig. : n. sp.
- Hopkinsia*, n. gen. for *H. rosacea*, n. sp., California ; MACFARLAND, P. Soc. Washington xviii, p. 53.
- Hypselodoris epicuria*, South Australia ; BASEDOW & HEDLEY, Tr. R. Soc. S. Austral. xxix, p. 153, fig. : n. sp.
- Janolus cæruleopictus*, California ; COCKERELL & ELIOT, J. Malac. xii, p. 48, fig. : n. sp.
- Kalinga ornata*, A. & H., radula ; FARRAN (204), p. 347.
- Laila*, n. gen. for *L. cockerelli*, n. sp., California ; MACFARLAND, P. Soc. Washington xviii, p. 46.
- Linguellu cinerea*, Ceylon ; FARRAN (204), p. 334, fig. : n. sp.
- Marionia distincta*, p. 206, *tessellata*, p. 207, East Indies ; BERGH (41), figg. : n. spp.
- Montereina*, n. gen. for *M. nobilis*, n. sp., California ; MACFARLAND, P. Soc. Washington xviii, p. 38.
- Myrrhine*, n. gen., p. 226, for *M. longicirra*, n. sp., p. 227, Saleyer ; BERGH (41), fig.
- Nembrotha rubropapulosa*, p. 198, *amitina*, (?) *rubroocellata*, p. 201, East

- Indies; BERGH (41), figg. : *N. (?) verconis*, South Australia; BASEDOW & HEDLEY, Tr. R. Soc. S. Austral. xxix, p. 158, fig. : **n. spp.**
- Nirva*, **n. gen.** for *Doris (?) brockii*, Bergh; BERGH (41), p. 117.
- Notaeolidea*, **n. gen.** for *N. gigas*, p. 520, *purpurea*, p. 524, **n. spp.**, S. Orkneys; ELIOT, Tr. R. Soc. Edinb. xli, figg.
- Orodoris striata*, E. Africa; ELIOT, P. Zool. Soc. London 1904, ii, p. 269 : **n. sp.**
- Peltodoris rubescens*, Kabaena I.; BERGH (41), p. 134, fig. : **n. sp.**
- Phestilla sibogæ*, Rotte I.; BERGH (41), p. 232, fig. : **n. sp.**
- Phidiana tenuis*, E. Africa; ELIOT, P. Zool. Soc. London 1904, ii, p. 287 : **n. sp.**
- Phyllidia*, notes on species; ELIOT (200).
- Phyllidia caelestis*, Saleyer; BERGH (41), p. 182, fig. : **n. sp.**
- Phyllobranchopsis*, **n. gen.** for *P. enteromorphæ*, **n. sp.**, California; COCKERELL & ELIOT, J. Malac. xii, p. 52, fig.
- Placobranchus ocellatus*, Van Hasselt, figd.; ELIOT (200).
- Platydorid inframaculata*, note on; FARRAN (204), p. 336.
- Platydorid townsendi*, Maskat; ELIOT, J. Conch. xi, p. 253, fig. : *P. flammulata*, Borneo, p. 138, *sanguinea*, Saleyer, p. 139; BERGH (41), figg. : *P. herdmani*, p. 337, (?) *spinulosa*, p. 338, Ceylon; FARRAN (204), figg. : **n. spp.**
- Pleuroleura pallida*, Kei Is., *suluensis*, Sulu Archipelago; BERGH (41), p. 212, figg. : **n. spp.**
- Pleurophyllidia formosa*, Kel., notes on; FARRAN (204), p. 333.
- Pleurophyllidia rosea*, p. 213, *stenidia*, p. 214, East Indies; BERGH (41), figg. : **n. spp.**
- Polycera quadrilineata* (Müller), genital system; POHL (468).
- Polycera atra*, California; MACFARLAND, P. Soc. Washington xviii, p. 50 : **n. sp.**
- Rostanga pulchra*, California; MACFARLAND, t. c. p. 40 : **n. sp.**
- Spirilla chromosoma*, California; COCKERELL & ELIOT, J. Malac. xii, p. 51 : *S. orientalis*, Kei I.; BERGH (41), p. 223, fig. : **n. spp.**
- Stiliger varians*, p. 290, *irregularis*, p. 291, East Africa; ELIOT, P. Zool. Soc. London 1904, ii, figg. : **n. spp.**
- Thecacera maculata*, Karachi; ELIOT, J. Conch. xi, p. 241 : **n. sp.**
- Thordisa (?) caudata*, Ceylon; FARRAN (204), p. 340, fig. : *T. tristis*, Aru Is., p. 121, *hilaris*, Saleyer, p. 122, (?) *maculosa*, Borneo, p. 123; BERGH (41), figg. : **n. spp.**
- Timorella*, **n. gen.** for *T. perplexa*, **n. sp.**, Timor; BERGH (41), p. 241, fig.
- Trevelyana rubra*, *rubromaculata*, p. 189, *rubropapulosa*, p. 191, (?) *defensa*, p. 192, East Indies; BERGH (41), figg. : **n. spp.**
- Triopa longicornis*, (?) *tristis*, East Indies; BERGH (41), p. 186, figg. : **n. spp.**
- Triopha maculata*, p. 49, *grandis*, p. 50, California; MACFARLAND, P. Soc. Washington xviii : **n. spp.**
- Trippa affinis*, Savu; BERGH (41), p. 131, fig. : **n. sp.**
- Tritonia pallida*, Stimpson, note on; ELIOT, Tr. R. Soc. Edinb. xli, p. 528.
- Tritonia olivacea*, p. 204, *irrorata*, p. 205, East Indies; BERGH (41), figg. : *T. appendiculata*, S. Orkneys; ELIOT, Tr. R. Soc. Edinb. xlii, p. 526, fig. : **n. spp.**
- Tritoniopsis*, **n. gen.** for *T. brucei*, **n. sp.**, Gough I.; ELIOT, t. c. p. 530, fig.

TECTIBRANCHIATA (including PTEROPODA).

- Tectibranchs of the Siboga Expedition, with anatomy, etc.; BERGH (41).
- Anatomy and distribution of Pteropods; MEISENHEIMER (394).
- Distribution of Pteropods; MEISENHEIMER, Zool. Anz. xxix, pp. 155-163, 1 map.

- Acera bullata*, biology ; LEGENDRE (355).
Aclesia varicolor, Kur Is., p. 21, *pusilla*, Paternoster Is., p. 22 ; BERGH (41), figg. : n. spp.
Actæon ringei, Le Maire Straits, Patagonia ; STREBEL, Zool. Jahrb. Syst. xxii, p. 576, fig. : n. sp.
Aplysia, physiology of stomach-muscles ; BRÜCKE (71) : *A. cornigera*, Sby., p. 349, *elongata*, Pease, p. 350, notes on ; FARRAN (204).
Aplysia intermedia, Ceylon ; FARRAN (204), p. 351, fig. : *A. scripta*, Amboyna, p. 4, *atromarginata*, p. 8, East Indies, *sibogæ*, p. 9, Timor, *vexans*, p. 10, Amboyna, *velifer*, p. 11, Flores ; BERGH (41), figg. : n. spp.
Aplysiella mollis, Ceylon ; FARRAN (204), p. 353, fig. : *A. pasirana*, East Indies, p. 24, *viridis*, Paternoster Is., p. 25 ; BERGH (41), figg. : n. spp.
Berthella borneensis, Borneo, p. 69, *minor*, p. 70, Sulu Archipelago, *inoperta*, Damar Is., p. 73 ; BERGH (41), figg. : n. spp.
Bulla gallica, France (Atlantic and Mediterranean), p. 42, *subquadrata*, Monts., Mediterranean, p. 43 ; LOCARD, Ann. Soc. Agric. Lyon ii : n. spp.
Chelidonura velutina, p. 43, *amæna*, p. 45, Saleyer ; BERGH (41), figg. : n. spp.
Creseis caliciformis, S. Indian Ocean ; MEISENHEIMER (394), p. 308, fig. : n. sp.
Cylichna striata, Hutton, note and fig. ; MURDOCH, Tr. N. Zealand Inst. xxxvii, p. 218 : *C. atkinsoni*, Woods, figured ; MAY, P. Soc. Tasmania 1902, p. 113.
Cylichna tenuis, New South Wales ; HEDLEY, Rec. Austral Mus. vi, p. 54, fig. : n. sp.
Dolabrifera maillardi, Desh., p. 353, *scapula*, Mart., p. 354, notes on ; FARRAN (204).
Dolabrifera marginata, Ceylon ; FARRAN (204), p. 354, fig. : n. sp.
Frocymbulia, n. gen., p. 13, for *P. valdiviæ*, n. sp., p. 14, N. of New Amsterdam Is. ; MEISENHEIMER (394), fig.
Gastropteron sibogæ, Paternoster Is. ; BERGH (41), p. 32, fig. : n. sp.
Halopsyche gaudichaudi, anatomy ; MEISENHEIMER (394).
Limacina contorta, Monts., figured ; SYKES (586).
Notarchus ceylonicus, Ceylon ; FARRAN (204), p. 355, fig. : n. sp.
Notobranchæa valdiviæ, Indian Ocean ; MEISENHEIMER (394), p. 55, fig. : n. sp.
Ophthalmidæ, new group for *Phanerophthalmus*, etc. ; BERGH (41).
Oscaniella albiguttata, p. 58, *lugubris*, p. 60, *purpurascens*, p. 62, *dubia*, p. 63, *inermis*, p. 64, *modesta*, p. 65, East Indies ; BERGH (41), figg. : n. spp.
Oscanius weberi, Saleyer, etc., p. 53, *sibogæ*, p. 55, *papuligerus*, Kei Is., p. 56 ; BERGH (41), figg. : n. spp.
Phanerophthalmus pauper, East Indies ; BERGH (41), p. 37, fig. : n. sp.
Philine aperta, eggs ; SCHIMKEWITSCH (505, 506) : Three European spp. figured, with *P. talismani*, n. n. for *P. striatula*, Locard non Jeffreys ; SYKES (586).
Philine rubra, Taam Is., p. 29, *elegans*, East Indies, p. 31 ; BERGH (41), figg. : n. spp.
Phyllaplysia inornata, Kur Is. ; BERGH (41), p. 27, fig. : *P. albomaculata*, p. 351, *pellucida*, p. 352, Ceylon ; FARRAN (204), figg. : n. spp.
Pleurobranchæa bröcki, Bergh, notes on ; FARRAN (204), p. 355.
Pleurobranchæa morula, Paternoster Is. ; BERGH (41), p. 48, fig. : n. sp.
Pleurobranchus citrinus, Rupp. & Leuck., note on ; FARRAN (204), p. 356.
Pleurobranchus hornelli, Ceylon ; FARRAN (204), p. 357, fig. : *P. griseus*, p. 66, *latipes*, p. 67, East Indies ; BERGH (41), figg. : n. spp.

- Pneumoderma eurycotylum*, Gulf of Guinea; MEISENHEIMER (394), p. 51, fig.: n. sp.
Pneumodermopsis macrochira, S. Atlantic and S. Indian Oceans; MEISENHEIMER (394), p. 47, fig.: n. sp.
Retusa serendibensis, Ceylon; PRESTON, J. Malac. xii, p. 1, fig.: n. sp.
Schizobrachium, n. gen., p. 51, for *S. polycotylum*, n. sp., p. 52, S. Indian Ocean; MEISENHEIMER (394), fig.
Thliptodon diaphanus, Gulf of Guinea and E. Indian Ocean; MEISENHEIMER (394), p. 59, fig.: n. sp.
Tornatina detruncata, Monts., Mediterranean; LOCARD, Ann. Soc. Agric. Lyon ii, p. 60: *T. tenuistriata*, Ceylon; PRESTON, J. Malac. xii, p. 1, fig.: *T. (Utriculus) paessleri*, Patagonia; STREBEL, Zool. Jahrb. Syst. xxii, p. 577, fig.: n. spp.

NUCLEOBRANCHIATA.

Heteropoda, heart and excretory organ; RYWOSCH (500).

PROSOBRANCHIATA.

PECTINIBRANCHIATA.

TOXOGLOSSA.

TEREBRIDÆ, CONIDÆ, PLEUROTOMIDÆ, and CANCELLARIIDÆ.

- Admete woodworthi*, California; DALL, Nautilus xviii, p. 123: *A. magellanica*, Magellan Region; STREBEL, Zool. Jahrb. Syst. xxii, p. 594, fig.: n. spp.
Bathybela, n. sect. of *Bela* for *Thesbia nudator*, Loc., etc.; KOBELT (340), p. 276.
Bathyclionella, n. sect. of *Bela* for *Pleurotoma quadruplex*, Watson; KOBELT (340), p. 279.
Bathytoma sarcinula, New South Wales; HEDLEY, Rec. Austral. Mus. vi, p. 53, fig.: n. sp.
Bela angusteplicata, p. 583, *lateplicata*, p. 584, *gazellæ*, p. 585, *magellanica*, p. 586, *michaelseni*, p. 587, *paessleri*, p. 588, *martensi*, p. 589, Magellan Region; STREBEL, Zool. Jahrb. Syst. xxii, figg.: n. spp.
Cancellaria exquisita [= *wilmeri*, Sby.], Ceylon; PRESTON, J. Malac. xii, p. 3, fig.: n. sp.
Clathurella epentroma, New Zealand; MURDOCH, Tr. N. Zealand Inst. xxxvii, p. 219, fig.: n. sp.
Clavatula gaylordæ, Ceylon; PRESTON, J. Malac. xii, p. 2, fig.: n. sp.
Clionella semicostata (Kien.), anatomy; BERGH (42), p. 102.
Conus fuscolineatus, Sierra Leone; SOWERBY, P. Malac. Soc. London vi, p. 282, fig.: n. sp.
Drillia consociata, n. var.; SYKES, P. Malac. Soc. London vi, p. 318, fig.
Drillia tyallensis, New Zealand; MURDOCH, Tr. N. Zealand Inst. xxxvii, p. 221, fig.: *D. levanderi*, Massowa; STURANY, Nachrbl. Deutsch. malak. Ges. 1905, p. 135, fig.: *D. janseni*, p. 580, *suxdorfii*, p. 582, *kophameli*, p. 582; Magellan Region; STREBEL, Zool. Jahrb. Syst. xxii, figg.: n. spp.
Genota vafra, West Africa; SYKES, P. Malac. Soc. London vi, p. 317, fig.: n. sp.
Mangilia lamarchi, n. n. for *Pleurotoma plicata*, Latn.; PEZANT, Feuille Natural. xxxv, p. 89.

- Mangilia perattenuata*, California; DALL, Nautilus xviii, p. 123 : *M. emina*, New South Wales; HEDLEY, Rec. Austral. Mus. vi, p. 53, fig. : *M. mangeri*, (*Glyphostoma*) *cazioti*, (*G.*) *ecolorata*, (*Clathurella*) *carnicolor*, p. 2, (*Cythara*) *brunneolineata*, p. 3, Ceylon; PRESTON, J. Malac. xii, figg. : **n. spp.**
- Mitromorpha suteri*, New Zealand; MURDOCH, Tr. N. Zealand Inst. xxxvii, p. 220, fig. : **n. sp.**
- Ohlinia*, **n. gen.** for *Admete* (?) *limnææformis*, Smith; STREBEL, Zool. Jahrb. Syst. xxii, p. 597, fig.
- Pleurobela*, **n. sect.** of *Belomitra* for *B. spelta* (Monts.), Locard; KOBELT (340), p. 301.
- Pleurotomidæ* of European Seas reviewed; KOBELT (340): New Zealand species; SUTER (572).
- P. weldiana*, Woods, equals *Drillia fucata*, Rve.; HEDLEY, P. Soc. Tasmania 1902, p. 77.
- Pusionella remorata*, West Africa; SYKES, P. Malac. Soc. London vi, p. 317, fig. : **n. sp.**
- Savatieria dubia*, p. 641, *pfefferi*, p. 642, *molinae*, p. 644, *areolata*, p. 645, Magellan Region; STREBEL, Zool. Jahrb. Syst. xxii, figg. : **n. spp.**
- Surcula buchani*, Hutton, *trailli*, Hutton, notes on names and synonyms; SUTER, P. Malac. Soc. London vi, p. 200.
- Terebra hedleyana*, **n. n.** for *Terebra hedleyi*, Pils., preocc.; PILSBRY, P. Ac. Philad. 1905, p. 101.
- Thesbia michaelseni*, p. 590, *filostriata*, p. 591, *ohlini*, p. 592, Magellan Region; STREBEL, Zool. Jahrb. Syst. xxii, figg. : **n. spp.**
- Villiersia*, Monts., renamed *Villiersiella*, q. v.
- Villiersiella*, apparently **n. n.** for *Villiersia*, Monts. nec D'Orb.; KOBELT (340), p. 381.

RACHIGLOSSA.

OLIVIDÆ, MARGINELLIDÆ, VOLUTIDÆ, and MITRIDÆ.

- Erato albescens*, California; DALL, Nautilus xviii, p. 124 : **n. sp.**
- Marginella tasmanica*, *cypræoides*, Woods, figd.; MAY, P. Soc. Tasmania 1902, p. 109.
- Marginella imperatrix*, *keppeli*, p. 315, West Africa, *repentina*, Mayotte, *binotata*, Indian Ocean (? Ceylon), *hesperia*, off Cape St Vincent, p. 316; SYKES, P. Malac. Soc. London vi, figg. : **n. spp.**
- Mitra* piercing *Fistulana*; SMITH (538): Some spp. figd.; BÜLOW (82): *M. tasmanica*, Woods, figd.; MAY, P. Soc. Tasmania 1902, p. 109.
- Oliva peruviana*, anatomy; HALLER (260): *O. tigridella*, Duclos, note on; BRIDGMAN (62): *O. oryza*, Lam., note on; BRIDGMAN (61).
- Voluta*, some spp. figd.; BÜLOW (82).
- Vulpecula* (*Pusia*) *hedleyi*, New Zealand; MURDOCH, Tr. N. Zealand Inst. xxxvii, p. 228, fig. : **n. sp.**

FASCIOLARIIDÆ, TURBINELLIDÆ, BUCCINIDÆ, NASSIDÆ,
COLUMBELLIDÆ, MURICIDÆ, and CORALLIOPHILIDÆ.

- Anomacme*, **new group** of *Euthria*, for *E. smithi*, **n. sp.**; STREBEL, Zool. Jahrb. Syst. xxii, p. 633.
- †*Aptycholathyrus*, **n. gen.** for *A. virofunatus*, **n. sp.**, Eocene, Cotentin; COSSMANN & PISSARRO, Bull. Soc. geol. Normand. xxiv, p. 44.
- Buccinum*, some spp. figd., with notes and **n. varr.**; HÄGG (257): *B. chishimanum*, figd.; PILSBRY, P. Ac. Philad. 1905, p. 103.
- Buccinum bromsi*, Spitzbergen; HÄGG, Arkiv Zool. ii, No. 13, p. 57, fig. : *B. unicum*, Japan; PILSBRY, P. Ac. Philad. 1905, p. 102, fig. : **n. spp.**

- Columbella huttoni*, Suter, n. n. for *Lachesis sulcata*, Hutton, preocc.; MURDOCH, Tr. N. Zealand Inst. xxxvii, p. 223: *C. pardalina*, n. subsp.; PILSBRY, P. Ac. Philad. 1905, p. 102: *C. legrandi*, Woods, figd.; MAY, P. Soc. Tasmania 1902, p. 110.
- Columbella perlævis*, (*Atilia macandrewi*, ? Ceylon; SOWERBY, Ann. Nat. Hist. xvi, p. 189: *C. (Mitrella) multistriata*, Ceylon; PRESTON, J. Malac. xii, p. 3, fig.: *C. (Seminella) decorata*, p. 635, *paessleri*, *melvillei*, p. 637, Magellan Region; STREBEL, Zool. Jahrb. Syst. xxii, figg.: *C. transitans*, *pavillus*, p. 224, *saxatilis*, p. 225, New Zealand; MURDOCH, Tr. N. Zealand Inst. xxxvii, figg.: n. spp.
- Euthria ringei*, p. 619, *michaelseni*, p. 621, *janseni*, p. 622, *mulachi*, p. 623, *paessleri*, p. 624, *philippii*, p. 626, *martensi*, p. 630, *agnesia*, p. 631, *kobelti*, p. 632, *smithi*, p. 633, Magellan Region; STREBEL, Zool. Jahrb. Syst. xxii, figg.: n. spp.
- Fasciolaria tulipa*, cannibalism and larval excretion-organs; GLASER (238).
- Glypteuthria*, new group of *Euthria*, for *E. meridionalis*, Smith, etc.; STREBEL, Zool. Jahrb. Syst. xxii, p. 627.
- Latiaxis kieneri*, Philippines; HIDALGO (286), p. 3: n. sp.
- Leptoconchus* sp., Marshall Is.; SCHNEE (507).
- Maculotriron bracteatus*, var. figd.; PILSBRY, P. Ac. Philad. 1905, p. 103.
- Megalatractus aruanus*, notes on; HEDLEY, Rec. Austral. Mus. vi, p. 98.
- Murex (Phyllonotus) santarosana*, California; DALL, Nautilus xix, p. 14: n. sp.
- Nassa obsoleta*, life history, etc.; DIMON (183).
- Pareuthria*, n. group of *Euthria*, for *E. cornea*, etc.; STREBEL, Zool. Jahrb. Syst. xxii, p. 600.
- Purpura*, earliest use of name; DALL, P. Soc. Washington xviii, p. 189: Nutrition of embryo; PELENEER (443).
- Ricinula lischkei*, Red Sea; HIDALGO (286), p. 2: n. sp.
- Sycotypus*, physiology of alimentary canal; MENDEL & BRADLEY (401, 402).
- Tritonidea lamarcki*, n. n. for *Fusus polygonus*, Lam. non Gmel.; PEZANT, Feuille Natural. xxxv, p. 88.
- Tritonidea (Cantharus) fuscopicta*, ? Ceylon; SOWERBY, Ann. Nat. Hist. xvi, p. 191: n. sp.
- Trophon (Kalydon) curta*, New Zealand; MURDOCH, Tr. N. Zealand Inst. xxxvii, p. 228, fig.: n. sp.
- Usilla gouldi* (Smith), figd.; PILSBRY, P. Ac. Philad. 1905, p. 104.

TÆNIOGLOSSA.

LOTORIIDÆ, CASSIDIDÆ, DOLIIDÆ, CYPRÆIDÆ, STROMBIDÆ,
APORRHAIIDÆ, and STRUTHIOLARIIDÆ.

- Aquillus nobilis*, Cour., figd.; BÜLOW (82).
- Casmaria*, notes on genus and species; MELVILL (396).
- Cassidaria rugosa*, anatomy; REYNELL (482): *C. echinophora*, variation; VINASSA DE REGNY (613).
- Cypræa*, notes on, with n. varr.; VAYSSIÈRE (604, 605): Four n. varr.; MELVILL (397): Several n. varr.; ROUS (497): *C. miliaris*, *capensis*, n. varr.; ROUS, Nautilus xix, p. 29.
- †*Digitolabrum*, n. sect. of *Dientomchilus*, type *Rostellaria princeps*, Vass.; COSSMANN, Essais Pal. Comp. vi, p. 40 [om. 1904].
- Dolium perdix* (L.), anatomy; BERGH (42), p. 105.
- Lotoriidæ*, notes on nomenclature; DOLLFUS (187).
- Rostellaria crispata* (Sow.), anatomy; BERGH (42), p. 107: *R. delicatula*, variation and distribution; MELVILL & STANDEN (399).

Strombus pugilis, sexual dimorphism; COLTON (130): Notes on animal, habits, etc.; COLTON (131): *S. pugilis*, n. var.; FLICK, *Nautilus* xix, p. 32.

CERITHIIDÆ, PLANAXIDÆ, TRICHOTROPIDIDÆ, and CÆCIDÆ.

Bittium michaelsoni, Magellan Region; STREBEL, *Zool. Jahrb. Syst.* xxii, p. 655, fig. : n. sp.

Cæcidæ; DISTASO (184).

Cerithiopsis halligani, New South Wales; HEDLEY, *Rec. Austral. Mus.* vi, p. 51, fig. : *C. abjecta*, *brunneoflavida*, *orientalis*, Ceylon; PRESTON, *J. Malac.* xii, p. 4, figg. : *C. sarissa*, New Zealand; MURDOCH, *Tr. N. Zealand Inst.* xxxvii, p. 221, fig. : n. spp.

Cerithium tuberculatum, L., is really a *Potamides*; DAUTZENBERG & FISCHER, *J. Conchyl.* liii, p. 130.

Cerithium tomlini, Ceylon; PRESTON, *J. Malac.* xii, p. 3, fig. : *C. thanumi*, *hawaiense*, Hawaiian Is.; PILSBRY & VANATTA, *P. Ac. Philad.* 1905, p. 576 [Figd. ; t. c. p. 787]: *C. voyi*, p. 787, Caroline and Hawaiian Is., *nesioticum*, Hawaiian Is., &c., p. 789; PILSBRY & VANATTA, t. c. figg. : n. spp.

†*Horizostoma*, n. subgen. of *Cerithium* for *C. heterostoma*, Gein.; DENINGER, *Beitr. Pal. Oesterr.-Ung.* xviii, p. 15.

†*Irania*, n. gen. for *Vicarya fusiformis*, Hislop, &c.; DOUVILLÉ (192), p. 319.

Planaxis abbreviata, n. subsp.; PILSBRY, *P. Ac. Philad.* 1905, p. 105.

Protoma pulchra, Sierra Leone; SOWERBY, *P. Malac. Soc. London* vi, p. 281, fig. ; n. sp.

Pseudoparastrophia, n. gen., type *P. levigata*, n. sp., Mediterranean; DISTASO, *Zool. Jahrb. Syst.* xxii, p. 434, fig.

Pseudovertagus, n. sect. of *Cerithium*, type *C. aluco*, L.; VIGNAL, *Bull. Mus. Paris* x, p. 358.

Pyrazus, notes on spp.; VIGNAL (611).

Trichotropis tenuis, Sm., figd.; HÄGG (257).

MELANIIDÆ, PSEUDOMELANIIDÆ, PLEUROCERIDÆ, LITTORINIDÆ, and FOSSARIDÆ.

Fossarina lineata, ?Ceylon; SOWERBY, *Ann. Nat. Hist.* xvi, p. 188 : n. sp.

Fossarus bulimoides, Woods, is young of *Adelacteon casta*, Ad.; MAY, *P. Soc. Tasmania* 1902, p. 111.

Fossarus oblongus, ?Ceylon; SOWERBY, *Ann. Nat. Hist.* xvi, p. 188 : n. sp.

Goniobasis columbiensis, British Columbia; WHITEAVES, *Nautilus* xix, p. 61, fig. : n. sp.

Littorina, vitality; SMITH, *P. Malac. Soc. London* vi, p. 272.

Melania tuberculata, Müll., note on synonymy; DAUTZENBERG & FISCHER, *J. Conchyl.* liii, p. 141.

Melania gottschei, p. 26, *succincta*, p. 28, *multisculpta*, p. 29, *forticosta*, p. 31, *tegulata*, p. 32, *nodiperda*, p. 33, *nodifila*, p. 38, *graniperda*, p. 39, *coreana*, p. 40, *multicincta*, p. 44, *extensa*, p. 45, *paucicincta*, p. 46, *ovulum*, p. 47, *globus*, p. 48, Martens, Korea, figd.; MARTENS, *Zool. Jahrb. Suppl.* viii.

Melanopsis hungarica, notes on; KORMOS (345).

Paramelania nassa, n. var.; GERMAIN, *Bull. Mus. Paris* xi, p. 259.

†*Rhabdostropha*, n. subgen. of *Loxonema* for *L. grindrodii*, *pseudofasciatum*, n. spp., Silurian; DONALD, *Quart. J. Geol. Soc.* lxi, p. 565.

†*Turristylus*, n. subgen. of *Trypanostylus* for *T. triadicus*, Kittl. &c.;
BLASCHKE, Beitr. Pal. Oesterr.-Ung. xvii, p. 205.

SOLARIIDÆ, RISSOIDÆ, HYDROBIIDÆ, VIVIPARIDÆ,
VALVATIDÆ, AMPULLARIIDÆ, and ASSIMINEIDÆ.

- Alaba oldroydi*, California; DALI, Nautilus xix, p. 15 : n. sp.
Ampullaria gigas, account of; BRÜNING (73, 74).
Ampullaria chevalieri, Chari Region; GERMAIN, Bull. Mus. Paris x, p. 469 :
n. sp.
Assiminea brevicula, Pfr., figd.; DAUTZENBERG & FISCHER, J. Conchyl. liii,
p. 163.
Assiminea francoisi, p. 164, *interrupta*, p. 165, Tonkin; DAUTZENBERG &
FISCHER, t. c. figg. : n. spp.
Bithynia martreti, Mamoun Country; GERMAIN, Bull. Mus. Paris x, p. 469 :
n. sp.
Cingula kurilensis, Kuril Is.; PILSBRY, P. Ac. Philad. 1905, p. 106, fig. :
n. sp.
Cleopatra morrelli, Zambesi River; PRESTON, P. Malac. Soc. London vi,
p. 300, fig. : *C. trisulcata*, Tanganyika; GERMAIN, Bull. Mus. Paris xi,
p. 257 : n. spp.
Cochliopa rowelli, note on habitat; PILSBRY (458).
Daudebardiella, n. gen., p. 119, for *D. neegelei*, p. 121, *asiana*, p. 122,
n. spp., Cilicia; BOETTGER, Nachrbl. Deutsch. malak. Ges. 1905,
figg.
Diala tumida, Woods, note on; MAY, P. Soc. Tasmania 1902, p. 111.
Diala polita, *semipellucida*, Ceylon; PRESTON, J. Malac. xii, p. 4, figg. :
n. spp.
Fenella purpureoapicata, Ceylon; PRESTON, t. c. p. 5, fig. : n. sp.
Lanistes foai, Upper Congo; GERMAIN, Bull. Mus. Paris xi, p. 256 :
n. sp.
Lartetia sarana, p. 114, *sodalis*, *compacta*, p. 116, Cilicia; BOETTGER,
Nachrbl. Deutsch. malak. Ges. 1905, figg. : n. spp.
Lioplax pilsbryi, Florida; WALKER, Nautilus xviii, p. 133, fig. : n. sp.
Paludestrina jenkinsi, n. var.; OVERTON (431).
Paludestrina salsa, Massachusetts; PILSBRY, Nautilus xix, p. 90, fig. :
n. sp.
Paludina vivipara, development; OTTO & TÖNNIGES (430): *P. quadrata*,
Bens., n. var.; DAUTZENBERG & FISCHER, J. Conchyl. liii, p. 157.
Paulia exigua, Cilicia; BOETTGER, Nachrbl. Deutsch. malak. Ges. 1905,
p. 118, fig. : n. sp.
Potamopyrgus, review of New Zealand species; SUTER, Tr. N. Zealand
Inst. xxxvii, p. 258.
Potamopyrgus brevior, Vate I.; ANCEY, Nautilus xix, p. 46: *P. sub-*
terraneus, New Zealand; SUTER, Tr. N. Zealand Inst. xxxvii, p. 267,
fig. : n. spp.
Rissoia cyclostoma, *agnevi*, Woods, p. 112, *rubicunda*, Tate & May, p. 119,
figd.; MAY, P. Soc. Tasmania 1902.
Rissoia vulgaris, *micans*, *zosterophila*, p. 277, *carnosa*, *candidissima*, p. 278,
New Zealand; WEBSTER, Tr. N. Zealand Inst. xxxvii, figg. : *R.*
leptalea, p. 228, *microstriata*, *insculpta*, p. 229, New Zealand;
MURDOCH, t. c. figg. : n. spp.
Rissoina, notes on three spp.; WEBSTER, t. c. pp. 278 & 279 : *R. gertrudis*,
Woods, figd.; HEDLEY, P. Soc. Tasmania 1902, p. 78: *R. flindersi*,
Woods, note and fig.; MAY, t. c. p. 111.
Rissoina agrestis, New Zealand; WEBSTER, Tr. N. Zealand Inst. xxxvii,
p. 279, fig. : *R. pellucida*, *delicatula*, *oscitans*, (*Rissolina*) *flicostata*,

- (*Morchiella*) *lankaensis*, Ceylon ; PRESTON, J. Malac. xii, p. 5, figg. : **n. spp.**
Somatogyrus walkerianus, Alabama ; ALDRICH, Nautilus xviii, p. 140, fig. : **n. sp.**
Stenothyra monilifera, Bens., figd. ; DAUTZENBERG & FISCHER, J. Conchyl. liii, p. 153.
Torinia densegranosa, Japan ; PILSBRY, P. Ac. Philad. 1905, p. 106, fig. : **n. sp.**
Valvata lewisi, n. var. ; DALL (165), p. 123.
Valvata nylanderi, Maine ; DALL (165), p. 122 : **n. sp.**
Vitrella, n. varr. from Wurttemberg ; GEYER (234).
Vitrella saxigena, p. 297, *gonostoma*, p. 299, *suevica*, p. 300, Wurttemberg ; GEYER, Jahresh. Ver. Wurttemb. lxi, figg. : **n. spp.**
Vivipara contecta, sinistral ; STANDEN (558) : *V. contecta*, n. var. ; TAYLOR, J. Conch. xi, p. 144.
Vivipara densestriata, Zambesi River ; PRESTON, P. Malac. Soc. London vi, p. 300, fig. : *V. passargei*, Kalahari ; MARTENS (385), p. 757, fig. : *V. foai*, Tanganyika, *lenfanti*, Lake Tchad ; GERMAIN, Bull. Mus. Paris xi, p. 257 : **n. spp.**

CYCLOPHORIDÆ and CYCLOSTOMATIDÆ.

- Alycæus varius*, Formosa ; PILSBRY & HIRASE, P. Ac. Philad. 1905, p. 729 : **n. sp.**
Cataulus, notes on with n. var. of *C. marginatus* ; SYKES (587).
Cataulus smithi, *prestoni*, p. 56, *congener*, p. 57, Ceylon ; SYKES, J. Malac. xii, figg. : **n. spp.**
Cyathopoma taiwanicum, Formosa ; PILSBRY & HIRASE, P. Ac. Philad. 1905, p. 724 : **n. sp.**
Cyclophorus unicus, Mabilie, figd. ; DAUTZENBERG & FISCHER, J. Conchyl. liii, p. 167 : *C. turgidus*, n. subsp. ; PILSBRY & HIRASE, P. Ac. Philad. 1905, p. 705.
Cyclostomatide, revision of American groups ; DALL, P. Malac. Soc. London vi, p. 208 : *C. sulcatum*, Drap., and allied spp., note on ; CAZIOT (96).
Cyclotus taiwanus, n. subsp. ; PILSBRY & HIRASE, P. Ac. Philad. 1905, p. 705 : *C. taiwanus*, *swinhoei*, *minutus*, n. subspp. ; PILSBRY & HIRASE, t. c. p. 723.
Cyclotus (Eucyctotus) amabilis, N. Borneo ; FULTON, Ann. Nat. Hist. xv, p. 93 : **n. sp.**
Diplommatina tokunoshimana, *tosana*, n. subspp. ; PILSBRY & HIRASE, P. Ac. Philad. 1905, p. 706.
Diplommatina (Gastroptychia) electa, N. Borneo ; FULTON, Ann. Nat. Hist. xv, p. 94 : *D. (Nicide) lankaensis*, (*N.*) *delectabilis*, Ceylon ; PRESTON, J. Malac. xii, p. 9, figg. : *D. taiwanica*, p. 726, *camura*, *prava*, p. 727, Formosa ; PILSBRY & HIRASE, P. Ac. Philad. 1905 : **n. spp.**
Hybocystis gravidu, *crossesi*, and *rochebrunei* are all the same ; DAUTZENBERG & FISCHER, J. Conchyl. liii, p. 171.
Japonia zebra, p. 722, *formosana*, p. 723, Formosa ; PILSBRY & HIRASE, P. Ac. Philad. 1905 : **n. spp.**
Lagochilus scissimargo, Bens., *fischeri*, Morl., notes on with figg. and n. varr. ; DAUTZENBERG & FISCHER, J. Conchyl. liii, p. 169.
Lagochilus proprium, Borneo ; FULTON, Ann. Nat. Hist. xv, p. 93 : **n. sp.**
Opisthosiphon, **n. gen.**, type *Chondropoma bahamense*, Shuttl. ; DALL, P. Malac. Soc. London vi, p. 209.
Opisthostoma fraternum, North Borneo ; SMITH, Ann. Nat. Hist. xv, p. 360 : *O. shelfordi*, *sadongense*, p. 189, *picsingense*, p. 190, Sarawak ; SMITH, P. Malac. Soc. London vi, figg. : **n. spp.**

- Palaina francoisi*, Espiritu Santo I.; ANCEY, Nautilus xix, p. 44: *P.* (*Adelopoma*) *paucicostata*, Japanese Empire; PILSBRY & HIRASE, P. Ac. Philad. 1905, p. 707: *P. formosana*, Formosa; PILSBRY & HIRASE, t. c. p. 728: n. spp.
- Parachondria*, n. subgen. of *Chondropoma*, type *Turbo fascia*, Wood; DALL, P. Malac. Soc. London vi, p. 209.
- Pseudopomatias eos*, Formosa; PILSBRY & HIRASE, P. Ac. Philad. 1905, p. 728: n. sp.
- Pupinella oshimæ*, n. subsp.; PILSBRY & HIRASE, t. c. p. 705.
- Rhytidopoma euploca*, Bahamas; DALL, Smithson. Collect. quart. xvii, p. 449, fig.: n. sp.

TRUNCATELLIDÆ.

- Blandfordia formosana*, Formosa; PILSBRY & HIRASE, P. Ac. Philad. 1905, p. 750: n. sp.
- Geomelania*, note on type; SYKES, P. Malac. Soc. London vi, p. 225, fig.
- Geomelania jarvisi*, Jamaica; SYKES, t. c. p. 226, fig.: n. sp.
- Truncatella japonica*, Japanese Empire; PILSBRY & HIRASE, P. Ac. Philad. 1905, p. 707: n. sp.

CAPULIDÆ, XENOPHORIDÆ, ADEORBIIDÆ, LAMELLARIIDÆ and NATICIDÆ.

- Adeorbis angulata*, New South Wales; HEDLEY, Rec. Austral. Mus. vi, p. 50, fig.: n. sp.
- Caledoniella contusiformis*, South Australia; BASEDOW, Tr. R. Soc. S. Austral. xxix, p. 183, fig.: n. sp.
- Crepidula*, adaptation of shell; GRAF (244): *C. rugosa*, n. varr.; WILLIAMSON, Nautilus xix, p. 50: *C. nivea*, var.; DALL (154).
- Natica catena*, scalariform; SPAN, J. Conch. xi, p. 159, fig.
- Natica (Haloconcha) hirasei*, Japan; PILSBRY, P. Ac. Philad. 1905, p. 105, fig.: n. sp.
- †*Phryx*, n. subgen. of *Capulus* for *C. bilateralis*, n. sp., Trias, Tirol; BLASCHKE, Beitr. Pal. Oesterr.-Ung. xvii, p. 174.
- Xenophora mediterranea* and *senegalensis*, note on; KOBELT, Nachrbl. Deutsch. malak. Ges. 1905, p. 64.

PTENOGLOSSA.

SCALIDÆ.

- Aclis watsoni*, n. n. for *A. minutissima*, Watson non Desh.; PEZANT, Feuille Natural. xxxv, p. 88.
- Crossea glabella*, New Zealand; MURDOCH, Tr. N. Zealand Inst. xxxvii, p. 225, fig.: n. sp.
- Scala minutula*, Tate and May, note and fig.; HEDLEY, Rec. Austral. Mus. vi, p. 52.
- Scala turrisphari*, New South Wales; HEDLEY, Rec. Austral. Mus. vi, p. 52, fig.: n. sp.
- Scalaria zelevori*, note on; SUTER (577).
- Scalaria octogona, interstriata*, ? Ceylon; SOWERBY, Ann. Nat. Hist. xvi, p. 190: n. spp.

GYMNOGLOSSA.

EULIMIDÆ and PYRAMIDELLIDÆ.

- Enteroxenos*, embryo; BONNEVIE (60).
- Eulimida*, notes on Adams' Japanese species, and fig. of *E. luchuana*,

- Pils., *articulata*, Sby.; PILSBRY, P. Ac. Philad. 1905, p. 107: *E. tasmanica*, Woods, is a *Rissoia*, with fig.; MAY, P. Soc. Tasmania 1902, p. 110.
- Eulima exasperata, indica*, Ceylon; PRESTON, J. Malac. xii, p. 6, figg.: *E. bovicornu, ogasawarana*, Japan; PILSBRY, P. Ac. Philad. 1905, p. 111, figg.: n. spp.
- Eulimella cæna*, New Zealand; WEBSTER, Tr. N. Zealand Inst. xxxvii, p. 279, fig.: n. sp.
- Odostomia impolita, rugata*, Hutton, notes on; MURDOCH (412).
- Odostomia proxima*, p. 226, *vestalis*, p. 227, New Zealand; MURDOCH, Tr. N. Zealand Inst. xxxvii, figg.: n. spp.
- Pseudorissoina elegans*, New South Wales; HEDLEY, Rec. Austral. Mus. vi, p. 51, fig.: n. sp.
- Pyramidella (Oscilla) mirabilis, (O.) suburbana, (Mormula) humilis*, p. 6, (*Actæopyramis*) *ceylanica, (A.) sykesi, (A.) suavissima*, p. 7, Ceylon; PRESTON, J. Malac. xii, figg.: n. spp.
- Turbonilla tasmanica*, Woods, is *Truncatella scalarina*; MAY, P. Soc. Tasmania 1902, p. 111.
- Turbonilla smithi* (Pfeffer, MS.), Magellan Region; STREBEL, Zool. Jahrb. Syst. xxii, p. 659, fig.: *T. coeni, sinhila, (?) princeps* [= *Terebra pygmaea*, Hinds], Ceylon; PRESTON, J. Malac. xii, p. 7, figg.: n. spp.

SCUTIBRANCHIATA.

RHIPHIDOGLOSSA.

PROSERPINIDÆ and HELICINIDÆ.

- Rhiphidoglossa*, structure of heart, etc.; SPILLMANN (555).
- Andamanica*, n. sect. of *Aphanoconia* for *Helicina andamanica*, Bens., etc.; WAGNER, Denk. Ak. Wien lxxvii, p. 406.
- Angulata*, n. sect. of *Helicina* for *H. leopoldina*, n. sp., etc.; WAGNER, op. cit. lxxviii, p. 228.
- Aphanoconia*, n. gen. for *Helicina verecunda*, Gould, etc.; WAGNER, op. cit. lxxvii, p. 388: *A. bandana*, p. 406, *zigzag*, p. 409, *suturalis*, p. 411, *discoidea*, p. 413, n. varr.; WAGNER, t. c. p. 406.
- Aphanoconia eduardi*, Louisiades, p. 393, *braueri*, Woodlark I., p. 394, *submucronata* (Mlldff. MS.), New Guinea, *trichroa*, Banguey I., p. 400, *halongensis*, Tonkin, p. 404, *keiensis*, Kei Is., p. 405, *pentheri*, Tahiti, p. 408; WAGNER, t. c. figg.: n. spp.
- Citrina*, n. sect. of *Sulfurina* for *Helicina citrina*, Grat., etc.; WAGNER, t. c. p. 372.
- Concentrica*, n. sect. of *Helicina* for *H. concentrica*, Pfr., etc.; WAGNER, op. cit. lxxviii, p. 220.
- Dichroa*, n. sect. of *Aphanoconia* for *Helicina dichroa*, Mlldff., etc.; WAGNER, op. cit. lxxvii, p. 403.
- Discoidea*, n. sect. of *Aphanoconia* for *Helicina discoidea*, Pease, and *villosa*, Anton; WAGNER, op. cit. lxxvii, p. 413.
- Diversicolor*, n. sect. of *Orobophana* for *Helicina diversicolor*, Cox, etc.; WAGNER, t. c. p. 431.
- Euneritella*, n. sect. of *Helicina* for *H. neritella*, Lam., etc.; WAGNER, op. cit. lxxviii, p. 212.
- Fulgora*, n. sect. of *Aphanoconia* for *Helicina fulgora*, Gould, etc.; WAGNER, op. cit. lxxvii, p. 408.
- Globulina*, n. sect. of *Sulfurina* for *Helicina crossei*, Pfr., etc.; WAGNER, t. c. p. 376.
- Helicinidae*, classification; WAGNER (617): *Helicina*, review of genus with n. var.; WAGNER (618); *H. rawsoni*, Pfr., figd.; DALL (158), p. 36.

- Helicina pandiensis*, New Granada, *schluteri*, Peru, p. 221, *infesta*, Venezuela, *ocanensis*, New Granada, p. 223, *steindachneri*, Venezuela, p. 224, *leopoldinae*, p. 228, *wettsteini*, p. 229, Brazil; WAGNER, Denk. Ak. Wien lxxviii, figg. : n. spp.
- Hemipoma*, n. gen. for *Helicina hakodadiensis*, Hartman, etc.; WAGNER, op. cit. lxxvii, p. 433.
- Hendersonia*, n. gen. for *Oligyra occulta*, Say; WAGNER, t. c. p. 364.
- Kalokonia*, n. sect. of *Palæohelicina* for *P. moquiniana* (Recl.), etc.; WAGNER, op. cit. lxxviii, p. 204.
- Kosmetopoma*, n. subgen. of *Sulfurina* for *Helicina amalicae*, Kob.; WAGNER, op. cit. lxxvii, p. 382.
- Miluna*, n. gen. for *M. josephinae*, n. sp., China; WAGNER, t. c. p. 363, fig.
- Musiva*, n. sect. of *Orobophana* for *Helicina musiva*, Gould, etc.; WAGNER, t. c. p. 429.
- Ogasawarana*, n. sect. of *Aphanoconia* for *Helicina ogasawarana*, Pils., etc.; WAGNER, t. c. p. 395.
- Orbiculata*, n. sect. of *Helicina* for *H. orbiculata*, Say, etc.; WAGNER, op. cit. lxxviii, p. 238.
- Orobophana*, n. gen. for *Helix sphaeroidea*, Pfr., etc.; WAGNER, op. cit. lxxvii, p. 415: *O. colorata*, p. 418, *mediana*, p. 424, n. varr.; WAGNER, t. c.
- Pachystoma*, n. sect. of *Orobophana* for *Helicina pachystoma*, Smith; WAGNER, t. c. p. 432.
- Palæohelicina*, n. gen. for *Helicina fischeriana*, Montr., etc.; WAGNER, t. c. p. 435: Review of genus with n. varr.; WAGNER (618): *P. fischeriana*, p. 436, *stanleyi*, p. 438, n. varr.; WAGNER, t. c.
- Palæohelicina hara*, British New Guinea; WAGNER, op. cit. lxxviii, p. 204, fig.: *P. heterochroa*, Pelew Is., p. 436, *filix*, Louisades, p. 439; WAGNER, op. cit. lxxvii, figg. : n. spp.
- Primeana*, n. sect. of *Orobophana* for *Helicina primeana*, Gass., etc.; WAGNER, t. c. p. 423.
- Proserpina* (*Staffola*, n. sect.) *derbyi*, Brazil; DALL, P. Soc. Washington xviii, p. 202: n. sp.
- Punctisalcata* (sic), n. sect. of *Helicina* for *H. punctisalcata* (sic), Martens, etc.; WAGNER, Denk. Ak. Wien lxxviii, p. 218.
- Reticulata*, n. sect. of *Aphanoconia* for *Helicina verecunda*, Gould, etc.; WAGNER, op. cit. lxxvii, p. 389.
- Retorquata*, n. subgen. of *Helicina* for *H. zephyrina*, Duclos, etc.; WAGNER, op. cit. lxxviii, p. 230.
- Rhabdokonia*, n. sect. of *Palæohelicina* for *Helicina fischeriana*, Montr., etc.; WAGNER, op. cit. lxxvii, p. 435.
- Rostrata*, n. sect. of *Helicina* for *H. rostrata*, Morel., etc.; WAGNER, op. cit. lxxviii, p. 235.
- Schazicheila palmeri*, Mexico; DALL, Smithson. Collect. quart. xlvi, p. 191, fig. : n. sp.
- Sculpta*, n. sect. of *Aphanoconia* for *Helicina sculpta*, Martens; WAGNER, Denk. Ak. Wien lxxvii, p. 398.
- Sphaeroidea*, n. sect. of *Orobophana* for *Helicina sphaeroidea*, Pfr., etc.; WAGNER, t. c. p. 415.
- Staffola*, n. sect. of *Proserpina* for *P. derbyi*, n. sp., Brazil; DALL, P. Soc. Washington xviii, p. 202.
- Sturanya*, n. gen. for *Helicina plicatilis*, Mousson, etc.; WAGNER, Denk. Ak. Wien lxxvii, p. 383.
- Sturanya jetschini*, Samoa and Viti Is.; WAGNER, t. c. p. 384, fig. : n. sp.
- Subglobulosa*, n. sect. of *Helicina* for *H. subglobulosa*, Poey, etc.; WAGNER, op. cit. lxxviii, p. 240.

- Sublævigata*, **n. sect.** of *Orobophana* for *Helicina sublævigata*, etc.; WAGNER, op. cit. lxxvii, p. 426.
- Succincta*, **n. sect.** of *Helicina* for *H. succincta*, Martens, etc.; WAGNER, op. cit. lxxviii, p. 236.
- Sulfurina martensi*, p. 375, *parva*, p. 377, *zelebori*, p. 380, **n. varr.**; WAGNER, op. cit. lxxvii.
- Sulphurina euchromia*, Philippines, p. 373, *lauræ*, Halmahera, p. 376, *jickelii*, British New Guinea, *sturanii*, Pelew Is.; WAGNER, t. c. figg.: **n. spp.**
- Trichroa*, **n. sect.** of *Aphanoconia* for *A. trichroa*, **n. sp.**, etc.; WAGNER, t. c. p. 400.
- Turbinata*, **n. sect.** of *Helicina* for *H. zephyrina*, Duclos, etc.; WAGNER, op. cit. lxxviii, p. 231.
- Variabilis*, **n. sect.** of *Helicina* for *H. variabilis*, Wagner, etc.; WAGNER, t. c. p. 226.
- Waldemaria*, **n. gen.** for *Helicina japonica*, Ad.; WAGNER, op. cit. lxxvii, p. 362.

NERITIDÆ, NERITOPSIDÆ, TURBINIDÆ, TROCHIDÆ, and
CYCLOSTREMATIDÆ.

- Adeorbis picta*, Woods, equals *Chlorostoma fasciatus*, Born; HEDLEY, P. Soc. Tasmania 1902, p. 77.
- Astele turbinata*, Woods, equals *Chlorostoma scalare*, Anton; HEDLEY, t. c. p. 77.
- Astele biliv*, New South Wales; HEDLEY, Rec. Austral. Mus. vi, p. 48, fig.: *A. calliston*, South Australia; VERCO, Tr. R. Soc. S. Austral. xxix, p. 167, fig.: **n. spp.**
- Astraliium pyramidale*, New Zealand; WEBSTER, Tr. N. Zealand Inst. xxxvii, p. 276, fig.: **n. sp.**
- Bathybembix ceola*, Watson, Japan, adult state, figd.; SCHEPMAN (504).
- Calliostoma zietzi*, South Australia; VERCO, Tr. R. Soc. S. Austral. xxix, p. 166, fig.: *C. planiliratum*, p. 184, *nevilli*, p. 185, ? Ceylon; SOWERBY, Ann. Nat. Hist. xvi: *C. irisans*, p. 129, *kophameli*, p. 130, *möbiusi*, p. 133, Magellan Straits; STREBEL, Zeitschr. wiss. Zool. Suppl. viii, figg.: **n. spp.**
- Clanculus leucomphalus*, South Australia; VERCO, Tr. R. Soc. S. Austral. xxix, p. 168, fig.: *C. crassilabrum*, p. 185, *acutidentatus*, p. 186, ? Ceylon; SOWERBY, Ann. Nat. Hist. xvi: **n. spp.**
- Cyclostrema weldii*, Woods, has priority over *C. australe*, Ang.; HEDLEY, P. Soc. Tasmania 1902, p. 78.
- †*Desmieria* (Bayle), **n. gen.**, type *D. rugosa*; DOUVILLÉ (192), p. 344.
- Ethalia guamensis*, Q. & G., note with **n. subsp.**; PILSBRY, P. Ac. Philad. 1905, p. 113: *E. tasmanica*, Woods, equals *Modulus modulus*, L.; HEDLEY, P. Soc. Tasmania 1902, p. 77.
- Ethalia nevilli*, ? Ceylon; SOWERBY, Ann. Nat. Hist. xvi, p. 187: **n. sp.**
- Ethaliella*, **n. gen.**, type *Ethalia floccata*, Sby.; PILSBRY, P. Ac. Philad. 1905, p. 115.
- Euchelus cavernosus*, ? Ceylon; SOWERBY, Ann. Nat. Hist. xvi, p. 186: **n. sp.**
- †*Frombachia*, **n. gen.** for *F. uhligi*, **n. sp.**, Trias, Tirol; BLASCHKE, Beitr. Pal. Oesterr.-Ung. xvii, p. 185.
- Gibbula tumidulina*, p. 65, *minuscula*, p. 66, apparently **n. n.** for *Trochus tumidus*, Weink. non Mtg., and *T. pygmæus*, Phil. non Risso; LOCARD, Ann. Soc. Agric. Lyon i.
- Gibbula murchlandi*, Cape Verd Is.; SOWERBY, Ann. Nat. Hist. xvi, p. 192: *G. incitabilis*, Mediterranean; LOCARD, Ann. Soc. Agric. Lyon i, p. 70: **n. spp.**

- Leptothyra fluctuata*, Hutton, note and fig.; MURDOCH, Tr. N. Zealand Inst. xxxvii, p. 222.
- Leptothyra crassicostata*, New Zealand; MURDOCH, t. c. p. 223, fig.: n. sp.
- Liotia alazon*, New South Wales; HEDLEY, Rec. Austral. Mus. vi, p. 49, fig.: *L. voyi*, Flint I.; PILSBRY & VANATTA, P. Ac. Philad. 1905, p. 293, fig.: n. spp.
- Margarita kophameli*, Patagonia; STREBEL, Zeitschr. wiss. Zool. Suppl. viii, p. 160, fig.: n. sp.
- Minolia eucoronata*, ?Ceylon; SOWERBY, Ann. Nat. Hist. xvi, p. 187: n. sp.
- Nerita constellata*, ?Ceylon; SOWERBY, t. c. p. 190: n. sp.
- Omphalius eusculptus*, ?Ceylon; SOWERBY, t. c. p. 186: n. sp.
- †*Parapalaemonarica*, n. subgen. of *Palaemonarica* for *P. kittli*, n. sp., Trias, Tirol; BLASCHKE, Beitr. Pal. Oesterr.-Ung. xvii, p. 184.
- Phorcus borealis*, Japan; PILSBRY, P. Ac. Philad. 1905, p. 113, fig.: n. sp.
- Photinula steineni*, Magellan Straits; STREBEL, Zeitschr. wiss. Zool. Suppl. viii, p. 158, fig.: *P. crawshayi*, p. 335, *roseolineata*, p. 336, Tierra del Fuego; SMITH, P. Malac. Soc. London vi, figg.: n. spp.
- †*Polytropina*, n. gen., type *Euomphalus discors*, Sby.; DONALD, Quart. J. Geol. Soc. lxi, p. 575.
- Solariella tenuis*, ?Ceylon; SOWERBY, Ann. Nat. Hist. xvi, p. 188: n. sp.
- Teinostoma pellucidum*, ?Ceylon; SOWERBY, t. c. p. 187: n. sp.
- Trochocochlea obstricta*, n. n. for *Trochus crassus*, Forbes non Pultn.; LOCARD, Ann. Soc. Agric. Lyon i, p. 82.
- Trochus (Lamprostoma) filiferus*, Indian Ocean; SCHEPMAN, Notes Leyden Mus. xxv, p. 99, fig.: n. sp.
- Turbo cucullata*, Woods, equals *T. radiatus*, Gmel.; HEDLEY, P. Soc. Tasmania 1902, p. 77.
- Turbo (Lunella) radina*, New Zealand; WEBSTER, Tr. N. Zealand Inst. xxxvii, p. 276, fig.: n. sp.
- Zizyphinus subgranularis*, Dkr., is a synonym of *Astele subcarinatum*; VERCO, Tr. R. Soc. S. Austral. xxix, p. 172.
- Zizyphinus gibbosulus* (Monterosato), Mediterranean; LOCARD, Ann. Soc. Agric. Lyon i, p. 46: ?n. sp.

HALIOTIDÆ, PLEUROTOMARIIDÆ, and FISSURELLIDÆ.

- Fissurella*, homing; WILLCOX (644).
- Gena terminalis*, South Australia; VERCO, Tr. R. Soc. S. Austral. xxix, p. 166, fig.: *G. ziczac*, Ceylon; PRESTON, J. Malac. xii, p. 8, fig.: n. spp.
- †*Haliotimorpha*, n. gen. for *H. dieneri*, n. sp., Trias, Tirol; BLASCHKE, Beitr. Pal. Oesterr.-Ung. xvii, p. 175.
- Haliotis*, kidney; TOTZAUER (598).
- Scissurella (Schizotrochus) kelseyi*, California; DALL, Nautilus xviii, p. 124: n. sp.
- †*Ulrichospira*, n. subgen. of *Plethospira*, type *U. similis*, n. sp., Silurian; DONALD, Quart. J. Geol. Soc. lxi, p. 569.

DOCOGLOSSA.

ACMÆIDÆ, and PATELLIDÆ.

- Docoglossa*, structure of heart, &c.; SPILLMANN (555).
- Acmæa testudinalis*, biology; WILLCOX (645).
- Helcioniscus stelliferus*, Gmel., n. subsp.; SUTER (574).
- Helcioniscus craticulatus*, Kermadec Islands; SUTER, P. Malac. Soc. London vi, p. 352, fig.: n. sp.

- Lottia gigantea*, chemical methods causing maturity of egg; LOEB (368, 369).
Patinella, Dall, renamed *Patinigera*, q. v.
Patinigera, n. n. for *Patinella*, Dall non Gray; DALL, Nautilus xviii, p. 113.
Scutellina nobilis, ?Ceylon; SOWERBY, Ann. Nat. Hist. xvi, p. 189 : n. sp.

III. SCAPHOPODA.

- Dentalium*, anatomy; DISTASO, Zool. Anz. xxix, pp. 271-278, figg. : *D. politum*, Costa, note on; MONTEROSATO (407): *D. entalis*, Desh., nervous system; DISTASO (186).
Dentalium rhabdotum, p. 116, (*Lævidentalium*) *coruscum*, (*Rhabdus*) *cerinum*, p. 117, Japan; PILSBRY, P. Ac. Philad. 1905, figg. : n. spp.

IV. PELECYPODA.

- Morphology, embryology, physiology and morphogeny; ANTHONY (11-13).
 Torsion of shell; CLARKE (118).
 Mechanism of boring in some Pelecypods; LLOYD (363).

SEPTIBRANCHIATA.

- Cuspidaria truncata*, New South Wales; HEDLEY, Rec. Austral. Mus. vi, p. 47, fig. : n. sp.

EULAMELLIBRANCHIATA.

ANATINACEA.

- Anatina smithi*, Ceylon; PRESTON, J. Malac. xii, p. 8, fig. : n. sp.
Aporema, Dall, renamed *Panacca*, q. v.
Panacca, n. n. for *Aporema*, Dall non Scudder; DALL, Nautilus xviii, p. 143.

PHOLADACEA.

- Martesia*, Eastern United States species; JOHNSON (306, 307).
Teredo, account of; KEER (322).

MYACEA and CARDIACEA.

- Cardium*, notes with figg.; BÜLOW (82): Variation of Caspian forms; OSTROUMOFF (429): *C. bechei*, Rve., note on; SMITH, J. Malac. xii, p. 27.
Cardium (*Trachycardium*) *pseudoangulatum*, Hab. incert.; BÜLOW, Nachrbl. Deutsch. malak. Ges. 1905, p. 80, fig. : n. sp.
Corbula pura, New Zealand; WEBSTER, Tr. N. Zealand Inst. xxxvii, p. 279, fig. : n. sp.
Cultellus javanicus, anatomy; BLOOMER (51).
Cultellus (*Ensiculus*) *maculatus*, Ceylon; PRESTON, J. Malac. xii, p. 8, fig. : n. sp.
Ensis, anatomy; BLOOMER (49): *E. magnus*, anatomy; BLOOMER (50).

- †*Offneria*, n. gen., type *O. rhodanica*, n. sp., Urgonian ; PAQUIER (437), p. 82.
- †*Onychocardium*, n. gen. for *O. portlandicum*, n. sp., Portage Rocks of Lake Erie ; WHITFIELD, Bull. Amer. Mus. xxi, p. 18.
- †*Polyptychus*, n. gen. for *P. morgani*, n. sp., Santonian ; DOUVILLÉ, Bull. Soc. geol. France iv, p. 520 : also (92), p. 248.
- Præcaprina*, n. gen., type *P. varians*, n. sp., Urgonian ; PAQUIER (437), p. 72.
- †*Radiolitella*, n. sect. (of ?), type *Radiolites foroguliensis*, Pirona ; DOUVILLÉ, Bull. Soc. geol. France iv, p. 535.
- Siliqua*, anatomy ; BLOOMER (49).
- Siliqua intuspurpurea*, Japan ; PILSBRY, P. Ac. Philad. 1905, p. 118, fig. : n. sp.
- Solecurtus dombeyi*, anatomy ; BLOOMER (51).
- Solenidæ*, corrigenda to previous papers ; BLOOMER (52) : Anatomy of some species ; BLOOMER (51).

VENERACEA and TELLINACEA.

- Callista (Callocardia) birtsi*, Ceylon ; PRESTON, J. Malac. xii, p. 8, fig. : n. sp.
- Chione*, occurrence of Cercaria ; CHILTON (107) : Notes on New Zealand species ; SUTER, P. Malac. Soc. London vi, p. 202 : SMITH, t. c. p. 206 : *C. macleayana*, Woods, equals *C. stutchburyi*, Gray ; HEDLEY, P. Soc. Tasmania 1902, p. 77.
- Chione subsulcata*, New Zealand ; SUTER, P. Malac. Soc. London vi, p. 205 : *C. fuegiensis*, Tierra del Fuego ; SMITH, t. c. p. 336, fig. : n. spp.
- Cytherca ranella*, Lam., is from type a synonym of *Crista gibbia*, Lam. ; DAUTZENBERG & FISCHER, J. Conchyl. liii, p. 215.
- Gastrana (Metis) bridgmani*, Ceylon ; PRESTON, J. Malac. xii, p. 8, fig. : n. sp.
- Macoma*, notes on spp. with figg. ; JENSEN (304, 305).
- Macrocallista chishimana*, Japan ; PILSBRY, P. Ac. Philad. 1905, p. 118, fig. : n. sp.
- Maetra fuegiensis*, Tierra del Fuego ; SMITH, P. Malac. Soc. London vi, p. 337, fig. : n. sp.
- Parmulina* renamed *Parmulophora*, q. v.
- Parmulophora*, n. n. for *Parmulina*, Dall non Penard ; DALL, Nautilus xviii, p. 113.
- Raeta jickelii*, Massowa ; STURANY, Nachrbl. Deutsch. malak. Ges. 1905, p. 133, fig. : n. sp.
- Semele warburtoni*, Woods, equals *Codakia orbicularis*, L. ; HEDLEY, P. Soc. Tasmania 1902, p. 77.
- Standella æqualis*, New Zealand ; WEBSTER, Tr. N. Zealand Inst. xxxvii, p. 280, fig. : n. sp.
- Tellina (Peronæa) ascensionis*, Ascension Island, p. 279, (*Tellinella*) *prismatica*, Sierra Leone, p. 280 ; SOWERBY, P. Malac. Soc. London vi, figg. : n. spp.
- Venus (Chione) keppeliana*, Sierra Leone ; SOWERBY, t. c. p. 280, fig. : n. sp.

SUBMYTILACEA.

- Ætheriada*, ligament and ligamental area ; ANTHONY (11) : *Æ. bourguignati*, figd. ; ROCHEBRUNE & GERMAIN (493).
- Anodonta*, parasitism of larva ; FAUSSEK (205) : *A. cygnea*, attached to Plover's foot ; ADAMS (2) : *A. falcata*, Drt., n. var. ; ROSEN, Nachrbl. Deutsch. malak. Ges. 1905, p. 63.

- Arthropteron*, n. gen. for *A. ouassouloui*, n. sp., Senegambia; ROCHEBRUNE, Bull. Mus. Paris x, p. 461.
- Bornia radiata*, New South Wales; HEDLEY, Rec. Austral. Mus. vi, p. 48, fig.: n. sp.
- Chamberlainia*, notes on; ROCHEBRUNE (491).
- Chamberlainia pavonina*, Siam; ROCHEBRUNE, Bull. Mus. Paris x, p. 464; n. sp.
- Corbicula fluminea*, Müll., synonymy; DAUTZENBERG & FISCHER, J. Conchyl. liii, p. 225.
- Corbicula elatior*, p. 65, *producta*, p. 66, Korea; MARTENS, Zool. Jahrb. Suppl. viii, figg.: n. spp.
- Corneocyclas hodgkini*, New Zealand; SUTER, Tr. N. Zealand Inst. xxxvii, p. 246, fig.: n. sp.
- Crassatellites ponderosus*, Gmel., note on; VERCO (606): also SMITH, J. Malac. xii, p. 26.
- Cycladidæ* of Southern United States; STERKI (564).
- Diplodon menziesi*, Gray, n. subsp.; SUTER, Tr. N. Zealand Inst. xxxvii, p. 239.
- Diplodonta auriculata*, Sierra Leone; SOWERBY, P. Malac. Soc. London vi, p. 281, fig.: *D. nevilli*, (*Felania*) *crebristriata*, ?Ceylon; SOWERBY, Ann. Nat. Hist. xvi, p. 191: n. spp.
- Fischeria centralis*, French Soudan; GERMAIN, Bull. Mus. Paris x, p. 470: n. sp.
- Hyriopsis goliath*, Rolle, equals *Unio cumingi*, Lea; DAUTZENBERG & FISCHER, J. Conchyl. liii, p. 201.
- Leptospatha*, n. n. for *Spathella*, Bourguignat non Hall; ROCHEBRUNE & GERMAIN, Mem. Soc. zool. France xvii, p. 25: *L. brumpti*, *bozasi*, figd.; ROCHEBRUNE & GERMAIN (493).
- Levanderia*, n. gen. for *L. erythræensis*, n. sp., Massowa; STURANY, Nachrbl. Deutsch. malak. Ges. 1905, p. 134, fig.
- Lucina minima*, Woods, figd.; MAY, P. Soc. Tasmania 1902, p. 114: *L. childreni*, note on; DALL, Nautilus xviii, p. 110.
- Medionidus simpsonianus*, Georgia; WALKER, Nautilus xviii, p. 136, fig.: n. sp.
- Mitriodon*, n. gen. for *M. martini*, p. 462, *falerneensis*, *heudeloti*, p. 463, n. spp., Senegambia; ROCHEBRUNE, Bull. Mus. Paris x.
- Mutelidæ*, critical notes on genera; ROCHEBRUNE (489).
- Mutela chevalieri*, Upper Oubanghi; GERMAIN, Bull. Mus. Paris x, p. 470: n. sp.
- Mutelina joubini*, Upper Oubanghi; GERMAIN, t. c. p. 470: n. sp.
- †*Namnetia*, n. gen. for *N. discoides*, n. sp., Tertiary, France; COSSMANN, Bull. Soc. Ouest France v, p. 147.
- Nodularia douglasia*, n. subsp.; PILSBRY & HIRASE, P. Ac. Philad. 1905, p. 750.
- Phacoides* (*Miltha*) *xantusi*, Gulf of California; DALL, Nautilus xviii, p. 111: n. sp.
- Pisidium*, several n. varr.; STERKI (566).
- Pisidium limatulum*, Alabama; STERKI, Nautilus xviii, p. 108: *P. atlanticum*, United States; STERKI, t. c. p. 128: n. spp.
- †*Protopis*, n. subgen. of *Opis* for *O. triptycha*, n. sp.; KITTL, Jahrb. Geol. Reichsanst. liii, p. 718 [om. 1904].
- Quadrula archeri*, p. 13, *rubidula*, p. 14, Alabama; FRIERSON, Nautilus xix, figg.: n. spp.
- Scintilla blaisei*, Tonkin; DAUTZENBERG & FISCHER, J. Conchyl. liii, p. 212, fig.: n. sp.
- Simpsonia*, n. gen., p. 465, for *Unio duclerci*, Rochbr., and *S. demangei*, n. sp., Tonkin, p. 466; ROCHEBRUNE, Bull. Mus. Paris x.
- Spatha* (*Leptospatha*) *decorsei*, Chari Region; GERMAIN, t. c. p. 469: n. sp.

- Spathella*, Bourguignat, renamed *Leptospatha*, q. v.
Sphærium courteti, Mamoun Country; GERMAIN, Bull. Mus. Paris x, p. 470:
S. mexicanum, Mexico; DALL, Smithson. Collect. quart. xlvi, p. 193,
 fig. : n. spp.
Trapezium japonicum, Japan; PILSBRY, P. Ac. Philad. 1905, p. 119, fig. :
 n. sp.
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VIII. BRACHIOPODA.

BY

E. R. SYKES, B.A.

ASSISTED BY

E. A. SMITH, I.S.O.

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America:—Fossils from Canandaigua, &c., New York; CLARKE & LUTHER (6).—Ordovician fauna at Trenton Falls; WHITE, Tr. N. York Ac. xv, p. 71.

Cambrian:—Notes on fauna, with n. genn., subgenn., and spp.; WALCOTT (53).

Europe:—Few fossils from Portugal; DELGADO, Commun. geol. Portugal vi, p. 116.—Fossils from Merioneth; FEARNSIDES, Quart. J. Geol. Soc. lxi, p. 608.

Asia:—Notes on Indian fauna; WALCOTT, P. Washington Ac. vii, p. 251.

America:—Fauna from Cape Breton, with n. spp.; MATTHEW (35).—Fauna of Eastern Canada, with list; MATTHEW (34).

Australasia:—Addition to S. Australian fauna, with a n. sp. of *Obolella*; ETHERIDGE (14).

III. SYSTEMATIC.

Campages, n. gen., type *C. furcifera*, n. sp., New South Wales; HEDLEY, Rec. Austral. Mus. vi, p. 43 fig.

†*Causea*, n. gen. for *C. formosa*, n. sp., Silurian; WIMAN, Bull. Geol. Inst. Upsala vi, p. 53.

†*Curticia*, n. gen., type *C. elegantula*, n. sp., Cambrian; WALCOTT, P. U. S. Mus. xxviii, p. 319.

†*Eostrophomena*, n. subgen. of *Strophomena*, type *S. elegantula*, n. sp., Cambrian; WALCOTT, t. c. p. 256.

†*Finkelnburgia*, n. subgen. of *Orthis*, type *O. finkelnburgi*, n. sp., Cambrian; WALCOTT, t. c. p. 277.

Hemithyris columnus, New South Wales; HEDLEY, Rec. Austral. Mus. vi, p. 44, fig. : n. sp.

†*Iphidea*, Billings, renamed *Iphidella*, q. v.

†*Iphidella*, n. n. for *Iphidea*, Billings non Bazley; WALCOTT, P. U. S. Mus. xxviii, p. 304.

†*Jamesella*, n. subgen. of *Nisusia*, type *Orthis perpasta*, Pomp.; WALCOTT, t. c. p. 252.

- †*Loperia*, n. subgen. of *Protorthis*, type *P. dougaldensis*, n. sp., Cambrian; WALCOTT, t. c. p. 287.
- †*Nisusia*, n. gen., type *Orthis festinata*, Billings; WALCOTT, t. c. p. 247.
- †*Orusia*, n. subgen. of *Orthis* for *O. lenticularis*, Wahl., &c.; WALCOTT, t. c. p. 273.
- †*Otusia*, n. subgen. of *Billingsella* for *Orthis sandbergi*, Winchell; WALCOTT, t. c. p. 246.
- †*Paraphorhynchus*, n. gen. for *P. elongatus*, n. sp., &c., Kinderhook series of U. S. A.; WELLER, Tr. Ac. St. Louis xv, p. 260.
- †*Quebecia*, n. gen., type *Obolella circe*, Billings; WALCOTT, P. U. S. Mus. xxviii, p. 320.
- †*Rustella*, n. gen., type *R. edsoni*, n. sp., Cambrian; WALCOTT, t. c. p. 311.
- †*Schuchertina*, n. gen., type *S. cambria*, n. sp., Cambrian; WALCOTT, t. c. p. 323.
- †*Swantonina*, n. gen., type *Camarella antiqua*, Billings; WALCOTT, t. c. p. 296.
- Terebratalia transversa*, Sby., variation; SHIMER, Amer. Natural. xxxix, p. 691.

IX. BRYOZOA.

BY

HELEN P. KEMP.

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INTRODUCTION.

THE Bryozoa literature of 1905 is marked by some important papers on structure, development and relationship. RETZIUS (61, 62) has an excellent monograph on the nervous system of certain Bryozoa demonstrating, by means of the silver method, undoubted nerve cells from which fibres can be traced to their junction with larger central strands; also a paper on the sperm-apparatus of various evertbrates. WATERS (76) reports observations on the structure of *Entalophora regularis* showing the presence of a thick membranous transverse wall near the distal end of the tentacle-sheath. DUBLIN (30, 31) reports work on the relationship between the nucleoli and the chromosomes of the somatic and germ cells of *Pedi-*

cellina americana. By observations of their respective stain affinities, and their disposition at various periods of the cell metabolism, he shows that the nucleoli are not chromatin bodies and come only incidentally into connection with the chromosomes to which they in no way give origin. He insists upon the importance of an early mingling of gonomic characters in order to ensure perfect larvæ, and points out that this supports the fact of the nucleoli being unconnected with the gonometry of the cell. CUMINGS (22, 23) in a paper upon the development and metamorphosis of *Fenestella* brings forward evidence that the genetic relation of this form to the Cyclostomata proves the latter to be the ancestor of the Cryptostomata and thus of the Cheilostomata. He shows a tendency towards concentration of the earlier developmental stages, and explains the large size of the protœcium in ancient types as due to a less degree of acceleration. Miss A. ROBERTSON (64, 65) has a note on the Embryology and Embryonic fission of the genus *Crisia*; and also a monograph on the Cheilostomatous Bryozoa of the West Coast of North America. She criticises Hincks' diagnosis of the *Aeteidae*. HALLEZ (34) has a paper on rheotropism in *Bugula avicularia*.

CALVET (10, 11) gives descriptions of the marine Bryozoa in the collection of the Musée Royal at Brussels, and from the zoological station at Cette; RÖMER (66) a list of Norwegian Bryozoa; SEELIGER (69) a note on Bryozoan larvæ and metamorphoses. Miss L. R. THORNLY (74) has a report on Herdman's collection of Polyzoa from Ceylon.

AMEGHINO (1) in "l'âge des formations sédimentaires de Patagonie" criticises Hatcher's views. NEVIANI (53, 54, 55) continues his bibliography of living and fossil Bryozoa, and has a paper on the Eocene fossils from Villatorta. THEVENIN (72) has a note on the Fossils of the Lower Carboniferous layer of Djebel Bechar, and WHITFIELD (80) on a new genus and species of Lower Carboniferous Bryozoon. MAPLESTONE (46) gives a list of the Fossil Cheilostomatous Polyzoa of the Victorian Tertiary Deposits. LANG (42) has a paper on *Stomatopora antiqua* and its related Liassic forms.

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 Bull. viii, 1905, pp. 347-364, 14 text-figg.; and germ cells, DUBLIN (30).
P. echinata Sars, I. Embryonalentwicklung, LEBEDINSKY, Biol. Centrbl.
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X. CRUSTACEA.

(Including
GIGANTOSTRACA AND PYCNOGONIDA.)

BY

W. T. CALMAN, D.Sc.

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INTRODUCTION.

THE great increase in the number of titles recorded under Crustacea as compared with last year (355 against 258) is partly due to the later date of closing the list, but chiefly to the rigorous preliminary searching of the periodicals by Mr C. Hadrill.

No very outstanding contributions to the general morphology of the Crustacea seem to be among the works recorded, though several authors such as CARPENTER (56) and THIELE (301) deal with questions affecting the class as a whole. In two papers on *Isopoda* (129 & 130), HANSEN has elucidated many points of morphology with his accustomed thoroughness. Especially in that dealing with the *Sphæromidæ* (130) he has provided a stable basis for the classification of a large and hitherto chaotic group. G. SMITH (285) has vindicated the general accuracy, on which doubt had been cast, of Fritz Müller's account of dimorphism in male *Tanaidæ*. In the same paper he also describes, in the males of certain crabs, an alternation of breeding and non-breeding phases, parallel to that long known in the genus *Cambarus*. BOUVIER'S (25) memoir on the *Atyidæ* not only provides a valuable revision of the family but gives a most interesting account of the "mutations" which he has discovered in these freshwater prawns. Attention should also be called to PRZIBRAM'S (231) study of "Heterochelie" in Decapods.

BLANC'S (19) announcement of the discovery of a Caprellid in the Lake of Geneva is somewhat startling, but it is inevitable that it should be received with scepticism while it rests on the evidence of a solitary specimen.

Among the more purely systematic works an important place must be given to ALCOCK'S fine monograph of the Indian *Paguridea* (1). Mention may also be made of the long series of papers on the collections of the Prince of Monaco (26-28, 31-34, 61-66, 81-85, 87, 126, 127, 258, 259) and on those from the West of Ireland (51, 52, 104, 105, 137, 138, 224, 297-300), from the Maldive Islands (88, 317, 337), Ceylon (223, 265, 290), and the Cape (293), and of DADAY'S large work on the freshwater fauna of Paraguay (92).

The most important event of the year as regards the *Pycnogonida* is HODGSON'S (9) redescription of the long lost *Decolopoda*, which appeared almost simultaneously with LOMAN'S (11) confident assertion that this animal is "ein irrationelles Monstrum."

The inconvenience caused by repaged reprints is unfortunately familiar enough, but a still more misleading practice, new to the present Recorder, has been followed in some reprints from the Bull. Mus. Paris, in which the original pagination is carefully preserved while the setting of the type is altered so that the pages no longer correspond to those of the original.

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4. ——. A Revision of the "Genus" *Peneus*, with diagnoses of some new species and varieties. Op. cit. (7) xvi, pp. 508-532.
5. — & MACGILCHRIST, A. C. Illustrations of the Zoology of the ...Investigator. Crustacea. Part xi, pls. lxviii-lxxvi, 1905.
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13. BAUDOIN, M. Du mode de fixation dorsale de *Lernæenicus sardinae* sur son hôte. C.R. Ac. Sci. cxl, pp. 326 & 327.
14. —. Nouvelles observations sur le *Lernæenicus*, Copépode parasite de la Sardine. Bull. Mus. Paris xi, 1905 (5), pp. 299 & 300.
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15. BIBERHOFER, RAOÛL. Ueber Regeneration des dritten Maxillipedes beim Flusskrebbs (*Astacus fluviatilis*). Arch. Entwicklmech. xix, pp. 133-137, 5 text-figg.
16. BIGOT, —. Catalogue critique de la collection Defrance, conservée au Musée d'histoire naturelle de Caen. Deuxième partie, Cephalopodes, Arthropodes et Vers. Bull. Soc. Normand. viii, pp. 250-273. [Fossil Crustacea, pp. 265-268.]
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26. —. Sur les Palinurides et les Eryonides recueillis dans l'Atlantique oriental par les expéditions françaises et monégasques. C.R. Ac. Sci. cxl, pp. 479-482.
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28. —. Sur les Crustacés décapodes (abstraction faite des Carides) recueillis par le yacht "Princesse-Alice" au cours de la campagne de 1905. Op. cit. cxli, pp. 644-647.

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30. —. Sur les Thalassinidés recueillis par le "Blake" dans la mer des Antilles et le golfe du Mexique. T. c. pp. 802-806.
31. —. Palinurides et Eryonides recueillis dans l'Atlantique orientale pendant les campagnes de "l'Hirondelle" et de la "Princesse-Alice." Bull. Mus. Monaco, No. xxviii, 7 pp. (31st March.)
32. —. À propos des Langoustes longicornes des îles du Cap Vert. Op. cit. No. xxix, 6 pp. (31st March.)
33. —. Nouvelles observations sur les Glaucothoés. Op. cit. No. li, 15 pp. (12th November.)
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49. ——. A revision of "Crustacea Isopoda Terrestria" with additions and illustrations. 2. *Spherilloninae*. 3. *Armadillo*. Kjøbenhavn. H. Hagerup, publisher, Nielsen and Lydicke, printers, 1904, pp. 33-144, pls. vi-x. Size 17.5 × 26.5 cm.
This forms the continuation of No. 48 but, unlike it, was only published separately, and only in one size.
On p. 50 and elsewhere in this paper reference is made to "Dollf[us], in Weber, Reise Niederl. O.-Ind. iv." The fourth volume of Prof. Weber's work is not yet (September 1906) obtainable in London. The Recorder is indebted to Mr Budde-Lund for copies of his work and for the information given in these notes.
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52. ——. The Marine Fauna of the West Coast of Ireland. Part iv. Cumacea. Fisheries Ireland Sci. Invest. 1904, i (1905), 52 pp., 5 pls.
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Ostracoda, *Amphipoda*; BUCIŃSKAIO (47): Crimea, *Oniscoidea* n. sp.;
 BUDDE-LUND (49): Crimea, *Copepoda*, *Ostracoda*, *Amphipoda*, *Isopoda*;
 LEBEDINSKIĪ (165 & 166): Trans-Caucasian and Trans-Caspian regions
 and Turkestan, *Copepoda*; VAN DOUWE (102): Saisan Lake, Semipalatinsk,
Cladocera, *Copepoda*; ZYKOFF (355).

Tripoli, *Oniscoidea* n. sp.; BUDDE-LUND (49).

Sinai, *Cladocera*; STINGELIN (296).

Tunis, *Decapoda*; CHAIGNON (58); *Brachyura*, *Macrura*, *Phyllopoda*;
 DEYROLLE (94): Sahara, *Oniscoidea* n. sp.; DOLLFUS (97).

Cyprus, *Oniscoidea*; DOLLFUS (96).

Elba and Pianosa, *Oniscoidea*; NOBILI (189).

Balearic Ids., *Crustacea*; DE BUEN (50): Majorca, *Isopoda* n. sp.;
 RACOVITZA (234).

b. Oriental Region.

Balúchistán, *Apus*; VREDENBURG (316).

Indian terrestrial *Paguridea*; ALCOCK (1).

Siam, Selangor, Pulo Penang, *Oniscoidea* n. spp.; BUDDE-LUND (49).

Malay Archipelago, *Palæmon* (*Caridea*); DE MAN (175).

Cheribon, Dutch East Indies, *Isopoda*; WILLINK (329).

Borneo, Philippines, Liu-Kiu Ids., *Oniscoidea*; BUDDE-LUND (49).

Yunnan-Fu, *Potamonidæ* n. sp.; CALMAN (53).

c. Ethiopian Region.

St Thomas Id. (Gulf of Guinea), *Oniscoidea* n. sp.; BUDDE-LUND (49).

Nyassaland, Natal, Cape Colony, *Oniscoidea* n. spp.; BUDDE-LUND (49):

Orange River Colony, *Phyllopoda*, *Cladocera* n. spp., *Copepoda* n. sp.;
 GURNEY (120): Cape Colony, *Phyllopoda* n. spp., *Cladocera*, *Copepoda*;
 SARS (261).

Madagascar: *Atyidæ* (*Caridea*) n. sp.; BOUVIER (25): *Caridina* (*Caridea*)
 n. sp.; NOBILI (190): *Potamon* (*Cyclometopa*) n. sp.; NOBILI (193):
Phyllopoda n. sp.; NOBILI (194).

Madagascar, Mauritius, Seychelles, *Oniscoidea* n. spp.; BUDDE-LUND
 (49).

d. Nearctic Region.

North America, distrib. of *Cambarus* (*Astacidea*); ORTMANN (213):
Isopoda n. spp.; RICHARDSON (246): *Phyllopoda*; SHANTZ (279).

New England, list of Crustacea, with localities; RATHBUN (238).

Nantucket, *Ostracoda* n. sp.; CUSHMAN (91).

New York city, *Malacostraca*; PAULMIER (220).

Western Pennsylvania, *Cambarus* n. sp.; ORTMANN (211).

Wisconsin, *Copepoda*, *Cladocera*; JUDAY (154).

Kentucky, *Astacidæ*; ORTMANN in WILLIAMSON (326).

Louisiana, *Cambarus* (*Astacidea*) n. sp.; ORTMANN (214).

e. Neotropical Region.

Hayti, *Oniscoidea* n. sp.; BUDDE-LUND (49).

Guatemala, *Cambarus* n. sp.; ORTMANN (212).

Brazil, Rio Juruá, *Brachyura*; ORTMANN in v. IHERING (143).

Brazil, Ecuador, Chile, *Oniscoidea* n. spp.; BUDDE-LUND (49).

Paraguay, *Phyllopoda*, *Cladocera* n. spp., *Ostracoda* n. spp., *Copepoda*
 n. spp.; DADAY (92).

f. *Australian Region. (Including Pacific Islands.)*

Australia, New Guinea, Bismarck Archip., *Oniscoidea* n. spp.; BUDDELUND (49).

New Zealand and Australia, distribution of introduced *Oniscoidea*; CHILTON (68): New Zealand, Chatham Ids., *Oniscoidea* n. spp.; BUDDELUND (49): New Zealand and Auckland Ids., *Amphipoda* and *Isopoda*; CHILTON (70): Chatham Ids. (brackish water), *Asellota* n. sp., *Copepoda* n. spp., *Ostracoda* n. sp.; SARS (260).

B. MARINE.

Distribution of *Dorippidæ* (*Brachyura*, *Oxystomata*); ALCOCK (3): of *Paguridea*; ALCOCK (1): of *Peneus* (s. lat.) (*Penæidea*); ALCOCK (4): of *Phyllocarida*; THIELE (303): of *Cladocera*; STINGELIN (295).

"Bipolarity" and distribution of *Schizopoda* and *Phyllocarida*; ZIMMER & THIELE (349).

a. *Atlantic and Mediterranean.*

European Seas, *Cirolaninæ* (*Isopoda*, *Flabellifera*) n. spp.; HANSEN (128).

Atlantic Ocean, *Copepoda* n. spp.; WOLFENDEN (336): N. Atlantic, *Loricata* and *Eryonidea* n. spp.; BOUVIER (31): *Glaucothoë* (Pagurid larvæ); BOUVIER (33): *Macrura*, *Eryonidea* n. spp.; BOUVIER (34): *Amphipoda*, *Gammarina* n. sp.; CHEVREUX (63): *Amphipoda*, *Gammarina*, list and n. sp.; CHEVREUX (64): list of *Scinidæ* (*Amphipoda*, *Hyperina*) and n. sp.; CHEVREUX (65): *Amphipoda*, *Hyperina* n. sp.; CHEVREUX (66): *Caridea* n. spp.; COUTIÈRE (87): *Isopoda* n. sp.; HANSEN (130): list of Crustacea; NORMAN (204): bathypelagic Crustacea; RICHARD (243): *Copepoda*, *Calanoida*, list and n. spp.; SARS (258 & 259): N.E. Atlantic, *Schizopoda*; CALMAN (51): N.E. Atlantic, W. of Ireland and Bay of Biscay, *Schizopoda* n. spp.; HOLT & TATTERSALL (138): Bay of Biscay, *Schizopoda* of plankton; HOLT & TATTERSALL (139): 200 miles off W. of Ireland, *Schizopoda*; HOLT & TATTERSALL (140): E. Atlantic, *Caridea* n. spp.; COUTIÈRE (81): *Eryonidea* n. spp.; BOUVIER (28): *Penæidea* and *Stenopidea*; BOUVIER (27): *Loricata* n. spp., *Eryonidea* n. spp.; BOUVIER (26): between Gibraltar, Azores and Canaries, *Schizopoda* n. spp.; HANSEN (126 & 127): between Azores and Canaries, *Amphipoda*, *Gammarina* n. sp.; CHEVREUX (62): Azores, *Amphipoda*, *Gammarina* n. sp.; CHEVREUX (61): Cape Verde Ids. *Loricata*; BOUVIER (32).

Norway, *Copepoda*, *Ostracoda*, *Cirripectida*, *Phyllocarida*, *Amphipoda*, *Isopoda*, *Cumacea*, *Schizopoda*, *Decapoda*; NORDGAARD (203): *Copepoda* n. spp.; SARS (257): Drøbakund, Crustacea, esp. *Decapoda* and *Cirripectida*; KIÆR (161).

North Sea, Crustacea; CONSEIL INTERNAT. EXPL. MER (75): *Gammarina* n. spp.; REIBISCH (241): North Sea and Zuyder Zee, *Copepoda*, *Cladocera*, *Caprellina*, *Stomatopoda*, VAN BREEMEN (38).

British Seas: Revised nomenclature of *Amphipoda*, *Tanaidacea* and *Isopoda*; NORMAN (205): *Copepoda* n. sp.; SCOTT (270).

Scotland: *Schizopoda*, *Cumacea*, *Amphipoda*, *Isopoda*, *Ostracoda*, *Copepoda*, *Cladocera*; T. SCOTT (266): *Copepoda* n. spp.; T. SCOTT (267): *Copepoda* n. spp., *Isopoda*; T. SCOTT (268): Firth of Forth, *Copepoda* n. sp.; NORMAN & SCOTT (207): Clyde area, *Schizopoda*; PATIENCE (217): Clyde, Plankton Crustacea, esp. *Copepoda* and *Cladocera*; SCOTT (269).

England: Off Northumberland and Durham, *Cumacea*, *Amphipoda*, *Isopoda*, *Copepoda*, n. spp.; BRADY (36): Cornwall, *Copepoda* n. sp.;

WILSON (333): Devon and Cornwall, *Copepoda* n. spp.; NORMAN & SCOTT (207): English Channel, Crustacea; GOUGH (116).

Irish Sea: *Decapoda*, *Copepoda*; JOHNSTONE (150): Crustacea, esp. *Copepoda*, *Cladocera*, larval *Decapoda* and *Stomatopoda*; A. SCOTT (264): Port Erin, *Monstrilla*; ASHWORTH (10): *Isopoda*; HEWITT (134): Crustacea, esp. *Copepoda* and *Cladocera*; A. SCOTT (263).

Ireland: List of *Ostracoda*; NORMAN (206): *Copepoda*; PEARSON (224): off Co. Dublin, *Decapoda*; COLGAN (73).

West of Ireland: *Cumacea* n. spp.; CALMAN (52): *Copepoda* n. spp.; FARRAN (104): *Cirripedia*; FARRAN (105): *Tanaidacea* and *Isopoda* n. spp.; TATTERSALL (297): *Phyllocarida*; TATTERSALL (298): *Stomatopoda* (larvæ); TATTERSALL (299): *Tanaidacea* n. sp., *Isopoda* n. spp.; TATTERSALL (300).

French coast: Boulogne, *Copepoda*; CLIGNY (72): *Decapoda*; HALLEZ (125): Saint-Vaast-la-Hogue, *Epicaridea*; GIARD (112): Arcachon, *Copepoda*; PÉREZ (225): Guéthary, *Caridea*; PÉREZ (227).

Portugal, Crustacea, lists; NOBRE (202).

Mediterranean: *Copepoda*; ANTHONY & CALVET (8): *Brachycarpus* (*Caridea*); NOBILI (191): Italy, parasitic *Copepoda*; GOGGIO (114): Naples, *Copepoda*; BRIAN (42): *Hyperina*; SENNA (275): *Caridea*; SENNA (276): Messina, *Macrura* n. spp.; RIGGIO (250): *Schizopoda* and *Decapoda*; THIELE (302): Palermo, *Macrura*; RIGGIO (251).

N. America: *Isopoda* n. spp.; RICHARDSON (246): *Copepoda* n. spp.; WILSON (333): Gulf of St Lawrence, *Copepoda*, *Branchiura*, and *Cladocera*; T. SCOTT (272): New England, list of Crustacea, with localities; RATHBUN (238): Southern New England, *Amphipoda* n. spp.; HOLMES (136): Massachusetts, *Copepoda* n. spp.; WILSON (332): Woods Hole, *Branchiura*; WILSON (330).

New York city: *Schizopoda*, *Decapoda*, *Stomatopoda*, *Cumacea*, *Amphipoda*, *Tanaidacea*, *Isopoda*; PAULMIER (220): Florida, *Catometopa* n. sp.; RATHBUN (237).

West Indies and S. America, *Penæidea* and *Stenopidea* n. spp.; BOUVIER (29): West Indies and Gulf of Mexico, *Thalassinidea* n. spp.; BOUVIER (30).

S. Atlantic, *Schizopoda* n. sp.; ILLIG (145).

Cape of Good Hope, see under Indo-Pacific.

b. Indo-Pacific.

Red Sea, *Copepoda* n. sp.; BRIAN (44): *Brachyura* n. sp.; NOBILI (198); Red Sea and Gulf of Aden, *Brachyura* n. spp., *Anomura* n. spp., *Macrura* n. spp.; NOBILI (201): Red Sea, coast of Arabia, and Persian Gulf, *Brachyura* n. spp., *Anomura* n. spp., *Macrura* n. spp.; NOBILI (197): Persian Gulf, *Brachyura* n. sp., *Anomura* n. sp., *Macrura* n. spp.; NOBILI (200): Indian Seas, Persian Gulf, Arabian Sea, Bay of Bengal, Gulf of Martaban, Andaman Ids., *Decapoda* n. spp.; MACGILCHRIST (174).

Indian Ocean, *Glaucothoë* n. sp. (Pagurid larvæ); BOUVIER (33): *Schizopoda* n. sp.; ILLIG (146).

Indian Seas: *Paguridæ* n. spp.; ALCOCK (1): *Penæidea* n. spp.; ALCOCK (4): list of pedunculate *Cirripedia*; ANNANDALE (7).

Andaman Sea, *Oxystomata* n. sp.; ALCOCK (3).

Gulf of Manaar: *Macrura* n. spp.; PEARSON (223): *Ostracoda* n. spp.; A. SCOTT (265): *Tanaidacea* n. spp., *Isopoda* n. spp.; STEBBING (290).

Maldive and Laccadive Ids., *Paguridæ* n. spp.; ALCOCK (2): *Alpheidæ* (*Caridea*) n. spp.; COUTIÈRE (80 & 88): *Amphipoda* n. spp.; WALKER (317): *Copepoda* n. spp.; WOLFENDEN (337).

Zanzibar, *Decapoda* (*Caridea* n. sp.), *Stomatopoda*; NOBILI (192):

Zanzibar, Aldabra etc., *Brachyura* n. spp., *Anomura*, *Macrura* n. sp., *Stomatopoda* n. spp.; LENZ (167).

Cape of Good Hope, *Brachyura* n. sp., *Anomura* n. sp., *Macrura* n. spp., *Schizopoda*, *Copepoda*; STEBBING (293): *Ascothoracida* (*Cirripedia*) n. sp.; LE ROI (254).

Malaysian Seas: *Cirripedia* n. spp.; ANNANDALE (7): *Cumaceu* n. spp.; CALMAN (54): *Nephropsidea* n. sp., *Loricata* n. spp., *Eryonidea* n. sp., *Thalassinidea* n. spp.; DE MAN (176): Java, *Isopoda* n. sp.; HANSEN (130).

German New Guinea, *Decapoda* n. spp.; NOBILI (196).

South Australia, *Brachyura* n. spp.; BAKER (11): *Anomura* n. sp.; BAKER (12): off Port Jackson, *Brachyura* n. spp., *Anomura* n. sp., *Macrura*; GRANT (117).

Philippines, *Ascothoracida* (*Cirripedia*) n. sp.; LE ROI (254).

Hong Kong, *Penæidea* n. spp.; ALCOCK (4).

Japan: *Brachyura*; DOFLEIN in ZIMMER (349): *Penæidea* n. sp.; KISHINOUE (162): *Catometopa* n. sp.; NOBILI (195).

N. Pacific, Crustacea; NORMAN (204).

Hawaiian Ids., *Schizopoda*; ORTMANN (215).

Gambier Ids., *Oxyrhyncha* n. sp.; BOUVIER & SEURAT (35).

Eastern Pacific, *Epicaridea* n. sp.; RICHARDSON (249).

North and South America, *Copepoda* n. spp.; WILSON (333): N. America, *Isopoda* n. spp.; RICHARDSON (246): Alaska, *Isopoda* n. sp.; RICHARDSON (248): California, *Tanaidacea* n. spp.; RICHARDSON (244): Lower California, *Stomatopoda* n. sp.; COUTIÈRE (86): Panama, *Isopoda*, *Flabellifera* n. sp.; RICHARDSON (245): Juan Fernandez, *Decapoda* and *Stomatopoda*; PORTER (230): Chile, *Cirripedia*; VAYSSIÈRE (313): Coquimbo, *Galatheidæ*; PORTER (229).

c. Arctic and Antarctic.

Arctic Ocean, list of Crustacea; NORMAN (204).

Antarctic Seas: *Gammarina* n. spp.; CHEVREUX (67): Crustacea; HODGSON (135): *Schizopoda* n. sp.; ILLIG (146): *Phyllocarida* n. sp.; THIELE (303): *Copepoda* n. spp.; WOLFENDEN (336): Cape Adare, *Amphipoda*; THOMSON (305).

2. GEOLOGICAL.

Catalogue of fossil *Brachyura* and *Cirripedia* in DeFrance Collection; BIGOT (16).

Glacial deposits, Frankfurt (Oder), *Ostracoda*; HUCKER (142): Post-pliocene, Palermo, *Brachyura*; CHECCHIA-RISPOLI (60): Pleistocene, Württemberg, *Ostracoda* n. spp.; SIEBER (282).

Tertiary: Mainz district, *Ostracoda* n. spp.; LIENENKLAUS (168): Nigeria, *Macrura* n. sp.; AMMON (6): New Hebrides, *Ostracoda*; CHAPMAN (59): "Molasse," Berne, *Cirripedia*; TIÈCHE (308): Lower Tertiary, Victoria, *Catometopa*; HALL (124): Upper Miocene, France, *Cirripedia*, *Brachyura*; COUFFON (77): Miocene, Gay Head, Mass., *Brachyura*; CUSHMAN (90): Württemberg, *Ostracoda* n. spp.; SIEBER (282): Eocene, France, *Decapoda* and *Cirripedia* (spp. indet.); DONCIEUX (99).

Cretaceous: *Decapoda* and *Cirripedia*, types in Philadelphia; JOHNSON (149): Münster, *Cirripedia*, *Macrura*; WEGNER (321): New Jersey, *Brachyura* [*? Dromiacea*] n. sp.; WELLER (323).

Jurassic: Tithonian, Stramberg, *Isopoda*, *Anomura*, *Brachyura*; REMEŠ (242).

Trias: Britain, *Phyllopoda*; NEWTON (188), WOODWARD (342): Germany, *Phyllopoda*; WALTHER (319).

Carboniferous : Scotland, *Crustacea* ; PEACH & HORNE (222) : Lower Coal Measures, Lancashire, *Macrura* n. sp. ; WOODWARD (341).

Devonian : Ural, *Ostracoda* ; KAZANSKII (156) : Argentine, *Ostracoda* n. sp. ; THOMAS (304) : Upper Devonian, New York, *Ostracoda* n. sp. ; LOOMIS (172).

Silurian : Holland, *Ostracoda* ; JONKER (151) : N. Baltic region, *Ostracoda* n. spp. ; WIMAN (334) : New York, *Ostracoda* ; SHIMER (281).

Ordovician : Chazy, New York, *Ostracoda* n. spp. ; RAYMOND (240) : Pennsylvania, *Phyllopoda* n. sp. : COLLIE (74).

IV. SYSTEMATIC.†

[In addition to papers quoted below, see DE BUEN (50), CARPENTER (56), CONSEIL INTERNAT. EXPL. MER (75), COULON (78), GADZIKIEWICZ (108), GILSON (113), GOUGH (116), HODGSON (135), HOLT (137), JOUBIN (153), LIVON & BRIOT (169), LOEB (170), NOBRE (202), NORDGAARD (203), NORMAN (204), †PEACH & HORNE (222), QVIGSTAD (233), RICHARD (243), THIELE (301).

List of Crustacea of New England ; RATHBUN, Pap. Boston Soc. vii.

A. MALACOSTRACA.

1. DECAPODA.

[See also BORDAGE (24), COLGAN (73), CUÉNOT (89), DEYROLLE (94), †DONCIEUX (99), GARREY (110), HALLEZ (125), HERRICK (133), †JOHNSON (149), JOHNSTONE (150), JORDAN (152), KIÆR (161), KOLTZOFF (163), KÜNCKEL (164), PAULMIER (220), SAINT-HILAIRE (256), DOFLEIN in ZIMMER (349).]

Decapoda, "heterochelie" and regeneration ; PRZIBRAM, Arch. Entwickl.-mech. xix, pp. 181-247, pls. viii-xiii, and Zentrbl. Physiol. xviii, No. 24.

a. BRACHYURA.

[See also †BIGOT (16), †COUFFON (77), GARSTANG (111), PAULMIER (219), †REMEŠ (242).]

OXYRHYNCHA.

Cyrtomaia goodridgei, p. 251 ; MACGILCHRIST, Ann. Nat. Hist. (7) xv.

Eumedonus zebra, p. 344 ; LENZ, Abh. Senckenb. Ges. xxvii.

Eumedon[us] convictor, Gambier Ids., in *Echinothrix turcarum*, p. 629 ; BOUVIER & SEURAT, C.R. Ac. Sci. cxl : *Eumedonus granulatus*, Persian Gulf, p. 253 ; MACGILCHRIST, Ann. Nat. Hist. (7) xv : n. spp.

Halimus laevis, p. 119, pl. xxi, figg. 1 & 1a, *truncatipes*, p. 120, pl. xxii, figg. 2 & 2a, *tumidus*, p. 121, pl. xxii, figg. 3 & 3a, var. *gracilipes*, n. var., pl. xxiii, fig. 5 ; BAKER, Tr. R. Soc. S. Austral. xxix.

Halimus gracilis, Investigator Straits, p. 124, pl. xxiii, figg. 4 & 4a ; BAKER, t. c. n. sp.

Huenia grandidieri, p. 342, pl. xlvi, figg. 2-2c ; LENZ, Abh. Senckenb. Ges. xxvii.

† This sign when prefixed to a quotation indicates a fossil form or forms. Where the character of a reference is not indicated the words "description" or "descriptive notes" are to be understood.

- Hyastenus fultoni*, off Port Jackson, p. 313, pl. xi, fig. 1; GRANT, P. Linn. Soc. N. S. Wales 1905 (2), n. sp.
- Inachus scorpio*, high and low dimorphism, p. 313, text-figg. 1-8; SMITH, Mt. Stat. Neapel xvii: *I. dorsettensis*, parasitic castration by a gregarine, pp. 406-410, pl. xxvi; SMITH, t. c.
- Lambrus pisoides*, p. 345; LENZ, Abh. Senckenb. Ges. xxvii.
- L. (Thyrolambrus) leprosus*, p. 399, (*Rhinolambrus*) *montiger*, p. 400, Red Sea; NOBILI, Bull. Mus. Paris xi (1905), n. spp.
- Mamaia* [see also *Paramaya*], nomenclature; STEBBING, P. Soc. Washington xviii, pp. 157-159.
- Menæthiops bicornis*, p. 346, pl. xlvii, figg. 3-3e; LENZ, Abh. Senckenb. Ges. xxvii.
- Micippa mascarenica* var. *nodulifera*, n. var., p. 127, pl. xxiv, figg. 8 & 8a; BAKER, Tr. R. Soc. S. Austral. xxix: *M. thalia*, p. 24; STEBBING, S. African Crust. iii.
- Parahoplophrys* n. g. (near *Hoplophrys*), p. 238, *nodulosa*, Persian Gulf, p. 239; NOBILI, Bull. Mus. Paris xi (1905), n. sp.
- Paramaya* de Haan = *Maia* Lamk. = *Mamaia* Stebbing; RATHBUN, P. Soc. Washington xviii, p. 73.
- Paramicippa hispida*, S. Australia, p. 126, pl. xxiv, figg. 6 & 6a; BAKER, Tr. R. Soc. S. Austral. xxix, n. sp.
- Parthenope horrida*, p. 27; STEBBING, S. African Crust. iii.
- Scyramathia hertwigi*, p. 25; STEBBING, t. c.
- Simocarcinus pyramidatus*, p. 342; LENZ, Abh. Senckenb. Ges. xxvii.
- Thyrolambrus* [see also *Lambrus*] *excavatus*, Investigator Straits, p. 129, pl. xxiv, fig. 7; BAKER, Tr. R. Soc. S. Austral. xxix, n. sp.

CYCLOMETOPA.

- Cyclometopa* dist. from *Catometopa* by char. of chelæ, p. 234; PRZIBRAM, Arch. Entwicklmech. xix.
- Actæa alphonsi* n. nom. for *A. pilosa* A. M. E., nec Stimpson, p. 235, *A. rufopunctata* var. *retusa* n. var., p. 404; NOBILI, Bull. Mus. Paris xi (1905): *A. rüppellii*, p. 351; LENZ, Abh. Senckenb. Ges. xxvii: *A. granulata*, p. 30; STEBBING, S. African Crust. iii.
- A. sabæa*, p. 403, *pisigera*, p. 404, Red Sea; NOBILI, Bull. Mus. Paris xi (1905), n. spp.
- Actumnus margarodes*, Persian Gulf, p. 260; MACGILCHRIST, Ann. Nat. Hist. (7) xv: *A. margarodes*, pl. lxxvi, fig. 3; ALCOCK & MACGILCHRIST, Illustr. Zool. Investigator: *A. bonniere*, Persian Gulf, p. 163; NOBILI, Bull. Mus. Paris xi (1905); n. spp.
- Atelecyclus*, respiration; GARSTANG, Tr. Norfolk Soc. viii (1), pp. 22-24.
- †*A. rotundatus*, post-pliocene, Palermo; CHECCHIA-RISPOLI, Natural. Sicil. xviii (4), pp. 86-89, 1 text-fig.
- Atergatopsis flavo-maculatus*, p. 349, pl. xlvii, fig. 7; LENZ, Abh. Senckenb. Ges. xxvii.
- Benthochascon hemingi*, pl. lxxvi, figg. 4 & 4a; ALCOCK & MACGILCHRIST, Illustr. Zool. Investigator.
- Callinectes sapidus*, habits and life-history; HAY, Rep. Bureau Fisheries (1904) 1905, pp. 397-413, 4 pls.: fishery in Maryland; ROBERTS, t. c. p. 417-432.
- Cancer pagurus*, hatching; WILLIAMSON, Rep. Fish. Board Scotland xxiii, Pt. iii, pp. 154 & 155.
- †*C. proavitus*, p. 386, pl. ii, fig. 14; CUSHMAN, Amer. Natural. xxxix.
- Carcinus mænas*; THOMSON, Ann. Scott. Nat. Hist. 1905, pp. 56 & 57:

- occurrence far from sea, in Tunis; CHAIGNON, Bull. Soc. Autun xvii, p. 81.
- Carpilodes diodoreus*, Djiboutil, p. 403; NOBILI, Bull. Mus. Paris xi (1905), **n. sp.**
- Charybdis (Goniosoma) heterodon*, Red Sea, p. 401; NOBILI, t. c. **n. sp.**
- Chlorodius lippus*, Red Sea, p. 405; NOBILI, t. c. **n. sp.**
- Chlorodopsis areolata*, p. 354, pl. xlvii, fig. 8, *melanodactyla*, p. 355; LENZ, Abh. Senckenb. Ges. xxvii.
- Dilocarcinus peruvianus*, p. 454; ORTMANN in v. IHERING, Revist. Mus. Paulista vi.
- Geryon quinquedens*, p. 36; STEBBING, S. African Crust. iii.
- Gomezia distincta* var., p. 263; MACGILCHRIST, Ann. Nat. Hist. (7) xv.
- Goniosoma merguense*, p. 360, *lineatum*, p. 360, pl. xlviii, figg. 5-5c; LENZ, Abh. Senckenb. Ges. xxvii.
- Halimede hendersoni*, Persian Gulf, p. 162; NOBILI, Bull. Mus. Paris xi (1905), **n. sp.**
- Heteropanope pharaonica*, Red Sea, p. 407, text-fig. 2; NOBILI, t. c. **n. sp.**
- Leptodius edwardsii*, p. 352; LENZ, Abh. Senckenb. Ges. xxvii.
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- Portumnoides n. g. (Carcinidæ) garstangi n. nom.* [!] for *nasutus* Latr., p. 448; BOHN, Bull. Sci. France Belgique xxxvi [Omitted Zool. Rec. 1902 (21).]
- Potamon (Potamon) pittarellii*, Madagascar, p. 1, fig.; NOBILI, Boll. Mus. Torino xx, No. 507: *P. (Geotelphusa) biroii*, New Guinea, p. 491, pl. xii, fig. 4; NOBILI, Ann. Mus. Hungar. iii: **n. spp.**
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- Trachycarcinus glaucus*, pl. lxxvi, figg. 1, 2, 2a; ALCOCK & MACGILCHRIST, Illustr. Zool. Investigator.
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- Xanthodes cumatodes*, Persian Gulf, p. 258; MACGILCHRIST, Ann. Nat. Hist. (7) xv, **n. sp.**

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- † *Archæoplax signifera*, p. 383, pls. i & ii; CUSHMAN, Amer. Natural. xxxix.
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- †*Tetracarcinus* n. g., *subquadratus*, Cretaceous, New Jersey, p. 136, pl. xv, figg. 4-6; WELLER, Rep. geol. Surv. New Jersey 1904 (1905), n. sp.

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- Galathea setosa*, South Australia, p. 267, pl. xxxv, figg. 2-2b; BAKER,

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- Grimothea gregaria*, function of last pair of legs; CHILTON, Tr. N. Zealand Inst. xxxvii, pp. 321 & 322, pl. xix.
- Munidopsis dasypus*, p. 245, *wardeni* var. *andamanica* **n. var.**, p. 245, *milleri*, var., p. 246, (*Orophorhynchus*) *ciliata*, p. 248; MACGILCHRIST, Ann. Nat. Hist. (7) xv : *M. trifida*, pl. lxx, fig. 1, *spinipes*, pl. lxx, fig. 2, *dasypus*, pl. lxx, fig. 3; ALCOCK & MACGILCHRIST, Illustr. Zool. Investigator.
- M. spinipes*, Bay of Bengal, p. 247; MACGILCHRIST, Ann. Nat. Hist. (7) xv, **n. sp.**
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- Uroptychus glyphodactylus*, Andaman Ids.; MACGILCHRIST, Ann. Nat. Hist. (7) xv, p. 249; ALCOCK & MACGILCHRIST, Illustr. Zool. Investigator, pl. lxx, fig. 4 & pl. lxxi, figg. 1-1d, **n. sp.**

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- Birgus latro*, p. 150, pl. xvi; ALCOCK, t. c. : habits; SEURAT, Bull. Mus. Paris xi, 1905 (3), pp. 146 & 147.
- Calcinus herbstii*, p. 53, pl. v, fig. 4, var. *lividus*, p. 55, *elegans*, p. 55, pl. v, fig. 2, *gaimardii*, p. 56, pl. v, fig. 3, *terrae-reginae*, p. 57, pl. v, fig. 7, *latens*, p. 58, pl. v, fig. 5; ALCOCK, Cat. Pagurides.
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- Cheiroplatea* sp., p. 242; MACGILCHRIST, Ann. Nat. Hist. (7) xv.
- Cheiroplatea macgilchristi*, Bay of Bengal; ALCOCK, Cat. Pagurides, p. 18, pl. i, fig. 3; ALCOCK & MACGILCHRIST, Illustr. Zool. Investigator, pl. lxix, figg. 2 & 2a, **n. sp.**
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- G. hendersoni*, Indian Ocean, p. 5; BOUVIER, t. c. n. sp.
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- Paguroopsis typica*, p. 28, pl. ii; ALCOCK, t. c.
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- P. wood-masoni*, Maldive Ids., p. 831; ALCOCK, Fauna Maldive ii (4): *P. wood-masoni*, Andaman Ids., p. 85, pl. ix, fig. 3; ALCOCK, Cat. Pagurides, n. sp.

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- Macrura, branchial system; COUTIÈRE, C.R. Ac. Sci. cxli, pp. 64-66.
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- Astacus* spp., atavistic regeneration; SCHULTZ, Arch. Entwickmech. xx, pp. 38-47, pl. ii: *A.*, in South Tyrol; HUBER, Arch. Hydrobiol. i (1), p. 72: *A. fluviatilis* in Hereford; BLAKE, Tr. Woolhope Club 1902/1904, p. 85: in Worcester; REA, Tr. Worcester Club 1897-99, p. 11 (1899): legislative protection in France; GALBERT, C.R. Ass. Franc. 1904 (1905), p. 755: regeneration; BIBERHOFER, Arch. Entwickmech. xix, pp. 133-137, 5 text-figg.: *A. japonicus*, parasite of; PIERANTONI, Annuar. Mus. Univ. Napoli i (31), 3 pp., 1 pl.
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C. hinei, Louisiana, p. 401, fig. 1; ORTMANN, Ohio Natural. vi: *C. monongalensis*, Pennsylvania, p. 395; ORTMANN, Ann. Carnegie Mus. iii (2): *C. (Procambarus) williamsoni*, Guatemala, p. 439, text-figg. 1-3; ORTMANN, t. c. (3): n. spp.
Faxonius n. subgen. of *Cambarus*, p. 97; ORTMANN, P. Amer. Phil. Soc. xlv.
Homarus vulgaris, phototropism of larvæ; BOHN, C.R. Ac. Sci. cxli, pp. 963-966: rotary movements of larvæ; BOHN, C.R. Soc. Biol. lix, 1905 (34), pp. 517 & 518: larval and post-larval stages figured; CHADWICK, P. Liverp. biol. Soc. xix, pp. 304-308, figg.: hatching, larval stages etc.; WILLIAMSON, Rep. Fish. Board Scotland xxiii, Pt. iii, pp. 65-107, pls. i-iv: *H. americanus*, fishery in U.S.; SMITH,

- Rep. U. S. Fish. Comm. xxix for 1903 (1905), pp. 141-147 : artificial rearing ; SHERWOOD, t. c. pp. 149-174, 3 pls. : causes of death in artificial rearing ; GORHAM, t. c. pp. 175-193, 3 pls. : phototropism of larvæ, HADLEY, Science (n. s.), xxii, pp. 675-678.
- Nephrops norvegicus*, notes on fishery, Ireland ; HOLT, Rep. Fisheries Ireland 1902-1903, Pt. ii, pp. xviii-xix : abnormal chela ; PATTERSON, Zoologist (4) ix, p. 350 & text-fig.
- N. arafurensis*, Malay Seas, p. 587 ; DE MAN, Tijdschr. Nederland. Dierk. Ver. (2) ix, n. sp.
- Procambarus* n. subg. of *Cambarus* (q.v.), p. 437 ; ORTMANN, Ann. Carnegie Mus. iii (3).

ERYONIDEA.

- Eryoneicus puritani* ; BOUVIER, Bull. Mus. Monaco xxviii, p. 6.
- E. faxoni*, E. Atlantic ; BOUVIER, C.R. Ac. Sci. cxl, p. 481, and Bull. Mus. Monaco xxviii, p. 5 : *alberti*, E. Atlantic ; BOUVIER, C.R. Ac. Sci. cxli, p. 645, and Bull. Mus. Monaco lv, p. 2 : *spinoculatus*, Terceira ; BOUVIER, Bull. Mus. Monaco xxviii, p. 7 : n. spp.
- Pentacheles trispinosus*, Malay Seas, p. 587 ; DE MAN, Tijdschr. Nederland. Dierk. Ver. (2) ix, n. sp.
- Polycheles agassizi*=*P. typhlops*, p. 480 ; BOUVIER, C.R. Ac. Sci. cxl : *P.*, notes on spp., p. 3, *debilis* var. *armatus* n. var., p. 4 ; BOUVIER, Bull. Mus. Monaco xxviii.
- P. dubius*, p. 490, *grimaldii*, p. 481, Azores ; BOUVIER, C.R. Ac. Sci. cxl : *P. dubius*, p. 4, *grimaldii*, p. 4 ; BOUVIER, Bull. Mus. Monaco xxviii : *P. eryoniformis*, E. Atlantic ; BOUVIER, C.R. Ac. Sci. cxli, p. 644, and Bull. Mus. Monaco lv, p. 2 : n. spp.

LORICATA.

- Arctus crenulatus*, Madeira ; BOUVIER, C.R. Ac. Sci. cxl, p. 480, and Bull. Mus. Monaco xxviii, p. 2 : *A. gibberosus*, p. 588, *bicuspidatus*, p. 589, Malay Seas ; DE MAN, Tijdschr. Nederland. Dierk. Ver. (2) ix : n. spp.
- Ibacus alticrenatus* var. *septemdentatus* n. var., p. 322, pl. xi, fig. 2 ; GRANT, P. Linn. Soc. N. S. Wales 1905 (2).
- Palinurus* sp., physiology of heart, p. 151 ; CARLSON, Biol. Bull. viii : *P. vulgaris*, number of eggs ; OKELL, P. Liverp. biol. Soc. xix, pp. 16 & 17.
- Panulirus*, notes on spp. ; BOUVIER, Bull. Mus. Monaco xxix.
- Puer atlanticus*, Cape Verde Ids. ; BOUVIER, C.R. Ac. Sci. cxl, p. 479, and Bull. Mus. Monaco xxviii, p. 2, n. sp.
- Scyllarus paulsoni* n. nom. for *S. gundlachi* Paulson, nec v. Martens, p. 395 ; NOBILI, Bull. Mus. Paris xi (1905).
- S. sordidus*, Persian Gulf, p. 160, *pumilus*, Red Sea, p. 395 ; NOBILI, Bull. Mus. Paris xi (1905) : n. spp.

THALASSINIDEA.

[See also †WEGNER (321).]

- Anophthalmaxius* n. g. (*Axiidae*), p. 593, *eccoptodactylus*, Malay Seas, p. 594 ; DE MAN, Tijdschr. Nederland. Dierk. Ver. (2) ix, n. sp.
- Axiopsis picteti* var. *spinimana* n. var., Malay Seas, p. 597 ; DE MAN, t. c.
- A. longipes*, Barbadoes, p. 804 ; BOUVIER, C.R. Ac. Sci. cxli : *A. consobrina*, p. 595, *tenuicornis*, p. 596, (*Paraxiopsis*) *bisquamosa*, p. 597, Malay Seas ; DE MAN, Tijdschr. Nederland. Dierk. Ver. (2) ix : n. spp.

- Axius* (*Neaxius* ?) *euryrhynchus*, p. 590, (*Neaxius* ?) *odontorhynchus*, p. 591, Malay Seas ; DE MAN, t. c. n. spp.
- Culastacus longispinis*, p. 239 ; MACGILCHRIST, Ann. Nat. Hist. (7) xv.
- C. euophthalmus*, Malay Seas, p. 598 ; DE MAN, Tijdschr. Nederland. Dierk. Ver. (2) ix, n. sp.
- Callianassa filholi*, p. 416 ; DE MAN, Bull. Mus. Paris xi (1905).
- C.* (*Calliactites*) *modesta*, p. 604, (*Cheramus*) *indica*, p. 605, (*Cheramus*) *moluccensis*, p. 606, *lobetobensis*, p. 607, *prædatrix*, p. 607, *propinqua*, p. 609, *intermedia*, p. 609, *joculatrix*, p. 610, *pugnatrix*, p. 611, *placida*, p. 612, *sibogæ*, p. 613, Malay Seas ; DE MAN, Tijdschr. Nederland. Dierk. Ver. (2) ix : *C.* (*Trypæa*) *gravieri*, Red Sea, p. 395 ; NOBILI, Bull. Mus. Paris xi (1905) : n. spp.
- †*C. seefriedi*, Tertiary, Nigeria, p. 470, fig. 16 ; AMMON, Mt. Geogr. Ges. Munchen i, n. sp.
- Calocaris aberrans*, Sta. Lucia, p. 805 ; BOUVIER, C.R. Ac. Sci. cxli, n. sp.
- Eiconaxius crista-galli* var. *antillensis* n. var., p. 803 ; BOUVIER, t. c.
- Eiconaxius borradailei*, *rotundifrons*, *communis*, *agassizi*, W. Indies and Gulf of Mexico, p. 803 ; BOUVIER, t. c. n. spp.
- Iconaxiopsis laccadivensis*, pl. lxxi, fig. 3 ; ALCOCK & MACGILCHRIST, Illustr. Zool. Investigator.
- I. spinigera*, Bay of Bengal, p. 240 ; MACGILCHRIST, Ann. Nat. Hist. (7) xv, n. sp.
- Jaxea nocturna*, larvæ in Irish Sea ; A. SCOTT, P. Liverp. biol. Soc. xix, p. 214.
- Metaxius* n. g. (*Axiidæ*) *microps*, Santa Cruz, p. 804 ; BOUVIER, C.R. Ac. Sci. cxli, n. sp.
- Meticonaxius* n. g. (*Axiidæ*), p. 592, *monodon*, Malay Seas, p. 593 ; DE MAN, Tijdschr. Nederland. Dierk. Ver. (2) ix, n. sp.
- Paraxiopsis* n. subg. of *Axiopsis* (q.v.), p. 597 ; DE MAN, t. c.
- Scytoleptus serripes*, p. 379 ; LENZ, Abh. Senckenb. Ges. xxvii.
- Upogebia intermedia*, p. 91 ; PEARSON, Rep. Ceylon Pearl Fisheries iv.
- U.* (*Gebiopsis*) *ancylodactyla*, p. 599, (*Upogebia*) *pugnax*, p. 600, *fallax*, p. 601, *ceratophora*, p. 602, *monoceros*, p. 603, Malay Seas ; DE MAN, Tijdschr. Nederland. Dierk. Ver. (2) ix, n. spp.

CARIDEA.

[See also KALISHEVSKAGHO (155), KEEBLE & GAMBLE (157-159).]

- Acanthephyra purpurea*, p. 10, fig. 4, var. *multispina* n. var., p. 10 ; COUTIÈRE, Bull. Mus. Monaco xlvi : *A. purpurea*, p. 254, pl. iv, figg. 12-15, pl. v, fig. 1, *rectirostris*, p. 260, pl. v, figg. 1-17 ; RIGGIO, Natural. Sicil. xvii.
- A. parva* var. *paucidens* and var. *multidens* n. varr., N. Atlantic, p. 15, fig. 5 ; COUTIÈRE, Bull. Mus. Monaco xlvi : *A. batei*, Cape of Good Hope, p. 107, pl. xxiv B ; STEBBING, S. African Crust. iii : n. spp.
- Ægeon cataphractus*, p. 89 ; PEARSON, Rep. Ceylon Pearl Fisheries iv.
- Alpheopsis equalis*, p. 868, text-fig. 138, var. *truncatus* n. var., p. 868, text-fig. 139 ; COUTIÈRE, Fauna Maldive ii (4).
- Alpheus gracilis* var. *alluaudi* n. var., p. 882, *paragracilis*, p. 883, pl. lxxvi, fig. 22, *microstylus*, p. 884, pl. lxxvi, fig. 23, *paracrinitus* var. *bengalensis* n. var., p. 901, pl. lxxxii, fig. 37, *miersi*, p. 903, pls. lxxxiii & lxxxiv, fig. 42, *rapax*, p. 905, *bouvieri*, p. 907, pl. lxxxv, fig. 44, var. *hululensis*, p. 908, pl. lxxxv, fig. 46, *bastardi*, p. 907, pl. lxxxv, fig. 45, *pacificus*, p. 909, pls. lxxxv & lxxxvi, fig. 47, *bisincisus* var. *malensis* n. var., p. 910, pl. lxxxvi, fig. 48, var. *stylirostris* n. var., p. 911, pl. lxxxvi, fig. 49, *audouini* n. nom., p. 911, pl. lxxxvii, fig. 52, *strenuus*, p. 913, pl. lxxxvii, fig. 53, var. *angulatus* n. var., p. 914 ; COUTIÈRE,

- Fauna Maldive ii (4): *A. idiocheles*, *phrygianus*, *paraculeipes*, p. 84, *spongiarum*, *paralcyone*, *miersi*, p. 85, *pareucheirus*, *bis-incisus* var. *malensis*, and var. *stylirostris*, p. 86, *audouini*, *macrodactylus*, *lævis*, p. 87; PEARSON, Rep. Ceylon Pearl Fisheries iv: *A. dentipes*, regeneration, p. 85; ZELENY, J. exp. Zool. ii.
- A. paraculeipes* (name only), Maldives, p. 738; COUTIÈRE, C.R. Ac. Sci. cxl: *A. hailstonei*, p. 879, pl. lxxiv, fig. 18, *paradentipes*, p. 880, pl. lxxiv, fig. 17, *seurati*, p. 881, pl. lxxv, fig. 20, sp.?, p. 882, pl. lxxiv, fig. 19, *idiocheles*, p. 883, pl. lxxv, fig. 21, *lutini*, p. 885, pl. lxxvi, fig. 24, *phrygianus*, p. 886, pl. lxxvii, fig. 25, *danæ*, p. 887, pl. lxxvii, fig. 26, *ovaliceps*, p. 888, pl. lxxvii, fig. 27, *styliceps*, p. 889, pl. lxxviii, fig. 28, *bucephalus*, p. 890, pl. lxxviii, fig. 29, *bradypus*, p. 891, pls. lxxviii & lxxix, fig. 30, *aculeipes*, p. 892, pl. lxxix, fig. 31, *paraculeipes*, p. 894, pls. lxxix & lxxx, fig. 32, *paralcyone*, p. 895, pls. lxxx & lxxxi, fig. 34, *superciliaris*, p. 896, pl. lxxxi, fig. 35, *clypeatus*, p. 897, pls. lxxxi & lxxxii, fig. 36, *lanceloti*, p. 900, pl. lxxxiii, fig. 39, *alpheopsides*, p. 901, pl. lxxxiii, fig. 40, *paralpheopsides*, p. 902, pl. lxxxiii, fig. 41, *pareuchirus*, p. 906, pl. lxxxiv, fig. 43, *leptochirus*, p. 914, pl. lxxxvii, fig. 54, Maldive Ids.; COUTIÈRE, Fauna Maldive ii (4): *A. bucephaloides* and *persicus*, Persian Gulf, p. 238; NOBILI, Bull. Mus. Paris xi (1905): **n. spp.**
- Arete dorsalis*, p. 866, text-figg. 136 & 137; COUTIÈRE, Fauna Maldive ii (4).
- A. borradailei* (name only), Maldives, p. 737; COUTIÈRE, C.R. Ac. Sci. cxl: *A. borradailei*, p. 861, text-fig. 133, *indicus*, p. 863, text-figg. 134 & 135, Maldive Ids., *maruteensis*, Rikitea, p. 864; COUTIÈRE, Fauna Maldive ii (4): **n. spp.**
- Athanas djiboutensis*, p. 856, text-fig. 129, *dimorphus*, p. 858, text-fig. 130d; COUTIÈRE, t. c.: *A. nitescens*, p. 88; PEARSON, Rep. Ceylon Pearl Fisheries iv.
- A. naifaroensis* and *areteformis* (names only), Maldives, p. 737; COUTIÈRE, C.R. Ac. Sci. cxl: *A. minikoensis*, p. 858, text-fig. 130, *naifaroensis*, p. 859, text-fig. 131, *areteformis*, p. 860, text-fig. 132, Maldive Ids.; COUTIÈRE, Fauna Maldive ii (4): *A. orientalis*, Gulf of Manaar, p. 88, pl. ii, fig. 10; PEARSON, Rep. Ceylon Pearl Fisheries iv: **n. spp.**
- Atyaephyra desmarestii*, in Tunis; CHAIGNON, Bull. Soc. Autun xvii, p. 80.
- Atyidæ*, revision of family, with keys to all spp., discussion of "mutations"; BOUVIER, Bull. Sci. France Belgique xxxix, pp. 57-134, 26 text-figg.
- Automate gardineri*, Maldives; COUTIÈRE, C.R. Ac. Sci. cxl, p. 737 (name only), and Fauna Maldive ii (4), p. 854, text-figg. 127 & 128, **n. sp.**
- Bithynis* [= *Palæmon*] *savignyi*, p. 78; PEARSON, Rep. Ceylon Pearl Fisheries iv.
- Brachycarpus*, note on g., p. 4, *biunguiculatus*, synonymy, p. 2; NOBILI, Boll. Mus. Torino xx, No. 502.
- B. advena*, Red Sea, p. 395; NOBILI, Bull. Mus. Paris xi (1905), **n. sp.**
- Caricyphus*, larvæ of *Hippolytidæ* like *Tozeuma*; COUTIÈRE, C.R. Ac. Sci. cxli, pp. 267-269.
- C. acutus* and *bigibbosus* (names only), p. 1114; COUTIÈRE, op. cit. cxl: *C. acutus*, p. 21, fig. 7, *bigibbosus*, p. 26, fig. 8, N. Atlantic; COUTIÈRE, Bull. Mus. Monaco xlvi: **n. spp.**
- Caridina typus*, p. 385, *wyckii*, p. 385; LENZ, Abh. Senckenb. Ges. xxvii: *C. weberi* var. *papuana* **n. var.**, p. 481, pl. xii, fig. i; NOBILI, Ann. Mus. Hungar. iii: *Caradina* [*Caridina*] *vitiensis*, p. 76, pl. i, fig. 4; PEARSON, Rep. Ceylon Pearl Fisheries iv.
- C. angulata*, Madagascar, p. 75, p. 84, text-fig. 8; BOUVIER, Bull. Sci. France Belgique xxxix: *C. hova*, Madagascar, p. 1, fig.; NOBILI, Boll. Mus. Torino xx, No. 499: **n. spp.**

- Chlorotocus crassicornis* ; SENNA, Annuar. Mus. Univ. Napoli i (18), 3 pp., 1 text-fig.
- Conchodytes meleagrinea*, p. 77 ; PEARSON, Rep. Ceylon Pearl Fisheries iv.
- Copiocaris* n. g. (larva), *messinensis*, p. 454, pl. xv, figg. 17-30 ; THIELE, Zool. Jahrb. Suppl. viii, n. sp.
- Coralliocaris graminea*, p. 381 ; LENZ, Abh. Senckenb. Ges. xxvii.
- Glyphocrangon longirostris* (?), p. 238 ; MACGILCHRIST, Ann. Nat. Hist. (7) xv.
- Harpilius latirostris*, Zanzibar, p. 380, pl. xlvii, figg. 14-14b ; LENZ, Abh. Senckenb. Ges. xxvii : *H. gerlachei*, Persian Gulf, p. 160 ; NOBILI, Bull. Mus. Paris xi (1905) : n. spp.
- Heterocarpus longirostris*, Bay of Bengal, p. 237 ; MACGILCHRIST, Ann. Nat. Hist. (7) xv : *H. longirostris*, pl. lxxi, figg. 2 & 2a ; ALCOCK & MACGILCHRIST, Illustr. Zool. Investigator, n. sp.
- Hippolyte paschalis*, p. 382 ; LENZ, Abh. Senckenb. Ges. xxvii.
- Hoplophoridae*, morphology and affinities ; COUTIÈRE, C.R. Ac. Sci. cxli, pp. 219-222.
- Hoplophorus* [see *Hoplophorus*] *grimaldii*, N. Atlantic, p. 1, fig. 1 : COUTIÈRE, Bull. Mus. Monaco xlviii, n. sp.
- Hymenodora parva*, E. Atlantic, p. 114 ; COUTIÈRE, C.R. Ac. Sci. cxl, n. sp.
- Latreutes mucronatus* var. *multidens* n. var., p. 394 ; NOBILI, Bull. Mus. Paris xi (1905).
- L. paronae*, Zanzibar, p. 2, fig. ; NOBILI, Boll. Mus. Torino xx, No. 506 : *L. phycologus*, Arabian coast, p. 159, text-fig. ; NOBILI, Bull. Mus. Paris xi (1905) : *L. ceylonensis*, Gulf of Manaar, p. 81, pl. ii, fig. 7 ; PEARSON, Rep. Ceylon Pearl Fisheries iv : n. spp.
- Leander dionyx*, New Guinea, p. 482, pl. xii, fig. 2 ; NOBILI, Ann. Mus. Hungar. n. sp.
- Leontocaris* n. g. (*Hippolytidae*), p. 98, *paulsoni*, Cape of Good Hope, p. 99, pl. xxvi ; STEBBING, S. African Crust. iii, n. sp.
- Ligur edwardsi*, p. 97 ; RIGGIO, Natural. Sicil. xviii (5).
- Lysmata seticaudata*, in Atlantic ; PÉREZ, Pr.-verb. Soc. Linn. Bordeaux lx (2), p. xl.
- Merhippolyte agulhasensis*, p. 103 ; STEBBING, S. African Crust. iii.
- Nauticaris unirecedens*, p. 81, *futilirostris*, p. 81, pl. ii, fig. 8 ; PEARSON, Rep. Ceylon Pearl Fisheries iv.
- N. grandirostris*, Ceylon, p. 79, pl. i, fig. 6 ; PEARSON, t. c. n. sp.
- Notostomus westergreni*, p. 110 ; STEBBING, S. African Crust. iii.
- Oplophorus* [see *Hoplophorus*] *grimaldii*, E. Atlantic, p. 1114 ; COUTIÈRE, C.R. Ac. Sci. cxl, n. sp.
- Palæmon* [see also *Bithynis*] (*Eupalæmon*) *neglectus* n. nom. for *P. acutirostris* and *P. equidens* de Man non Dana, p. 201, pl. xv, fig. 6, *lar*, p. 202, pl. xv, fig. 5, var. *reunionnensis*, p. 204, pl. xv, figg. 1-4 ; DE MAN, Notes Leyden Mus. xxvi.
- Pandalidae*, cuticular scales ; COUTIÈRE, C.R. Ac. Sci. cxl, pp. 674-676.
- Pandalus martius*, p. 277, pl. ii, figg. 8-11 ; *heterocarpus*, p. 280 ; RIGGIO, Natural. Sicil. xvii.
- P. (Stylopandalus) richardi*, E. Atlantic ; COUTIÈRE, C.R. Ac. Sci. cxl, p. 1115, and Bull. Mus. Monaco xlviii, p. 18, fig. 6, n. sp.
- Paschocaris* n. g. (*Hippolytidae*), type *H. paschalis* Heller, p. 394 ; NOBILI, Bull. Mus. Paris xi (1905).
- Pasiphæa sivado*, p. 240 ; RIGGIO, Natural. Sicil. xvii : *P. sivado*, p. 467, pl. xvi, figg. 50 & 51 ; THIELE, Zool. Jahrb. Suppl. viii.
- Periclimenes* sp., p. 34 ; COUTIÈRE, Bull. Mus. Monaco xlviii.
- P. borradailei*, Persian Gulf, *potina*, Arabian coast, p. 159 ; NOBILI, Bull. Mus. Paris xi (1905), n. spp.
- Pontophilus gracilis*, p. 94, pl. xxv ; STEBBING, S. African Crust. iii.

- Processa canaliculata*, p. 91 ; STEBBING, t. c.
Stylopandalus n. subg. of *Pandalus* (q.v.), p. 1115 ; COUTIÈRE, C.R. Ac. Sci. cxl.
Synalpheus neomeris, p. 869, pl. lxx, fig. 1, var. *streptodactylus* n. var., p. 870, pl. lxx, fig. 1, *fossor*, p. 872, pl. lxx, fig. 6, *biunguiculatus*, p. 873, pl. lxxi, fig. 8, var. *pachymeris* n. var., p. 873, pl. lxxi, fig. 9, var. *exilipes* n. var., p. 874, pl. lxxi, fig. 10, *tumido-manus*, p. 876, pl. lxxiii, fig. 14, *stimpsoni* var. *maldivensis* n. var., p. 878, pl. lxxiii, fig. 16 ; COUTIÈRE, Fauna Maldive ii (4) : *S. gravieri*, p. 82, *laticeps* p. 82, *biunguiculatus*, p. 83, *carinatus*, p. 83, pl. ii, fig. 9, *comatularum*, p. 83 ; PEARSON, Rep. Ceylon Pearl Fisheries iv.
S. gravieri, p. 870, pl. lxx, fig. 2, *nilandensis*, p. 871, pl. lxx, fig. 4, var. *oxyceros* n. var., p. 871, pl. lxx, fig. 5, *paraneomeris*, p. 872, pl. lxxi, fig. 7, *laticeps*, p. 874, pl. lxxii, fig. 11, *hastilicrassus*, p. 875, pl. lxxii, fig. 12, *acanthitelsonis*, p. 875, pl. lxxii, fig. 13, *pescadorensis*, p. 877, pl. lxxiii, fig. 15, Maldive Ids. ; COUTIÈRE, Fauna Maldive ii (4), n. spp.
Systellaspis debilis, p. 5, fig. 2 ; COUTIÈRE, Bull. Mus. Monaco xviii.
S. bouvieri, N. Atlantic, p. 8, fig. 3 ; COUTIÈRE, t. c. n. sp.
Urocaris longicaudata, p. 78, pl. i, fig. 5 ; PEARSON, Rep. Ceylon Pearl Fisheries iv.

STENOPIDEA.

- Richardina inermis*, Santa Lucia, p. 749 ; BOUVIER, C.R. Ac. Sci. cxli, n. sp.
Spongicola evoluta, off coast of Sahara, p. 983 ; BOUVIER, op. cit. cxl, n. sp.

PENÆIDEA.

- Acetes japonicus*, Japan, p. 162, 2 text-figg. ; KISHINOUE, Annot. zool. Japon. v (4) : *A. erythræus*, Red Sea, p. 393, text-fig. 1 ; NOBILI, Bull. Mus. Paris xi (1905) : n. spp.
Amalopenæus elegans, p. 459, pl. xv, figg. 31-33 ; THIELE, Zool. Jahrb. Suppl. viii.
Archipenæopsis n. g. (near *Penæopsis*), *vestitus*, Antilles, p. 747 ; BOUVIER, C.R. Ac. Sci. cxli, n. sp.
Artemesia talismani, off Morocco, p. 982 ; BOUVIER, op. cit. cxl, n. sp.
Atypopenæus n. g. (in "maniple" *Peneus*), type *compressipes* Henderson, p. 524 ; ALCOCK, Ann. Nat. Hist. (7) xvi.
Benthesicymus armatus, Arabian Sea, p. 235 ; MACGILCHRIST, Ann. Nat. Hist. (7) xv, n. sp.
Faxonia n. g. (or subg. ?), type *ocularis* A. M. Edw., p. 981 ; BOUVIER, C.R. Ac. Sci. cxl.
Gennadas carinatus (?), p. 236 ; MACGILCHRIST, Ann. Nat. Hist. (7) xv.
G. brevirostris, Santa Lucia, p. 748 ; BOUVIER, C.R. Ac. Sci. cxli, n. sp.
Grimaldiella n. g. (*Penæinæ*) *richardi*, E. Atlantic, p. 982 ; BOUVIER, op. cit. cxl, n. sp.
Hemipenæopsis n. subg. of *Penæus*, *villosus*, E. Atlantic, p. 981 ; BOUVIER, t. c. n. sp.
Leucifer typus, p. 76 ; PEARSON, Rep. Ceylon Pearl Fisheries iv.
Lucifer hansenii, Red Sea, p. 394 ; NOBILI, Bull. Mus. Paris xi (1905), n. sp.
Metapenæopsis n. subg. of *Penæus*, *pubescens*, E. Atlantic, p. 981 ; BOUVIER, C.R. Ac. Sci. cxl, n. sp.
Metapenæus stridulans, Indian Seas, p. 526 ; ALCOCK, Ann. Nat. Hist. (7) xvi : *Metapenæus perlaram*, Persian Gulf, p. 158 ; NOBILI, Bull. Mus. Paris xi (1905) : n. spp.

- Neopenaeopsis* n. g. (near *Penaeopsis*), *paradoxus*, Antilles, p. 747; BOUVIER, C.R. Ac. Sci. cxli, n. sp.
- Parapeneopsis maxillipedo*, p. 527, *uncta*, p. 528, *nana*, p. 529, *acclivirostris*, p. 530, Indian Seas, *hungerfordi*, p. 530, Hong-Kong; ALCOCK, Ann. Nat. Hist. (7) xvi: *Parapeneopsis rathbuni*, Antilles, p. 748; BOUVIER, C.R. Ac. Sci. cxli: n. spp.
- Parapeneus mogiensis*, p. 71, pl. i, fig. 2; PEARSON, Rep. Ceylon Pearl Fisheries iv.
- Parapeneus longipes*, Indian Seas, p. 525; ALCOCK, Ann. Nat. Hist. (7) xvi: *Parapeneus gallensis*, Ceylon, p. 72, pl. i, fig. 3; PEARSON, Rep. Ceylon Pearl Fisheries iv: n. spp.
- Parartemesia* n. g. (near *Artemesia*), p. 747, *carinata*, Montevideo, p. 748, *tropicalis*, Antilles, p. 748; BOUVIER, C.R. Ac. Sci. cxli, n. spp.
- Penaeopsis agassizi*, Sombrero, p. 748; BOUVIER, t. c. n. sp.
- Peneus*, defined as a "maniple" (a supra-generic group) with revision of included genera and lists of species, p. 510; ALCOCK, Ann. Nat. Hist. (7) xvi: see also *Hemipeneopsis*, *Metapeneopsis*.
- Peneus indicus* var. *penicillatus* n. var., p. 525; ALCOCK, Ann. Nat. Hist. (7) xvi: *P. fissurus*, p. 233; MACGILCHRIST, Ann. Nat. Hist. (7) xv: *Penaeus indicus*, p. 69, pl. i, fig. 1; PEARSON, Rep. Ceylon Pearl Fisheries iv: *P. monodon*, p. 74; STEBBING, S. African Crust. iii: *P. semisulcatus*, fishery, W. Australia; WHITELEGGE, Rec. Austral. Mus. vi (2), pp. 119 & 120.
- P. caeruleus*, Nahoon River, Cape of Good Hope, p. 77, pls. xxi & xxi bis; STEBBING, S. African Crust. iii, n. sp.
- Philonicus pectinatus*, p. 73; PEARSON, Rep. Ceylon Pearl Fisheries iv.
- Sergestes arachnipodus*, p. 183, pl. iv, figg. 1-7, *robustus*, p. 215, pl. ii, figg. 8-12; RIGGIO, Natural. Sicil. xvii: *S. arcticus*, p. 81, *bisulcatus*, p. 87, pl. xxiva; STEBBING, S. African Crust. iii: *S. arcticus*, p. 462, pl. xv, figg. 34 & 35, pl. xvi, figg. 36 & 37, *dissimilis*, p. 463, pl. xvi, figg. 38-40, *corniculum*, p. 464, pl. xvi, figg. 41, 42, 62, 63, *clausi*, p. 465, pl. xvi, figg. 43-47, sp., p. 466, pl. xvi, figg. 48 & 49; THIELE, Zool. Jahrb. Suppl. viii.
- S. gloriosus*, Cape of Good Hope, p. 84, pls. xxii & xxiii; STEBBING, S. African Crust. iii, n. sp.
- Sicyonia lancifer*, p. 74, *cristata* (?), p. 75; PEARSON, Rep. Ceylon Pearl Fisheries iv.
- S. stimpsoni*, Antilles, p. 748; BOUVIER, C.R. Ac. Sci. cxli, n. sp.
- Trachypeneus asper*, Indian Seas, p. 531; ALCOCK, Ann. Nat. Hist. (7) xvi, n. sp.

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- † *Anthropalæmon woodwardi*, p. 439, text-fig. 2, *traquairii* (?), p. 440; WOODWARD, Geol. Mag. (5) ii.
- † *A. serratus*, Lower Coal Measures, Lancashire, p. 438, text-fig. 1; WOODWARD, t. c. n. sp.

2. SCHIZOPODA.

[See also FRIEDRICH (107), PAULMIER (220), SCOTT (266), ZIMMER (349).]

- Schizopoda* from Hawaiian Ids., notes on distrib. and char. of spp.; ORTMANN, Bull. U. S. Fish Comm. for 1903, Pt. iii.
- Schizopoda*, notes on spp. from "Oceana" Exp.; HOLT & TATTERSALL, Ann. Nat. Hist. (7) xvi, pp. 1-10.
- Schizopoda* of plankton in Bay of Biscay; HOLT & TATTERSALL, Tr. Linn. Soc. (2) Zool. x, pp. 103-129.
- Schizopoda*, morphology; COUTIÈRE, C.R. Ac. Sci. cxli, pp. 127-130.

- Arachnomysinae* n. subfam. of *Mysidae*, p. 128; HOLT & TATTERSALL, Rep. Fish. Ireland 1902-03, Pt. ii.
- Arachnomysis leuckartii*, ♀, p. 445, pl. xiv, figg. 1-6; THIELE, Zool. Jahrb. Suppl. viii.
- Bentheuphausia* sp., p. 112; HOLT & TATTERSALL, Rep. Fish. Ireland 1902-03, Pt. ii.
- Boreomysinae* n. subfam. of *Mysidae*, p. 130; HOLT & TATTERSALL, t. c.
- Boreomysis arctica*, p. 130, *microps*, p. 130; HOLT & TATTERSALL, t. c.
- B. subpellucida*, p. 8, figg. 5-8, *semicæca*, p. 9, figg. 9-11, N. Atlantic; HANSEN, Bull. Mus. Monaco xxx, n. spp.
- Cæsaromysis hispida*, p. 115; STEBBING, S. African Crust. iii.
- Chunomysis* n. g. (*Mysidae*) *diadema*, N.E. Atlantic, p. 128, pl. xix, figg. 1-4, pl. xxv, figg. 1-7; HOLT & TATTERSALL, Rep. Fish. Ireland 1902-03, Pt. ii, n. sp.
- Dactylerythrops* n. g. (*Mysidae*) *dactylops*, N.E. Atlantic, p. 121, pl. xxii; HOLT & TATTERSALL, t. c. n. sp.
- Echinomysis* n. g. (*Mysidae*) *chuni*, Antarctic and Indian Ocean, p. 151, 2 text-figg.; ILLIG, Zool. Anz. xxix, n. sp.
- Euchætomera fowleri*, N.E. Atlantic, p. 123, pl. xxiv, figg. 1-3; HOLT & TATTERSALL, Rep. Fish. Ireland, 1902-03, Pt. ii: *E. fowleri*, p. 104, text-fig.; HOLT & TATTERSALL, Tr. Linn. Soc. (2) Zool. x, n. sp.
- Eucopia* sp., sense-organ; DOHRN, Zool. Anz. xxix, pp. 347-352, 4 text-figg.: *E. australis*, p. 5, fig. 1, *sculpticauda*, p. 7, fig. 4; HANSEN, Bull. Mus. Monaco xxx: *E. unguiculata*, p. 3, *australis*, p. 6; HANSEN, op. cit. xlii.
- E. intermedia*, N. Atlantic, p. 5, figg. 2 & 3; HANSEN, op. cit. xxx, n. sp.
- Euphausia*, notes on spp., p. 7, key to some spp., p. 10, *mülleri*, p. 11, *diomedææ*, p. 16, *gibba*, p. 17; HANSEN, Bull. Mus. Monaco xlii: *E. latifrons*, p. 112; STEBBING, S. African Crust. iii.
- E. recurva*, p. 13, *mutica*, p. 14, *brevis*, p. 15, N. Atlantic; HANSEN, Bull. Mus. Monaco xlii: *E. lanei*, N.E. Atlantic, p. 102, pl. xxiv, figg. 6-9; HOLT & TATTERSALL, Rep. Fish. Ireland 1902-03, Pt. ii: n. spp.
- Euphausiidae*, notes on spp., p. 452; THIELE, Zool. Jahrb. Suppl. viii.
- Euphausiinae* n. subfam. of *Euphausiidae*, p. 101; HOLT & TATTERSALL, Rep. Fish. Ireland 1902-03, Pt. ii.
- Gnathophausia calcarata*, luminous gland, p. 662, text-figg. 1 & 2; ILLIG, Zool. Anz. xxviii.
- G. drepanephora*, N.E. Atlantic, p. 113, pl. xviii; HOLT & TATTERSALL, Rep. Fish. Ireland 1902-03, Pt. ii: *G. drepanephora*, p. 9, pl. ii; HOLT & TATTERSALL, Ann. Nat. Hist. (7) xvi, n. sp.
- Hypererythrops* n. g. (*Mysidae*), p. 119, *serriventer*, N.E. Atlantic, p. 120, pl. xxiii & pl. xxiv, fig. 4; HOLT & TATTERSALL, Rep. Fish. Ireland 1902-03, Pt. ii, n. sp.
- Katerythrops* n. g. (*Mysidae*) *oceanæ*, N.E. Atlantic, p. 117, pl. xx; HOLT & TATTERSALL, t. c.: *K. oceanæ*, p. 7, pl. i; HOLT & TATTERSALL, Ann. Nat. Hist. (7) xvi, n. sp.
- Lophogaster typicus*, p. 449, pl. xiv, figg. 9-14; THIELE, Zool. Jahrb. Suppl. viii.
- Meganyctiphanes* n. g. (*Euphausiidae*), *norvegica*, p. 105, pl. xvi; HOLT & TATTERSALL, Rep. Fish. Ireland 1902-03, Pt. ii.
- Meterythrops picta*, N.E. Atlantic, p. 116, pl. xix, figg. 5-7, pl. xxv, figg. 8 & 9; HOLT & TATTERSALL, t. c. n. sp.
- Mysideis insignis*, p. 127, pl. xxiv, fig. 5; HOLT & TATTERSALL, t. c.
- M. (?) farrani*, N.E. Atlantic, p. 127; HOLT & TATTERSALL, t. c. n. sp.
- Mysis* spp., experiments on vibration of "auditory" setæ; MARAGE, C.R. Ac. Sci. cxli, p. 732.

- Nematobrachion* n. nom. for *Nematodactylus*, preocc., *boöpis*, p. 153, pl. xxvi; CALMAN, Rep. Fish. Ireland 1902-03, Pt. ii.
- Nematoscelinæ* n. subfam. of *Euphausiidae*, p. 107; HOLT & TATTERSALL, Rep. Fish. Ireland 1902-03, Pt. ii.
- Nematoscelis*, notes on spp., p. 27; HANSEN, Bull. Mus. Monaco xxx: *N. microps*, p. 28, *tenella*, p. 30; HANSEN, op. cit. xlii.
- Nyctiphanes couchii*, p. 104, pl. xvii; HOLT & TATTERSALL, Rep. Fish. Ireland 1902-03, Pt. ii: *N. australis*, p. 113; STEBBING, S. African Crust. iii.
- Paramblyops* n. g. (*Mysidae*), p. 124, *rostrata*, N.E. Atlantic, p. 125, pl. xxi; HOLT & TATTERSALL, Rep. Fish. Ireland 1902-03, Pt. ii, n. sp.
- Parerythropros obesa*, p. 122; HOLT & TATTERSALL, t. c.
- Pseudomma roseum*, p. 74; PATIENCE, Tr. Soc. Glasgow vii (1).
- P. calloplura*, p. 126, *kempi*, p. 126; HOLT & TATTERSALL, Rep. Fish. Ireland 1902-03, Pt. ii, n. spp.
- Siriella thompsonii*, p. 447, pl. xiv. figg. 7 & 8; THIELE, Zool. Jahrb. Suppl. viii.
- Stylocheiron*, notes on spp., p. 30; HANSEN, Bull. Mus. Monaco xxx: *S. longicorne*, p. 109, *chelifer*, p. 110; HOLT & TATTERSALL, Rep. Fish. Ireland 1902-03, Pt. ii.
- Thysanoëssa parva*, p. 27; HANSEN, Bull. Mus. Monaco xlii: *T. longicaudata*, p. 107, pl. xv, *gregaria*, p. 108; HOLT & TATTERSALL, Rep. Fish. Ireland 1902-03, Pt. ii.
- T. parva*, N. Atlantic, p. 25, figg. 22-24; HANSEN, Bull. Mus. Monaco xxx, n. sp.
- Thysanopoda*, key to spp. from Atlantic, p. 12, *pectinata*, p. 16, fig. 12; HANSEN, Bull. Mus. Monaco xxx: *T. vulgaris*, p. 20, *acutifrons*, p. 22, *distinguenda*, p. 24, *pectinata*, p. 25; HANSEN, op. cit. xlii: *T. obtusifrons*, p. 452, pl. xix, figg. 15 & 16; THIELE, Zool. Jahrb. Suppl. viii.
- T. vulgaris*, p. 15, *distinguenda*, p. 17, fig. 13, *lateralis*, p. 18, figg. 14-16, *insignis*, p. 19, figg. 17-19, *egregia*, p. 22, figg. 20 & 21, N. Atlantic; HANSEN, Bull. Mus. Monaco xxx: *T. æqualis*, p. 18, N. Atlantic; HANSEN, op. cit. xlii: *T. cornuta*, S. Atlantic, p. 663, text-figg. 1-3; ILLIG, Zool. Anz. xxviii: *T. acutifrons*, N.E. Atlantic, p. 102; HOLT & TATTERSALL, Rep. Fish. Ireland 1902-03, Pt. ii: n. spp.

3. STOMATOPODA.

[See also PAULMIER (220).]

Larvæ off W. of Ireland; TATTERSALL, Rep. Fish. Ireland 1902-1903, Pt. ii, App. vii (1905), pp. 211-213.

Larvæ from Irish Sea, p. 214, fig. 2; A. SCOTT, P. Liverp. biol. Soc. xix.

Gonodactylus, notes on spp., p. 386, *spinosus*, p. 387, pl. xlvii, fig. 12; LENZ, Abh. Senckenb. Ges. xxvii: *G. demani*, p. 11; NOBILI, Boll. Mus. Torino xx, No. 506: *G. styliferus*, p. 34, text-fig.; PORTER, Revist. chilena ix (1).

G. fimbriatus, Zanzibar, p. 388, pl. xlvii, fig. 11; LENZ, Abh. Senckenb. Ges. xxvii, n. sp.

Lysiosquilla digueti, Lower California, p. 174 & text-figg.; COUTIÈRE, Bull. Soc. Philom. vii (3), n. sp.

Protosquilla glabra, Zanzibar, p. 388, pl. xlvii, fig. 13; LENZ, Abh. Senckenb. Ges. xxvii, n. sp.

Squilla desmaresti, in North Sea, p. 218; VAN BREEMEN, Tijdschr. Nederland. Dierk. Ver. (2) ix.

4. CUMACEA.

[See also BRADY (36), PAULMIER (220), SCOTT (266).]

- Bathycuma*, p. 17, key to spp., p. 18, *brevirostris*, p. 18; CALMAN, Fisheries, Ireland, Sci. Invest. 1904, i.
- B. longirostris*, Malay Seas, p. 9, pl. ii, figg. 13 & 14; CALMAN, Cumacea Siboga, **n. sp.**
- Bodotria scorpioides*, synonymy, p. 13; CALMAN, Fisheries, Ireland, Sci. Invest. 1904, i: *B. sp.*, p. 5; CALMAN, Cumacea Siboga.
- Campylaspis*, notes on spp., p. 34; CALMAN, Fisheries, Ireland, Sci. Invest. 1904, i.
- C. rostrata*, W. of Ireland, p. 35, pl. ii, figg. 35-38; CALMAN, t. c. **n. sp.**
- Ceratocuma n. g. (Ceratocumidæ)*, p. 37, *horrida*, p. 37, pl. iv, figg. 57-75; CALMAN, t. c. **n. sp.**
- Ceratocumidæ n. fam.*, p. 37; CALMAN, t. c.
- Cumella gracillima*, W. of Ireland, p. 23, pl. i, figg. 5-14; CALMAN, t. c. **n. sp.**
- Cumellopsis n. g. (Nannastacidæ)*, p. 28, *helgæ*, p. 28, pl. ii, figg. 20-34; CALMAN, t. c. **n. sp.**
- Cyclaspis persculpta*, p. 3, pl. i, figg. 1-3, *siboga*, p. 4, pl. i, figg. 4-6, Malay Seas; CALMAN, Cumacea Siboga, **n. spp.**
- Cyclaspoides sarsi*, p. 15; CALMAN, Fisheries, Ireland, Sci. Invest. 1904, i: *C. sp.*, p. 6; CALMAN, Cumacea Siboga.
- Diastylis*, notes on spp., p. 45; CALMAN, Fisheries, Ireland, Sci. Invest. 1904, i.
- Diastylis tubulicauda*, W. of Ireland, p. 46, pl. v, figg. 82-86; CALMAN, t. c.: *D. cingulatus*, Malay Seas, p. 19, pl. ii, figg. 26-29; CALMAN, Cumacea Siboga: **n. spp.**
- Diastylopsis sp.*, p. 23; CALMAN, t. c.
- Hemilamprops*, notes on spp., p. 41; CALMAN, Fisheries, Ireland, Sci. Invest. 1904, i.
- Heterocuma weberi*, Malay Seas, p. 6, pl. i, figg. 7-12; CALMAN, Cumacea Siboga, **n. sp.**
- Iphinoë trispinosa*, p. 15, *serrata*, p. 16; CALMAN, Fisheries, Ireland, Sci. Invest. 1904, i.
- Leucon siphonatus*, W. of Ireland, p. 19, pl. i, figg. 2-4; CALMAN, t. c. **n. sp.**
- Nannastacidæ*, key to genera, p. 22; CALMAN, t. c.
- Nannastacus suhmii*, p. 12; CALMAN, Cumacea Siboga.
- N. brevicaudatus*, W. of Ireland, p. 26, pl. i, figg. 15-19; CALMAN, Fisheries, Ireland, Sci. Invest. 1904, i: *N. hanseni*, p. 11, text-fig. 1, *a-c*, *pardus*, p. 13, text-fig. 2, *a-c*, *brachydactylus*, p. 14, text-fig. 3, *a-e*, Malay Seas; CALMAN, Cumacea Siboga: **n. spp.**
- Paradiastylis longipes*, Malay Seas, p. 21, text-fig. 4, *a-i*; CALMAN, t. c. **n. sp.**
- Platyaspis*, key to spp., p. 42; CALMAN, Fisheries, Ireland, Sci. Invest. 1904, i.
- Platyaspis orbicularis*, W. of Ireland, p. 43, pl. v, figg. 77-81; CALMAN, t. c. **n. sp.**
- Platycuma n. g. (Nannastacidæ)*, p. 30, *holtii*, W. of Ireland, p. 30, pl. iii, figg. 39-56; CALMAN, t. c. **n. sp.**
- Pseudodiastylis n. g. (Diastylidæ) feròx*, Malay Seas, p. 16, pl. ii, figg. 15-25; CALMAN, Cumacea Siboga, **n. sp.**
- Vauntomponia*, p. 16, *cristata*, p. 17, pl. i, fig. 1; CALMAN, Fisheries, Ireland, Sci. Invest. 1904, i.

5. TANAIIDACEA.

[See also PAULMIER (220).]

Tanaidacea, revision of nomenclature of spp. described in Bate & Westwood's "British Sessile-eyed Crustacea"; NORMAN, Ann. Nat. Hist. (7) xvi, pp. 78-95.

Tanaidacea of North America, all spp. described and figured; RICHARDSON, Bull. U. S. Mus. liv.

Apseudes hibernicus, p. 38, pl. ix, figg. 4-7; TATTERSALL, Fisheries, Ireland, Sci. Invest. 1904, ii (1905).

Heterotanais anomalus, p. 336, pl. xxi, figg. 29-35; SMITH, Mt. Stat. Neapel xvii.

H. magnus, Naples, p. 336, pl. xxi, figg. 36-39; SMITH, t. c.: *H. crassicornis*, Gulf of Manaar, p. 4, pl. i, A; STEBBING, Rep. Ceylon Pearl Fisheries iv: n. spp.

Leptochelia dubia, p. 333, pl. xx, figg. 1-17; SMITH, Mt. Stat. Neapel xvii: *L. lifuensis*, p. 7, pl. i, c; STEBBING, Rep. Ceylon Pearl Fisheries iv.

L. mercantilis, p. 335, pl. xx, figg. 18-23, *mergellinae*, p. 336, pl. xx, figg. 24-28; SMITH, Mt. Stat. Neapel xvii: *L. mirabilis*, Gulf of Manaar, p. 6, pl. i, B; STEBBING, Rep. Ceylon Pearl Fisheries iv: n. spp.

Pancolus n. g. (*Tanaidæ*) *californiensis*, California, p. 367, text-figg. 1-10; RICHARDSON, P. U. S. Mus. xxviii, n. sp.

Tanais gracilis, p. 3, pl. i, D; STEBBING, Rep. Ceylon Pearl Fisheries iv.

T. normani, California, p. 369, text-figg. 11-13; RICHARDSON, P. U. S. Mus. xxviii, n. sp.

Tanaopsis laticaudata, p. 41, pl. ix, figg. 9 & 10; TATTERSALL, Fisheries, Ireland, Sci. Invest. 1904, ii (1905).

Typhlotanais proctagon, W. of Ireland, p. 601; TATTERSALL, Rep. Brit. Ass. lxxiv 1904 (1905): *T. proctagon*, p. 3, pl. i, figg. 1-9; TATTERSALL, Fisheries, Ireland, Sci. Invest. 1904, ii (1905): n. sp.

6. ISOPODA.

[See also BRADY (36), MEISSNER (181), PAULMIER (220), SCOTT (266) & (269), SCOURFIELD (274), SMITH (285), WOLTERSTORFF (340).]

Isopoda, revision of nomenclature of spp. described in Bate & Westwood's "British Sessile-eyed Crustacea"; NORMAN, Ann. Nat. Hist. (7) xvi, pp. 78-95.

ASELLOTA.

[See also HUBER (141), SNETHLAGE (289).]

Asellota of N. America, descr. and figg. of all spp. (only n. gg. and spp. noted below); RICHARDSON, Bull. U. S. Mus. liv.

Asellota, morphology and classification; HANSEN, P. Zool. Soc. London 1904, ii (2) (1905), pp. 302-331.

Eurycope longipes, W. of Ireland, p. 30, pl. x, figg. 1-8; TATTERSALL, Fisheries, Ireland, Sci. Invest. 1904, ii (1905), n. sp.

Iera marina, p. 51, pl. ix, fig. 11, *nordmanni*, p. 51, pl. ix, fig. 12; TATTERSALL, t. c.

Ilyarachna plunketti, W. of Ireland, p. 602; TATTERSALL, Rep. Brit. Ass. lxxiv, 1904 (1905): *I. plunketti*, p. 28, pl. vii, figg. 1-9; TATTERSALL, Fisheries, Ireland, Sci. Invest. 1904, ii (1905): n. spp.

Iolella n. nom. for *Tole* Ortman (misprint for *Iole*, preocc.), p. 457; RICHARDSON, Bull. U. S. Mus. liv.

- I. sarsi*, Alaska, p. 467, text-fig. 523 ; RICHARDSON, t. c. : *I. alascensis*, N. Pacific, p. 464, text-fig. 519 ; BENEDICT in RICHARDSON, t. c. : **n. spp.**
- Ischnosoma greenii*, W. of Ireland, p. 602 ; TATTERSALL, Rep. Brit. Ass. lxxiv, 1904 (1905) : *I. greenii*, p. 20, figg. 1-6 ; TATTERSALL, Fisheries, Ireland, Sci. Invest. 1904, ii (1905), **n. sp.**
- Jæropsis curvicornis*, p. 51, pl. xi, c ; STEBBING, Rep. Ceylon Pearl Fisheries iv.
- Janira* (?) *nana*, Gulf of Manaar, p. 50, pl. iii, c ; STEBBING, t. c. **n. sp.**
- Lipomera* **n. g.** (*Lipomeridæ*) *lamellata*, W. of Ireland, p. 602 ; TATTERSALL, Rep. Brit. Ass. lxxiv, 1904 (1905) : *L. lamellata*, p. 33, pl. viii, figg. 1-14 ; TATTERSALL, Fisheries, Ireland, Sci. Invest. 1904, ii (1905) : **n. sp.**
- Lipomeridæ* **n. fam.** near *Munnopsidæ*, p. 602 ; TATTERSALL, Rep. Brit. Ass. lxxiv, 1904 (1905).
- Metamunna* **n. g.** (near *Pleurogonium*) *typica*, W. of Ireland, p. 602 ; TATTERSALL, t. c. : *M. typica*, p. 18, pl. ix, figg. 1-3 ; TATTERSALL, Fisheries Ireland Sci. Invest. 1904, ii (1905) : **n. sp.**
- Munna caeca*, S. California, p. 483, text-figg. 541-543 ; RICHARDSON, Bull. U. S. Mus. liv : *M. schauinslandi*, Chatham Ids., p. 372, pl. xiv, figg. 1-12 ; SARS, Zool. Jahrb. Syst. xxi : **n. spp.**
- Munnopsis murrayi*, p. 73, pl. v, fig. 8 ; TATTERSALL, Fisheries, Ireland, Sci. Invest. 1904, ii (1905).
- M. oceanica*, W. of Ireland, p. 23, pl. v, figg. 1-7 ; TATTERSALL, t. c. **n. sp.**
- Munnopsoides* **n. g.** (near *Munnopsis*) *beddardi*, W. of Ireland, p. 602 ; TATTERSALL, Rep. Brit. Ass. lxxiv, 1904 (1905) : *M. beddardi*, p. 26, pl. vi, figg. 1-8 ; TATTERSALL, Fisheries, Ireland, Sci. Invest. 1904, ii (1905) : **n. sp.**
- Parasellidæ* **n. fam.**, p. 315 ; HANSEN, P. Zool. Soc. London 1904, ii (1905).
- Stenetriidæ* **n. fam.**, p. 315 ; HANSEN, t. c.
- Stenetrium*, p. 303, key to spp., p. 316, *armatum*, p. 318, pl. xix, figg. 1a-d, *fractum*, p. 319, *haswelli*, p. 321, *stebbingii*, p. 325, *inermis*, p. 329 ; HANSEN, P. Zool. Soc. London 1904, ii (2) (1905).
- S. mediterraneum*, Sicily, p. 320, pl. xix, figg. 2a-h, *serratum*, West Indies, p. 323, pl. xix, figg. 3a-d, pl. xx, fig. 1a, *occidentale*, West Indies, p. 324, pl. xx, figg. 2a-n, *antillense*, West Indies, p. 326, pl. xx, figg. 3a-i, pl. xxi, figg. 1a-e, *siamense*, Siam, p. 327, pl. xxi, figg. 2a-i ; HANSEN, P. Zool. Soc. London 1904, ii (2) (1905) : *S.*, key to spp., p. 54, *chiltoni*, Gulf of Manaar, p. 54, pl. xii, A ; STEBBING, Rep. Ceylon Pearl Fisheries iv : **n. spp.**
- Tole* [see also *Iolella*] *holmesi*, Alaska, p. 216, text-fig. 5 ; RICHARDSON, Bull. Bureau Fisheries xxiv, **n. sp.**

PHREATOICOIDEA.

[See CHILTON (70).]

FLABELLIFERA.

[See also †REMEŠ (242).]

- Flabellifera* of N. America, descr. and figg. of all spp. (only n. gg. and spp. noted below) ; RICHARDSON, Bull. U. S. Mus. liv.
- Æga symmetrica*, Alaska, p. 209, text-fig. 1 ; RICHARDSON, Bull. Bureau Fisheries xxiv : *Æ. ommatophylax* Galle, p. 21, pls. iv & v, A ; STEBBING, Rep. Ceylon Pearl Fisheries iv : **n. spp.**
- Ægidæ*, key to gen., p. 20 ; STEBBING, t. c.
- Alcirona papuana*, p. 502, pl. xiii, fig. 5, NOBILI, Ann. Mus. Hungar. iii, **n. sp.**

- Ancinella* n. g. (*Sphæromidæ*), p. 114, *profunda*, N. Atlantic, p. 132 ; HANSEN, Quart. J. Micr. Sci. xlix, n. sp.
- Anciniidæ* n. fam. ; TATTERSALL, Rep. Brit. Ass. lxxiv, 1904 (1905), p. 601, and Fisheries, Ireland, Sci. Invest. 1904, ii (1905), p. 11.
- Anilocra frontalis*, hepatic cells ; GUIEYSSE, Bull. Soc. Philom. vii (4), pp. 207-211, 1 text-fig. : *A. dimidiata*, p. 26 ; STEBBING, Rep. Ceylon Pearl Fisheries iv.
- Argathona* n. g. (*Argathonidæ*) *normani*, Gulf of Manaar, p. 17, pl. iii, A ; STEBBING, t. c. n. sp.
- Argathonidæ* n. fam., p. 16 ; STEBBING, t. c.
- Bathycopea* n. g. (*Anciniidæ*), *typhlops*, W. of Ireland, p. 601 ; TATTERSALL, Rep. Brit. Ass. lxxiv, 1904 (1905) : *B. typhlops*, p. 12, pl. iii, figg. 1-13 ; TATTERSALL, Fisheries, Ireland, Sci. Invest. 1904, ii (1905) : n. sp.
- Cæcosphæroma*, p. 375, *virei*, p. 376, pl. xiv, figg. 3-3b, pl. xv, figg. 3 & 9 ; DOLLFUS, Ann. Sci. Nat. (8), xx.
- Cassidinidea* n. g. (*Sphæromidæ*), type *ovalis* Say, p. 113 ; HANSEN, Quart. J. Micr. Sci. xlix. [See also *Cassidisca*.]
- Cassidinopsis* n. g. (*Sphæromidæ*), type *emarginata* Guérin, p. 108 ; HANSEN, t. c.
- Cassidisca* n. g. for *lunifrons* Rchdn. etc., p. 272, cancelled as syn. of *Cassidinidea*, p. ix ; RICHARDSON, Bull. U. S. Mus. liv.
- Cilicæa caudata*, *gilliana*, *sculpta*, and *cordata* referred to *Paracerceis*, p. ix ; RICHARDSON, Bull. U. S. Mus. liv : *C.*, key to spp., p. 34, *latreillii*, p. 36, pls. iii, B and viii ; STEBBING, Rep. Ceylon Pearl Fisheries iv.
- C. whiteleggei*, p. 39, pl. ix, A & B, *beddardi*, p. 40, pl. x, A & B, sp., juv., p. 42, pl. ix, c, Gulf of Manaar ; STEBBING, t. c. n. spp.
- Cilicæopsis* n. g. (*Sphæromidæ*), type *granulata* Whitelegge, p. 104 ; HANSEN, Quart. J. Micr. Sci. xlix.
- Cirolana hirtipes*, habits, p. 25 ; BRIAN, Boll. Naturalista xxv (3) : *C.*, key to European spp., p. 340, *borealis*, p. 342, *neglecta*, p. 345, *cæca*, p. 348, *microphthalma*, p. 349, *cranchii*, p. 350, pl. xxxiii, fig. 3a, *hanseni*, p. 353, pl. xxxiii, figg. 4a-4d, pl. xxxiv, figg. 1a-1k ; HANSEN, J. Linn. Soc. Zool. xxix : *C. sulcaticauda*, p. 11, *parva*, p. 12 ; STEBBING, Rep. Ceylon Pearl Fisheries iv : *C. borealis*, p. 43, pl. ix, fig. 8 ; TATTERSALL, Fisheries, Ireland, Sci. Invest. 1904, ii (1905).
- C. gallica* Roscoff, p. 344, pl. xxxiii, figg. 1a-1d, *schmidtii*, N. Atlantic, p. 347, pl. xxxiii, figg. 2a-2c ; HANSEN, J. Linn. Soc. xxix : *C. chiltoni*, San Francisco, p. 91, text-fig. 73 ; RICHARDSON, Bull. U. S. Mus. liv : n. spp.
- Cirolaninae*, key to genera, p. 339 ; HANSEN, J. Linn. Soc. xxix.
- Conilera cylindræa*, p. 355 ; HANSEN, t. c.
- Conilorpheus* n. g. (*Eurydicidæ*) *herdmani*, Gulf of Manaar, p. 13, pl. ii, A ; STEBBING, Rep. Ceylon Pearl Fisheries iv, n. sp.
- Cymodoce bicarinata*, p. 42, pl. x, c, *inornata*, p. 43 ; STEBBING, t. c. : *C. truncata* (= *Sphæroma inerme* Tatt.), p. 6, pl. ii, figg. 1-9, *granulatum*, p. 10 ; TATTERSALL, Fisheries, Ireland, Sci. Invest. 1904, ii (1905).
- Discerceis* n. g. (*Sphæromidæ*) *granulosa* and *linguicauda*, p. x ; RICHARDSON, Bull. U. S. Mus. liv.
- Dynamene perforata*, *benedicti*, *glabra*, and *moorei*, referred to *Dynamenella*, p. x, *D. carinata*, referred to *Dynameniscus*, p. xi ; RICHARDSON, t. c.
- D. moorei*, W. Indies, p. 303, text-figg. 325 & 326 ; RICHARDSON, t. c. n. sp.
- Dynamenella* n. g. (*Sphæromidæ*) type *perforata* Moore, p. 107 ; HANSEN, Quart. J. Micr. Sci. xlix. [See also *Dynamene*.]
- Dynameniscus* n. g. (*Sphæromidæ*) *carinata*, p. xi ; RICHARDSON, Bull. U. S. Mus. liv.
- Eurydice*, key to European spp., p. 357, *spinigera*, p. 359, *grimaldii*,

- p. 361, *truncata*, p. 363, pl. xxxiv, figg. 2a-2b, *pulchra*, p. 365, pl. xxxiv, figg. 3a-3c, pl. xxxv, fig. 1a, *inermis*, p. 369, pl. xxxv, figg. 3a-3c; HANSEN, J. Linn. Soc. xxix: *E. truncata*, p. 45, pl. xi, figg. 5-8; TATTERSALL, Fisheries, Ireland, Sci. Invest. 1904, ii (1905).
- E. affinis*, coast of France, p. 367, pl. xxxv, figg. 2a-2k; HANSEN, J. Linn. Soc. xxix, n. sp.
- Eurydicidæ* (= *Cirolanidæ*), key to gen., p. 10; STEBBING, Rep. Ceylon Pearl Fisheries iv.
- Exosphæroma faxoni*, Florida, p. 292, text-figg. 307 & 308; RICHARDSON, Bull. U. S. Mus. liv, n. sp.
- Faucheria* n. g. (*Cirolanidæ*), p. 373, *faucheri*, p. 374, pl. xiv, figg. 2 & 2a, pl. xv, figg. 2, 7 & 8; DOLLFUS, Ann. Sci. nat. (8) xx.
- Gnathia insolita*, Gulf of Manaar, p. 9, pl. xii, B; STEBBING, Rep. Ceylon Pearl Fisheries iv, n. sp.
- Hanselana sphaeromiformis*, p. 15, pl. ii, B; STEBBING, t. c.
- Hemisphaeroma* n. g. (*Sphaeromidæ*), p. 103, *pulchrum*, Java, p. 117; HANSEN, Quart. J. Micr. Sci. xlix, n. sp.
- Irona nanoides*, Gulf of Manaar, p. 28, pl. vi, B; STEBBING, Rep. Ceylon Pearl Fisheries iv, n. sp.
- Lanocira zeylanica*, Gulf of Manaar, p. 19, pl. v, B; STEBBING, t. c. n. sp.
- Livoneca* sp.; WILLINK, Natuurk. Tijdschr. Nederl. Ind. lxiv, pp. 156-161.
- L. convexa*, Panama, p. 445, 2 figg.; RICHARDSON, P. U. S. Mus. xxix, n. sp.
- Nesa bidentata*, p. 47; TATTERSALL, Fisheries, Ireland, Sci. Invest. 1904, ii (1905).
- Paracerceis* n. g. (*Sphaeromidæ*), type *caudata* Say, p. 108; HANSEN, Quart. J. Micr. Sci. xlix. [See also *Cilicæa*.]
- Paradynamene* n. g. (*Sphaeromidæ*) *benjamensis*, Gulf-weed, p. 305, text-figg. 330-333; RICHARDSON, Bull. U. S. Mus. liv, n. sp.
- Rhiothra callipia*, p. 26, pl. vi, A; STEBBING, Rep. Ceylon Pearl Fisheries iv.
- Rocinela belliceps*, p. 213, text-fig. 2, *angustata*, p. 214, text-fig. 3; RICHARDSON, Bull. Bureau Fisheries xxiv: *R. orientalis*, p. 24, pl. vi, C; STEBBING, Rep. Ceylon Pearl Fisheries iv.
- R. propodialis*, Alaska, p. 214, text-fig. 4; RICHARDSON, Bull. Bureau Fisheries xxiv, n. sp.
- Speleosphæroma* n. g. (*Cirolanidæ*, sec. DOLLFUS), *julium*, Par-rieki, Italy; FERUGLIO, Il Mondo sotteraneo 1904, Nos. 1 & 2. [Quoted from DOLLFUS, Ann. Sci. Nat. (8) xx, p. 373.]
- Sphaeroma inerme*, W. of Ireland, p. 601; TATTERSALL, Rep. Brit. Ass. lxxiv, 1904 (1905) [see *Cymodoce truncata*]: *S. walkeri*, Gulf of Manaar, p. 31, pl. vii; STEBBING, Rep. Ceylon Pearl Fisheries iv: n. spp.
- Sphaeromidæ*, revision of sub-families, groups, and genera; HANSEN, Quart. J. Micr. Sci. xlix, pp. 69-135, pl. vii: discussion of genera, p. 29; STEBBING, Rep. Ceylon Pearl Fisheries iv.
- Sphaeromides*, p. 371, *raymondi*, p. 372, pl. xiv, fig. 1, pl. xv, figg. 1 & 6; DOLLFUS, Ann. Sci. Nat. (8) xx.
- Tecticeps alascensis* and *convexus*, p. xi; RICHARDSON, Bull. U. S. Mus. liv.
- Tridentella* n. g. (*Corallanidæ*) for *virginiana* Rehdn., p. 161; RICHARDSON, Bull. U. S. Mus. liv.
- Typhlocirolana* n. g. (*Cirolanidæ*), p. 74, *moraguesi*, Majorca, p. 76; RACOVITZA, Bull. Soc. zool. France xxx, n. sp.
- Vireia* n. g. (*Sphaeromidæ*), p. 377, *burgunda*, p. 378, pl. xiv, figg. 4 & 4a, pl. xv, figg. 4, 10 & 11, *berica*, p. 379, pl. xiv, figg. 5 & 5a, pl. xv, figg. 5, 12 & 13; DOLLFUS, Ann. Sci. Nat. (8) xx.

VALVIFERA.

- Valvifera* of N. America, descr. and figg. of all spp. (only n. gg. and spp. noted below); RICHARDSON, Bull. U. S. Mus. liv.
- Amesopodidae* n. fam., p. 44; STEBBING, Rep. Ceylon Pearl Fisheries iv.
- Amesopus* n. g. (*Amesopodidae*) *richardsonæ*, Gulf of Manaar, p. 44, pl. xi, A; STEBBING, t. c. n. sp.
- Arcturella dilatata*, Firth of Forth, p. 151, pl. xiii, fig. 11; T. SCOTT, Rep. Fish. Board Scotland xxiii, Pt. iii.
- Astacilla amblyura*, Gulf of Manaar, p. 46, pl. xi, B; STEBBING, Rep. Ceylon Pearl Fisheries iv, n. sp.
- Erichsonella* n. nom. for *Erichsonia*, preocc., p. 400; BENEDICT in RICHARDSON, Bull. U. S. Mus. liv.
- Idothea* Fabr., 1799, distinct from *Idotea* Weber, 1795; RICHARDSON, P. Soc. Washington xviii, pp. 9 & 10.
- Idothea* spp. from Port Erin; HEWITT, P. Liverp. biol. Soc. xix, pp. 14 & 15: *I. spp.*, p. 48; TATTERSALL, Fisheries, Ireland, Sci. Invest. 1904, ii (1905).
- I. fewkesi*, California, p. 359, text-figg. 387 & 388; RICHARDSON, Bull. U. S. Mus. liv, n. sp.
- Mesidotaea* n. g. (*Idotheidae*) for *entomon* (Linn.) etc., p. 347; RICHARDSON, t. c.
- Pentidotaea* n. g. (*Idotheidae*) for *resecata* (Stimpson) etc., p. 368; RICHARDSON, t. c.

EPICARIDEA.

- Epicaridea* of N. America, descr. and figg. of all spp. (only n. g. and sp. noted below); RICHARDSON, Bull. U. S. Mus. liv.
- Epicaridea*, notes on spp., p. 54; TATTERSALL, Fisheries, Ireland, Sci. Invest. 1904, ii (1905).
- Bopyruscus* n. g. (*Bopyridæ*) *calmani*, California, p. 562, text-figg. 617-619; RICHARDSON, Bull. U. S. Mus. liv, n. sp.
- Bopyroides hippolytes*, p. 218, text-figg. 6 & 7; RICHARDSON, Bull. Bureau Fisheries xxiv.
- B. furcata* (not descr.), p. 17; NORMAN, Mus. Nor. Crust., 2nd Ed., n. sp.
- Colypuridae* n. fam. for *Colypurus* (q.v.), p. 105; RICHARDSON, Bull. Mus. Harvard xlvi (6).
- Colypurus* n. g. (*Colypuridae*), p. 105, *agassizi*, Eastern Pacific, p. 106, 1 pl.; RICHARDSON, t. c. n. sp.
- Cryptonscidae*, larva on *Næsa bidentata*, p. 47; TATTERSALL, Fisheries, Ireland, Sci. Invest. 1904, ii (1905).
- Gyge branchialis*, distribution; GIARD, Feuille Natural. xxxvi, No. 421, p. 12: *G. galatheæ* Bate & Westwood = *G. branchialis* Cornalia & Panceri, note on host, p. 86; NORMAN, Ann. Nat. Hist. (7) xvi.
- Heterophryxus appendiculatus*, p. 77, pl. xi, figg. 1-4; TATTERSALL, Fisheries, Ireland, Sci. Invest. 1904, ii (1905).
- Holophryxus* n. g. (*Dajidae*), p. 220, *alaskensis*, Alaska, p. 221, text-figg. 8-10; RICHARDSON, Bull. Bureau Fisheries xxiv, n. sp.
- Lobocepon* n. g. (*Bopyridæ*), p. 504, *grapsi*, on *Grapsus grapsus*, New Guinea, p. 505, pl. xiii, fig. 6; NOBILI, Ann. Mus. Hungar. iii, n. sp.
- Rhabdochiridae* n. fam. for *Rhabdocheirus incertus* Bonnier, p. 105; RICHARDSON, Bull. Mus. Harvard xlvi (6).
- Scyracepon* n. g. (*Bopyridæ*), p. 35, *tuberculosa*, on *Scyramathia carpenteri*, W. of Ireland, p. 36, pl. xi, figg. 9-12; TATTERSALL, Fisheries, Ireland, Sci. Invest. 1904, ii (1905), n. sp.

ONISCOIDEA.

[See also CHILTON (70), LEBEDĪNSKIĪ (166).]

- Oniscoidea*, general account of structure and habits, descriptions and figures of British species; WEBB & SILLEM, Essex Natural. xiv, pp. 38-56 & 81-96.
- Oniscoidea* of N. America, descr. and figg. of all spp. (only n. spp. noted below); RICHARDSON, Bull. U. S. Mus. liv.
- Distrib. of spp. introduced into Australia and New Zealand; CHILTON, Ann. Nat. Hist. (7) xvi, pp. 428-432.
- Actoniscus lindahli*, California, p. 635, text-figg. 679-680; RICHARDSON, Bull. U. S. Mus. liv, n. sp.
- Ambounia suarezi*, p. 51, pl. vi, fig. 30; BUDDE-LUND, Revis. Crust. Isop. Terr. 1904.
- Arhina* n. g. (*Oniscidæ*), p. 44, *porcellioides* (loc.?), p. 45, pl. vi, figg. 7-17; BUDDE-LUND, t. c. n. sp.
- Armadillidium bifidum*, p. 172, text-fig. 1, *halophilum*, p. 172, text-fig. 2, Cyprus; DOLLFUS, Feuille Natural. xxxv, No. 418, n. spp.
- Armadillo*, revision of genus, many spp. re-descr. and figured, p. 96; BUDDE-LUND, Revis. Crust. Isop. Terr. 1904.
- A. erythroleucus*, Crimea, p. 98, *montanus*, Tripoli, p. 99, *verrucosus*, Écuador, p. 104, *crassus*, St Thomas Id. (G. of Guinea), p. 105, *congener*, Brazil, p. 108, *tuberosus*, Hayti, p. 109, *festivus*, Pt. Elizabeth, p. 112, pl. ix, figg. 40 & 41, *mixtus*, Algoa Bay, p. 113, *microps*, Borneo, p. 116, *marcidus*, Pulo Penang, p. 117, *miser*, Australia, p. 121, *proximatus*, Borneo, p. 122, pl. x, fig. 23, *immotus*, Pulo Penang, p. 122, pl. x, fig. 24, *egens*, Nyassaland, p. 124, *conglobator*, Pulo Penang, p. 124, *intermixtus*, Selangor, p. 126, pl. x, figg. 28-32, *nigromarginatus*, Selangor, p. 127, *emunitus*, Siam, p. 129, *panurus*, Natal, p. 131, *latifrons*, S. Africa, p. 132, pl. x, figg. 39-44; BUDDE-LUND, t. c. n. spp.
- Armadilloniscus* (?) *cecconii*, Cyprus, p. 176, text-fig. 8; DOLLFUS, Feuille Natural. xxxv, No. 418, n. sp.
- Ethelum* n. subg. of *Eubelum*, p. 24; BUDDE-LUND, Revis. Crust. Isop. Terr. 1899, see also Ent. Meddel. (2) i, p. 90.
- Helleria brevicornis*, synonymy and distrib.; NOBILI, Boll. Mus. Torino xx, No. 491.
- Hiallum* n. subg. of *Eubelum*, p. 22; BUDDE-LUND, Revis. Crust. Isop. Terr. 1899, see also Ent. Meddel. (2) i, p. 88.
- Hypergnathus* n. g. (*Oniscidæ*), p. 631, *texensis*, Texas, p. 632, text-figg. 675-677; RICHARDSON, Bull. U. S. Mus. liv, n. sp.
- Leptotrichus cecconii*, p. 175, text-fig. 6, *pilosus*, p. 176, text-fig. 7, Cyprus; DOLLFUS, Feuille Natural. xxxv, No. 418, n. spp.
- Ligia* [see *Ligyda*].
- Ligyda* Rafinesque = *Ligia* Fabr.; RICHARDSON, P. Soc. Washington xviii, p. 10.
- Lucasius orientalis*, Cyprus, p. 174, text-fig. 5; DOLLFUS, Feuille Natural. xxxv, No. 418, n. sp.
- Oniscidæ*, list of sub-fam., tribes, and genera, p. 36; BUDDE-LUND, Revis. Crust. Isop. Terr. 1904.
- Porcellio hirtipes*, Sahara, p. 325, text-figg. 1-4; DOLLFUS, Bull. Mus. Paris x, 1904 (6): *P. spatula*, p. 172, text-fig. 3, *carinatus*, p. 174, text-fig. 4, Cyprus; DOLLFUS, Feuille Natural. xxxv, No. 418: n. spp.
- Pseudarmadillo dollfusi*, Bahamas, p. 657, text-figg. 700 & 701; RICHARDSON, Bull. U. S. Mus. liv, n. sp.
- Pseudophiloscia* n. g. (*Oniscidæ*) *fragilis*, New Zealand, p. 43, pl. vi, figg. 5 & 6, *inflexa*, Chile, p. 43, pl. vi, figg. 1-4; BUDDE-LUND, Revis. Crust. Isop. Terr. 1904, n. spp.

- Saidjahus* n. g. (*Oniscidæ*), p. 49, *creper*, Borneo, p. 49, pl. vi, figg. 24-29 ;
 BUDDE-LUND, t. c. n. sp.
- Scleropactes concinnus*, p. 47, pl. vii, figg. 1-10 ; BUDDE-LUND, t. c.
- Spherillo*, revision of genus, many spp. re-descr. and figured, p. 51 ; BUDDE-LUND, t. c.
- S. sollers*, Australia, p. 55, pl. vii, figg. 16 & 17, *collaris*, Mauritius, p. 60, *squamatus*, New Zealand, p. 61, *bipunctatus*, New Zealand, p. 62, *rufomarginatus*, New Zealand, p. 64, pl. vii, figg. 34-36, *marginatus*, New Zealand, p. 65, *tarangensis*, New Zealand, p. 67, pl. viii, fig. 9, *dispersus*, Bismarck Ids., p. 70, pl. viii, fig. 10, *impressifrons*, Sydney, p. 73, *iniquus*, Cape York, p. 74, pl. viii, figg. 13 & 14, *canaliculatus*, Chatham Ids., p. 74, *chathamensis* (= *A. speciosus* Chilton, non Dana), Chatham Ids., p. 75, *peltatus*, Seychelles, p. 78, *maculosus*, Seychelles, p. 80, *decoratus*, Siam, p. 81, *boholensis*, Philippines, p. 82, *brachycephalus*, Borneo, p. 84, *obliquipes*, Philippines, p. 85, *lentus*, New Guinea, p. 88, pl. viii, figg. 37-39, *setuceus*, Auckland, p. 89, *nobilis*, Riu-Kiu Ids., p. 90, pl. ix, figg. 1 & 2, *ingens*, Philippines, p. 91, pl. ix, figg. 4-7, *caligans*, Philippines, p. 92, *brevis*, Auckland, p. 93 ; BUDDE-LUND, t. c. n. spp.
- Suarazia* n. g. (*Oniscidæ*), p. 47, *heterodoxa*, p. 48, pl. vi, figg. 18-23 ;
 BUDDE-LUND, t. c.
- Suiniva* n. g. (*Oniscidæ*), p. 48, *mystica* (not described), Madagascar, p. 49 ;
 BUDDE-LUND, t. c. n. sp.
- Syngastron* Costa = *Helleria* Ebner, p. 2 ; NOBILI, Bull. Mus. Torino xx, No. 491.
- Syntomagaster dasypus* Costa = *Helleria brevicornis*, Ebner p. 2 ; NOBILI, t. c.
- Titanethes albus*, p. 56, fig. 10 ; LEBEDINSKIÏ, Zapiski Novoross. Obshch. xxiii (2).
- Trichoniscus roseus*, Ireland ; WELCH, Irish Natural. xiv, p. 198.

7. AMPHIPODA.

[See also BRADY (36), BUCHINSKAIO (47), CHILTON (70), CHUN (71), PAULMIER (220), SCOTT (266 & 269), SMITH (285), WOLTERSTORFF (340).]

Amphipoda, revision of nomenclature of spp. described in Bate & Westwood's "British Sessile-eyed Crustacea"; NORMAN, Ann. Nat. Hist. (7) xvi, pp. 78-95.

GAMMARINA.

[See also HUBER (141), LEBEDINSKIÏ (165 & 166), OSTWALD (216).]

Gammarina of North Sea, notes on many spp., only those figured are noted below ; REIBISCH, Wiss. Meeresuntersuch. Kiel viii, pp. 147-188.

"Secondary appendage" of antennules as systematic character ; WALKER, Ann. Nat. Hist. (7) xvi, p. 464.

List of spp. from N. Atlantic, p. 7 ; CHEVREUX, Bull. Mus. Monaco xxxv.

Acanthozone cuspidata, p. 491, pl. ix, fig. 1 & text-fig. ; HOLMES, Bull. Bureau Fisheries xxiv.

Allorchestes littoralis, p. 472, pl. iii, fig. 2 & text-fig. ; HOLMES, t. c.

Ampelisca macrocephala, p. 479, text-fig., *spinipes*, p. 480, text-fig., *agassizi*, p. 481, text-fig. ; HOLMES, t. c.

A. compressa, New England, p. 480, pl. vi, fig. 1 & text-fig. ; HOLMES, t. c. n. sp.

Amphithoë longimana, p. 509, pl. xiii, fig. 2 & text-fig., *rubricata*, p. 510,

- pl. xiii, fig. 1 & text-fig.; HOLMES, t. c.: *A. albomaculata* Bate & Westwood = *Podoceropsis excavata* Bate, p. 83; NORMAN, Ann. Nat. Hist. (7) xvi.
- Anonyx nugar*, p. 472, pl. iii, fig. 3 & text-fig.; HOLMES, Bull. Bureau Fisheries xxiv.
- Apherusa gracilis*, New England, p. 495, text-fig.; HOLMES, t. c. n. sp.
- Autonoë smithi*, New England, p. 516, text-fig.; HOLMES, t. c. n. sp.
- Batea secunda*, New England, p. 499, text-fig.; HOLMES, t. c. n. sp.
- Bathonyx* n. g. (*Gammaridæ*) *de Vismesi*, Lough Mask, p. 2, pls. i & ii, figg. 1-19; VEJDOVSKÝ, SB. Bohmisch. Ges. 1905, xxviii, n. sp.
- Bathyporeia norvegica*, p. 157, pl. iv, figg. 2-6, *pelagica*, p. 158, pl. iv, figg. 7 & 8, *gracilis*, p. 158, pl. iv, figg. 9-12, *pilosa*, p. 160, pl. iv, fig. 13; REIBISCH, Wiss. Meeresuntersuch. Kiel viii.
- Bruzeliella* n. g. (= *Podocerus*, auctt. = *Jassa* Stebbing, non Bruzelius), type, *B. falcata* Montagu, p. 83; NORMAN, Ann. Nat. Hist. (7) xvi.
- Byblis serrata*, p. 482, pl. v, fig. 3 & text-fig.; HOLMES, Bull. Bureau Fisheries xxiv.
- Calliopius læviusculus*, p. 494, pl. x, fig. 1 & text-fig.; HOLMES, t. c.
- Carinogammarus mucronatus*, p. 503, text-fig.; HOLMES, t. c.
- Cerapus tabularis*, p. 517, text-fig.; HOLMES, t. c.
- Charcotia* n. g. (*Lysianassidæ*) *obesa*, Antarctic Seas, p. 163, text-fig. 3; CHEVREUX, Bull. Soc. zool. France xxx, n. sp.
- Cheirimedon dentimanus*, Antarctic Seas, p. 159, text-fig. 1; CHEVREUX, t. c. n. sp.
- Chelura terebrans*, p. 508, text-fig.; HOLMES, Bull. Bureau Fisheries xxiv.
- Coremapus* n. g. (near *Microdeutopus*), type *versiculatus* Bate, p. 78; NORMAN, Ann. Nat. Hist. (7) xvi.
- Corophium cylindricum*, p. 521, text-fig.; HOLMES, Bull. Bureau Fisheries xxiv.
- Cyphocaris richardi*, Azores, p. 1, figg. 1 & 2; CHEVREUX, Bull. Mus. Monaco xxiv: *C. alicei*, Atlantic, p. 1, figg. 1 & 2; CHEVREUX, Bull. Mus. Monaco xxvii: n. spp.
- Dexamine thea*, p. 498, text-fig.; HOLMES, Bull. Bureau Fisheries xxiv.
- Elasmopus lævis*, p. 507, pl. xii, fig. 1 & text-fig.; HOLMES, t. c.
- E. latibrachium*, Maldive Ids., p. 928, pl. lxxxviii, figg. 6-10; WALKER, Fauna Maldive ii, n. sp.
- Epimeria loricata*, p. 491, pl. viii, fig. 3; HOLMES, Bull. Bureau Fisheries xxiv.
- Erichthonius rubricornis*, p. 518, text-fig., *minax*, p. 519, text-fig.; HOLMES, t. c.
- Eusirus cuspidatus*, p. 493, pl. ix, fig. 3 & text-fig.; HOLMES, t. c.
- Gammarellus angulosus*, p. 508, pl. x, fig. 2 & text-fig.; HOLMES, t. c.
- Gammaropsis gardineri*, Maldive Ids., p. 929, pl. lxxxviii, figg. 11-14, 16, 17; WALKER, Fauna Maldive ii, n. sp.
- Gammarus locusta*, p. 500, pl. x, fig. 3 & text-fig., *annulatus*, p. 501, pl. xi, fig. 2 & text-fig., *marinus*, p. 502, pl. xi, fig. 1 & text-fig.; HOLMES, Bull. Bureau Fisheries xxiv: *G. annulatus*, phototropism; SMITH, Amer. J. Physiol. xiii, pp. 205-216, 4 text-figg.
- Grubia compta*, p. 510, text-fig.; HOLMES, Bull. Bureau Fisheries xxiv: *G. microphthalmia*, p. 930, pl. lxxxviii, fig. 15, text-fig. 142; WALKER, Fauna Maldive ii.
- Guerinella* n. nom. (for *Guerina* Della Valle), p. 7; CHEVREUX, Bull. Mus. Monaco xxxv.
- Halirages fulvocinctus*, p. 495, text-fig.; HOLMES, Bull. Bureau Fisheries xxiv.
- Harpinia plumosa*, p. 478; HOLMES, t. c.
- Haustorius arenarius*, p. 476, pl. v, fig. 2 & text-fig.; HOLMES, t. c.
- Hippomedon kergueleni*, p. 3; THOMSON, P. Soc. Tasmania 1900/1901.

- H. serratus*, New England, p. 473, pl. iv, fig. 2 & text-fig.; HOLMES, Bull. Bureau Fisheries xxiv, n. sp.
- Hoplonyx cicada*, p. 474, pl. iv, fig. 1 & text-fig.; HOLMES, t. c.
- Hyale nilssoni*, p. 925, text-fig. 140; WALKER, Fauna Maldive ii.
- Ischyrocerus anguipes*, p. 513, pl. xiii, fig. 3 & text-fig.; HOLMES, Bull. Bureau Fisheries xxiv.
- Jassa marmorata*, New England, p. 511, text-fig.; HOLMES, t. c. n. sp.
[See also *Bruzeliella*.]
- Katius* n. g. (*Lysianassidæ*) *obesus*, N. Atlantic, p. 1, figg. 1-3; CHEVREUX, Bull. Mus. Monaco xxxv, n. sp.
- Kröyera arenaria*, p. 182, pl. v, figg. 6-10, *altamarina*, p. 183, pl. v, figg. 11-15; REIBISCH, Wiss. Meeresuntersuch. Kiel viii.
- Lafystius sturionis*, p. 492, pl. ix, fig. 2 & text-fig.; HOLMES, Bull. Bureau Fisheries xxiv.
- Leucothoë spinicarpa*, p. 486, pl. vii, fig. 1 & text-fig.; HOLMES, t. c.: *L. lilljeborgii*, p. 179, pl. v, fig. 5; REIBISCH, Wiss. Meeresuntersuch. Kiel viii.
- Lysianopsis* n. g. (*Lysianassidæ*) *alba*, New England, p. 475, pl. v, fig. 1 & text-fig.; HOLMES, Bull. Bureau Fisheries xxiv, n. sp.
- Mæra danaë*, p. 525, pl. xii, fig. 2; HOLMES, t. c.
- Melita dentata*, p. 504, text-fig., *nitida*, p. 505, pl. xi, fig. 3 & text-fig.; HOLMES, t. c.
- M. parvimana*, New England, p. 506, text-fig.; HOLMES, t. c. n. sp.
- Menigrates obtusifrons*, p. 154, pl. iv, fig. 1; REIBISCH, Wiss. Meeresuntersuch. Kiel xiii.
- Metopa grænlandica*, p. 483, pl. vi, fig. 3 & text-fig.; HOLMES, Bull. Bureau Fisheries xxiv.
- M. quadrangula*, North Sea, p. 178, pl. v, figg. 1-4; REIBISCH, Wiss. Meeresuntersuch. Kiel viii, n. sp.
- Microdeutopus gryllotalpa*, p. 514, text-fig., *danmonensis*, p. 515, text-fig.; HOLMES, Bull. Bureau Fisheries xxiv.
- Monoculodes edwardsi*, New England, p. 487, text-fig.; HOLMES, t. c. n. sp.
- Niphargus caspary* Pratz = *N. kochianus* de Rougemont, non Bate, p. 18, text-figg. i-xiv; VEJDOVSKY, SB. Bohmisch Ges. 1905, xxviii.
- Orchestia agilis*, p. 469, pl. ii, fig. 3 & text-fig., *palustris*, p. 471, pl. iii, fig. 1 & text-fig.; HOLMES, Bull. Bureau Fisheries xxiv: *O. palustris*, structure and habits; SMALLWOOD, Cold Spring Mon. iii: *O. platensis*, p. 924, text-fig. 140; WALKER, Fauna Maldive ii.
- Orchomenella macronyx*, Antarctic Seas, p. 161, text-fig. 2; CHEVREUX, Bull. Soc. zool. France xxx, n. sp.
- Paracyphocaris* n. g. (*Lysianassidæ*) *prædator*, N. Atlantic, p. 1, figg. 1-3; CHEVREUX, Bull. Mus. Monaco xxxii, n. sp.
- Paragrubia vorax*, p. 930, pl. lxxxviii, fig. 18; WALKER, Fauna Maldive ii.
- Paramphithoë pulchella*, p. 489, pl. viii, fig. 1 & text-fig.; HOLMES, Bull. Bureau Fisheries xxiv.
- Paraphoxus spinosus*, New England, p. 477, text-fig.; HOLMES, t. c. n. sp.
- Parapleustes latipes*, p. 187, pl. v, fig. 19; REIBISCH, Wiss. Meeresuntersuch. Kiel viii.
- Paratylus minikoi*, Minikoi, p. 925, text-fig. 141; WALKER, Fauna Maldive ii, n. sp.
- Parædiceros lynceus*, p. 487, pl. vii, fig. 2 & text-fig.; HOLMES, Bull. Bureau Fisheries xxiv.
- Phoxocephalus hölbölli*, p. 477, text-fig.; HOLMES, t. c.
- Pleustes panoplus*, p. 488, pl. vii, fig. 3 & text-fig.; HOLMES, t. c.
- Podoceropsis nitida*, p. 524, text-fig.; HOLMES, t. c.
- Podocerus* [see *Bruzeliella*].
- Polycheria atollii*, Maldive Ids., p. 926, pl. lxxxviii, figg. 1-5; WALKER, Fauna Maldive ii, n. sp.

- Pontogeneia inermis*, p. 496, text-fig. ; HOLMES, Bull. Bureau Fisheries xxiv.
Pontoporeia femorata, p. 476, text-fig. ; HOLMES, t. c.
Ptilocheirus pinguis, p. 522, pl. xii, fig. 3 & text-fig. ; HOLMES, t. c.
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Westwoodilla hyalina, p. 184, pl. v, figg. 16-18 ; REIBISCH, t. c.

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- Acanthoscina macrocarpa*, N. Atlantic, p. 2, fig. ; CHEVREUX, Bull. Mus. Monaco xxxvii, n. sp.
Brachyscelus mediterraneus and *crusculum*, notes ; SENNA, Annuar. Mus. Univ. Napoli i (6), 9 pp., 10 text-figg.
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CAPRELLINA.

[See also BRAUN (37), VAN BREEMEN (38).]

- Æginella longicornis*, p. 525, text-fig. ; HOLMES, Bull. Bureau Fisheries xxiv.
Caprella geometrica, p. 526, text-fig., *linearis*, p. 526, text-fig., *septentrionalis*, p. 527, *stimpsoni*, p. 527 ; HOLMES, t. c.
Podalirius sp. in Lake of Geneva ; BLANC, Arch. Sci. Nat. xix (2), p. 208, and C.R. vi. Congr. Internat. Zool. Berne, pp. 425-429, 4 text-figg.

8. PHYLLOCARIDA.

[See also THIELE in ZIMMER (349).]

- Nebalia typhlops*, off W. of Ireland ; TATTERSALL, Ann. Rep. Fish. Ireland 1902-1903, Pt. ii, App. vii (1905), p. 210 : *N. longicornis magellanica*,

p. 66, pl. ii, figg. 14-17; THIELE, *Deutsch. Südpol. Exp. 1901-1903*, ix.

Nebaliella extrema, Antarctic Sea, p. 61, pl. ii, figg. 1-13; THIELE, t. c. n. sp.

B. ENTOMOSTRACA.

[See PAULSEN (221).]

1. BRANCHIOPODA.

a. PHYLLOPODA.

[See also BUCHĪNSKAIO (47), DEYROLLE (94), †NEWTON (188), SCOURFIELD (274), SNETHLAGE (289), †WALTHER (319), †WOODWARD (342).]

Phyllopoda, structure of eyes and frontal organ; NOWIKOFF, *Zeitschr. wiss. Zool.* lxxix, pp. 432-464, pls. xxii & xxiii, 9 text-figg.

Phyllopoda, notes on British spp.; SCOURFIELD, *J. Quekett Club* (2) ix, pp. 39 & 40.

Apus sp., in Balúchistán; VREDENBURG, *Jour. and Proc. Asiatic Soc. Bengal* (n. s.) i (3), pp. 33 & 34, 1 text-fig.

A. sakalavus, Madagascar, p. 1; NOBILI, *Boll. Mus. Torino* xx, No. 513, n. sp.

Artemia salina, habits, breeding etc.; ARTOM, *Zool. Anz.* xxix, pp. 284-291, 1 text-fig.: cervical plate of nauplius; ZOGRAF, *C.R. Ac. Sci.* cxli, pp. 903-905.

Branchinecta coloradensis, *lindahli* and *paludosa*, compared, notes on development; SHANTZ, *Biol. Bull.* ix, pp. 249-264, pls. x-xii.

Chirocephalus diaphanus, phagocytosis and excretion; BRUNTZ, *Arch. Zool. exp.* (4) iv, pp. 183-198, pl. xiv, and *C.R. Soc. Biol.* lix, 1905 (26), pp. 229 & 230.

Estheria hislopi, p. 231, pl. xv, figg. 1-10; DADAY, *Zoologica* xviii (44).

E. obliqua, Cape Colony, p. 10, pl. ii; SARS, *Arch. Naturv. Christian.* xxvii (4), n. sp.

Limnadia lenticularis, anatomy and histology; NOWIKOFF, *Zeitschr. wiss. Zool.* lxxviii, pp. 561-619, pls. xix-xxii, 5 text-figg.: *L. lenticularis*, p. 63, pl. iv, figg. a-f; VÁVRA, *J. Quekett Club* (2) ix (1904).

Limnetis brachyura, p. 66; VÁVRA, t. c.

†*Ribeiria parva*, Ordovician, Pennsylvania, p. 419, pl. lix, figg. 4 & 5; COLLIE, *Bull. Geol. Soc. Amer.* xiv, n. sp.

Streptocephalus dregei, p. 298, pl. xviii, figg. 1 & 2; GURNEY, *P. Zool. Soc. London* 1904, ii (2) (1905).

S. papillatus, Cape Colony, p. 4, pl. i; SARS, *Arch. Naturv. Christian.* xxvii (4), n. sp.

b. CLADOCERA.

[See also VAN BREEMEN (38), BREHM (39), BREHM & ZEDERBAUER (41), GURNEY (121), HUBER (141), JUDAY (154), MACCALLUM (173), MURRAY (187), RUTTNER (255), SARS (261), A. SCOTT (263 & 264), T. SCOTT (266, 269, 272), SCOURFIELD (273), SKORIKOW (283), VOIGT (315), WELTNER (324), WOLTERSTORFF (340), ZACHARIAS (344 & 345), ZYKOFF (352, 353, 355).]

Cladocera, review of distribution; STINGELIN, *C.R. vi. Congr. Internat. Zool. Berne*, pp. 533-541.

Cladocera, "olfactory" filaments; SCOURFIELD, *Forschber. Plon* xii, pp. 340-353, pls. v & vi.

- Cladocera*, figg. and notes on spp., some new varr. described, in Servian ;
 ČORČEVIĆ, Ghlas Srpska Ak. lxxix, pp. 190-249.
- Cladocera*, notes (in Russian) and figg. of some freshwater spp. ; MEISSNER,
 Trudui Kazan Univ. xxxix (3).
- Acroperus harpæ*, p. 154, text-figg. 9-12 ; KEILHACK, Arch. Naturg.
 lxxi (i).
- Alona affinis*, p. 171, pl. x, figg. 26 & 27, *cambouei*, p. 172, pl. xi, figg. 1 & 2,
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 xviii (44) : *A. (Pleuroxus) nana*, p. 259, text-fig. 45 ; TIMM, Mt. Mus.
 Hamburg xxii.
- Alonopsis ambigua*, p. 150, text-fig. ; GURNEY, Tr. Norfolk Soc. viii.
- Anchistropus emarginatus*, p. 264, text-fig. 56 ; TIMM, Mt. Mus. Hamburg
 xxii.
- Bosmina longirostris*, p. 49, text-fig. 1 ; BREHM & ZEDERBAUER, Verh. Ges.
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- Bosminella anisitsi*, p. 199, pl. xiii, figg. 1-5 : DADAY, t. c.
- Camptocercus australis*, p. 189, pl. xii, fig. 4 ; DADAY, t. c.
- Ceriodaphnia cornuta*, p. 205, pl. xiii, figg. 16 & 17, *rigaudi*, p. 206, pl. xiii,
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 2 text-figg. ; MONTI, Forschber. Plon xii : *D. obtusa*, parasite of ;
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 ZWACK, Zeitschr. wiss. Zool. lxxix, pp. 548-573, pls. xxvi & xxvii.
- Diaphanosoma leuchtenbergianum*, p. 235, text-figg. 1 & 2 ; TIMM, Mt. Mus.
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- Hyalodaphnia cucullata*, p. 238, text-figg. 3-5; TIMM, Mt. Mus. Hamburg xxii.
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- Latona setifera*, p. 139, text-fig. 1; KEILHACK, Arch. Naturg. lxxi (i).
- Latonopsis breviremis*, pl. xiv, figg. 1-3, *fasciculata*, pl. xiv, figg. 13-17, Paraguay; DADAY, Zoologica xviii (44), n. spp.
- Leptorhynchus rostratus*, p. 168, pl. x, figg. 24 & 25; DADAY, t. c.
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- Leydigopsis ornata*, Paraguay, p. 187, pl. xii, figg. 1-3; DADAY, Zoologica xviii (44), n. sp.
- Lynceus (Alona) quadrangularis*, p. 255, text-figg. 37 & 38, *affinis*, p. 256, text-figg. 39 & 40, *rectangulus*, p. 257, text-figg. 41 & 42, (*Alonella*) *rostratus*, p. 257, text-fig. 43; TIMM, Mt. Mus. Hamburg xxii.
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- M. gibbera*, Paraguay, p. 195, pl. xii, figg. 15-17; DADAY, Zoologica xviii (44), n. sp.
- Moina micrura*, p. 241, text-figg. 9 & 10; TIMM, Mt. Mus. Hamburg xxii.
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- Monospilus dispar*, p. 263, text-fig. 55; TIMM, Mt. Mus. Hamburg xxii.
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- Pseudalona latissima*, p. 183, pl. xi, fig. 16, *longirostris*, p. 184, pl. xi, fig. 18; DADAY, Zoologica xviii (44).
- Simocephalus*, priority, p. 141; KEILHACK, Arch. Naturg. lxxi (i): *S. capensis*, p. 209, pl. xiii, figg. 23 & 24; DADAY, Zoologica xviii (44): *S. vetulus*, p. 240, text-figg. 6 & 7; TIMM, Mt. Mus. Hamburg xxii: *S. vetulus*, determination of sex; ISSAKOWITSCH, Biol. Zentrbl. xxv, pp. 529-536.

2. COPEPODA.

[See also BRAUN (37), VAN BREEMEN (38), BREHM (39), BREHM & ZEDERBAUER (40 & 41), BUCKINSKAIO (47), CHUN (71), DAMAS (93), HUBER (141), JENSEN (148), JOHNSTONE (150), JUDAY (154), LEBEDINSKIĀ (165), LOHMANN (171), MONTI (185), MURRAY (187), PEARSON (224), RUTTNER (255), SARS (261), A. SCOTT (263 & 264), T. SCOTT (266, 269, 271), SKORIKOW (283), VOIGT (315), WILSON (331), WOLTERSTORFF (340), ZACHARIAS (344 & 345), ZYKOFF (352, 353, 355).]

- Copepoda*, figg. and notes on freshwater spp., in Servian; ČORČEVIĆ, Ghlas Srpska Ak. lxxix, pp. 190-249.
- Copepoda*, notes (in Russian) and figg. of some freshwater spp.; MEISSNER, Trudui Kazan Univ. xxxix (3).
- Acartia clausi*, p. 49, pl. ii, figg. 9 & 10, *giesbrechti*, p. 50, pl. ii, figg. 5-8; T. SCOTT, Tr. Soc. Glasgow vii (1).
- A. simplex*, Chatham Ids., p. 375, pl. xiv, figg. 13-20; SARS, Zool. Jahrb. Syst. xxi, n. sp.
- Aerocalanus longicornis*, p. 1000, figg. on pl. xcvi, *monachus*, p. 1002, figg. on pl. xcvi, *gibber*, p. 1003, figg. on pl. xcvi, *gracilis*, p. 1003, figg. on pl. xcvi; WOLFENDEN, Fauna Maldive ii, Suppl. i.
- A. gardineri*, Maldive Ids., p. 1005, figg. on pl. xcvi; WOLFENDEN, t. c. n. sp.
- Ægisthus spinulosus*, W. of Ireland, p. 46, pl. xii, figg. 8-14, pl. xiii, figg. 1-4; FARRAN, Rep. Fish. Ireland 1902-03, Pt. ii, n. sp.
- Alebion gracile*, p. 128, *glabrum*, p. 129, Massachusetts; WILSON, P. Soc. Washington xviii, n. spp.
- Amalophora affinis*, p. 21, *obtusifrons*, p. 22, N. Atlantic; SARS, Bull. Mus. Monaco xxvi, n. spp.
- Ameira breviremis*, off Northumberland, p. 214, pl. iii, figg. 11-14, pl. iv, figg. 1-6; BRADY, Tr. Soc. Northumb. (n. s.) i: *A. simplex*, Devonshire, p. 291; NORMAN & SCOTT, Ann. Nat. Hist. (7) xv: *A. elegans*, Firth of Forth, p. 144, pl. x, figg. 18 & 19, pl. xi, figg. 1-9; T. SCOTT, Rep. Fish. Board Scotland xxiii, Pt. iii: n. spp.
- Amphiascus* n. g. (*Diosaccidæ*) = *Stenhelia* Brady, non Boeck, p. 380, *pacificus*, Chatham Ids., p. 381, pl. xv, figg. 36-52; SARS, Zool. Jahrb. Syst. xxi, n. sp.
- Anchorella uncinata*, p. 8, pl. iv, fig. 8; BRIAN, Annuar. Mus. Univ. Napoli i (24).
- Anthosoma crassum*, p. 112, pl. v, figg. 15 & 16; T. SCOTT, Rep. Fish. Board Scotland xxiii, Pt. iii.
- Anuretes heckellii*, p. 647, pl. xxv, figg. 316-321; WILSON, P. U. S. Mus. xxviii.
- Arietellus giesbrechti*, p. 21, *plumifer*, p. 21, *pavoninus*, p. 22, *simplex*, p. 22, N. Atlantic; SARS, Bull. Mus. Monaco xl, n. spp.
- Aspidiscus fasciatus*, p. 81, pl. xlviii; SARS, Crust. Norway v.
- Augaptilus angustus*, p. 10, *laticeps*, p. 11, *oblongus*, p. 11, *brevicaudatus*, p. 12, *gracilis*, p. 12, *elongatus*, p. 13, *nodifrons*, p. 13, *truncatus*, p. 14, *longicirrhus*, p. 15, *tenuicaudis*, p. 15, *gibbus*, p. 16, *longimanus*, p. 17, *cucullatus*, p. 17, N. Atlantic; SARS, Bull. Mus. Monaco xl, n. spp.
- Bathycalanus* n. g. (*Calanidæ*), p. 7, *richardi*, N. Atlantic, p. 8; SARS, op. cit. xxvi, n. sp.
- Bathypontia* n. g. (*Parapontellidæ*), p. 23, *elongata*, N. Atlantic, p. 24; SARS, op. cit. xl, n. sp.
- Beatricella* n. g. for *Delavalia mimica* Scott, p. 568; SCOTT, Ann. Nat. Hist. (7) xvi.
- Belisarius viguieri*, p. 44, pl. ii, figg. 1-5; SCOURFIELD, J. Quekett Club (2) ix (1904).
- Bœckella*, def., notes, and list of spp. p. 593; EKMAN, Zool. Anz. xxix.
- Brachiella thynni*, anatomy; MICULICICH, Zool. Anz. xxviii, pp. 599-620, 7 text-figg.: *B. spp.*, notes; MICULICICH, t. c. pp. 733-736.
- Brachycalanus* n. g. (*Calanidæ*) *atlanticus*, p. 41, pl. x, figg. 1-14; FARRAN, Rep. Fish. Ireland 1902-03, Pt. ii.
- Bradyetes* n. g. (*Calanidæ*), p. 31, *inermis*, W. of Ireland, p. 32, pl. iii, figg. 13-20, pl. iv, figg. 13-14; FARRAN, t. c. n. sp.
- Bradyidius armatus*, p. 1005; WOLFENDEN, Fauna Maldive ii, Suppl. i.
- Bryaxis brevicornis*, p. 32, pl. iv, fig. 6; FARRAN, Rep. Fish. Ireland 1902-03, Pt. ii.

- B. minor*, W. of Ireland, p. 32, pl. iv, figg. 1-5 & 7-12; FARRAN, t. c. n. sp.
- Calanipeda aquaedulcis* Kritschagin = *Pop[p]ella guerni* Richard, p. 281; ZYKOFF, Zool. Anz. xxix.
- Calanus vulgaris* var. *plumosus* n. var., p. 994, pl. xcvi, figg. 21 & 22, *caroli*, p. 994, pl. xcvi, fig. 42, *pauper*, p. 995, pl. xcvi, figg. 29, 31, 32 & 35, *minor*, p. 995, pl. xcvi, figg. 36-38, *robustior*, p. 996, pl. xcvi, figg. 5 & 6; WOLFENDEN, Fauna Maldive ii, Suppl. i.
- Caligodes megacephalus*, N. America, p. 609, pl. xvi; WILSON, P. U. S. Mus. xxviii, n. sp.
- Caligus trachypteri*, p. 3, pl. iii, figg. 1-7; BRIAN, Annuar. Mus. Univ. Napoli i (24): *C. abbreviatus*, p. 109, pl. v, figg. 1-6; T. SCOTT, Rep. Fish. Board Scotland xxiii, Pt. iii: *C. rapax*, p. 568, pl. vii and many text-figg., *curtus*, p. 578, pl. x and text-figg., *belones*, p. 586, pl. xii, figg. 135-139, *pelamydis*, p. 594, pl. xiii, figg. 154-161, pl. xiv, fig. 161a, *productus*, p. 597, pl. xiv, figg. 162-170, *balista*, p. 601, pl. xv, figg. 172-177, *isonyx*, p. 602, pl. xiv, fig. 171, pl. xv, figg. 184-186, *thymni* [*? thynni*], p. 603, pl. xv, figg. 178 & 179, *haemulonis*, p. 606, pl. xv, figg. 180-183, *monacanthi*, p. 607, *centrodonti*, p. 652, pl. xxvii; WILSON, P. U. Mus. xxviii.
- C. remorae*, Red Sea, p. 564, 9 figg.; BRIAN, Arch. parasit. ix: *C. rufimaculatus*, p. 561, pl. v, *schistonyx*, p. 564, pl. vi, *mutabilis*, p. 573, pl. viii, text-fig. 2, *aliuncus*, p. 576, pl. ix, *chelifer*, p. 582, pl. xi, *latifrons*, p. 587, pl. xii, figg. 140-149, *bonito*, p. 589, pl. xiii, figg. 150-153 and many text-figg., North America, *teres*, p. 649, pl. xxvi, Chile; WILSON, P. U. S. Mus. xxviii: n. spp.
- Candacia catula* var. *similis* n. var., p. 1012; WOLFENDEN, Fauna Maldive ii, Suppl. i.
- C. obtusa*, N. Atlantic, p. 23; SARS, Bull. Mus. Monaco xl: *C. tuberculata*, Maldive Ids., p. 1013, figg. on pl. xcvi; WOLFENDEN, Fauna Maldive ii, Suppl. i: n. spp.
- Canthocamptus bidens*, p. 144, pl. ix, figg. 5-8, *trispinosus*, p. 145, pl. ix, fig. 9; DADAY, Zoologica xviii (44): *C.*, notes on spp., breeding habits etc.; WOLF, Zool. Jahrb. Syst. xxii, pp. 101-280.
- Centropages gracilis*, p. 1013, figg. on pl. xcvi, *calaninus*, p. 1014, figg. on pl. xcvi, *elongatus*, p. 1014, figg. on pl. xcvi, *orsinii*, p. 1015, figg. on pl. xcvi, *furcatus*, p. 1016; WOLFENDEN, Fauna Maldive ii, Suppl. i.
- Chirundina angulata*, N. Atlantic, p. 13; SARS, Bull. Mus. Monaco xxvi, n. sp.
- Chondracanthus depressus* and var. *oblongus* n. var. on *Pleuronectes flesus*, E. Scotland, p. 114, pl. vi, figg. 7-17; T. SCOTT, Rep. Fish. Board Scotland xxiii, Pt. iii, n. sp.
- Cletodes sarsi*, Firth of Forth, p. 146, pl. xii, figg. 1-9; T. SCOTT, t. c. n. sp.
- Cornucalanus* n. g. (near *Xanthocalanus*), p. 20, *magnus* (locality?), p. 21, pl. vii, *simplex* (locality?), p. 22; WOLFENDEN, Plankton Studies i, n. spp.
- Corycaeus*, notes on spp., p. 1026, figg. on pl. xcix; WOLFENDEN, Fauna Maldive ii, Suppl. i.
- Cyclopidae*, figg. of various spp. with notes in Russian; LEBEDĪNSKIĪ, Zapiski Novoross. Obshch. xxv (2).
- Cyclopina pusilla*, Chatham Ids., p. 399, pl. xix, figg. 150-161; SARS, Zool. Jahrb. Syst. xxi, n. sp.
- Cyclops phaleratus*, p. 132, pl. viii, fig. 1, *anceps*, p. 133, pl. viii, figg. 2-4, *prasinus*, p. 134, pl. viii, fig. 5, *varicans* var. *furcatus* n. var., p. 135, pl. viii, figg. 6-11, *macrurus*, p. 137, pl. viii, figg. 12, 21, 28, 29, *mendocinus*, p. 138, pl. viii, fig. 17, *albidus*, p. 139, pl. viii, figg. 13 & 14, *annulatus*, p. 139, pl. viii, figg. 15 & 16, *dybowskii*, p. 140, pl. viii, figg.

- 18-20, *spinifer*, p. 141, pl. viii, figg. 22-27, pl. ix, figg. 1 & 2, *strenuus*, p. 142, pl. ix, figg. 3 & 4; DADAY, Zoologica xviii (44): *C. nanus*, p. 44, pl. ii, figg. 6-9; SCOURFIELD, J. Quekett Club (2) ix (1904): *C.*, notes on spp., breeding habits etc.; WOLF, Zool. Jahrb. Syst. xxii, pp. 101-280.
- Cylindropsyllus brevicornis*, Ryckflusse, p. 437, figg. 8-10; DOUWE, Zool. Anz. xxviii, n. sp.
- Dactylopodella* n. g. (*Thalestrida*), p. 131, *flava*, p. 132, pl. lxxxix; SARS, Crust. Norway v.
- Dactylopus maldivensis*, Maldive Ids., p. 1031, figg. on pl. xcix; WOLFENDEN, Fauna Maldive ii, Suppl. i, n. sp.
- Dactylopusia*, p. 125, *thisboides*, p. 126, pl. lxxvii & lxxviii, fig. 1, *vulgaris* n. nom. for *strömi* Claus, p. 128, pl. lxxxix, fig. 1, *brevicornis*, p. 130, pl. lxxx; SARS, Crust. Norway v.
- D. valida*, p. 293, *ornata*, p. 294, *purpurocincta*, p. 295, S. England; NORMAN & SCOTT, Ann. Nat. Hist. (7) xv: *D. neglecta*, p. 127, pl. lxxviii, fig. 2, *micronyx*, p. 129, pl. lxxxix, fig. 2, Norway; SARS, Crust. Norway v: n. spp.
- Delavalia pygmaea*, off Northumberland, p. 214, pl. iii, figg. 5-10; BRADY, Tr. Soc. Northumb. (n. s.) i: *D. normani*, British Seas, p. 569; SCOTT, Ann. Nat. Hist. (7) xvi: n. spp.
- Diaptomus conifer*, p. 147, pl. ix, fig. 10; DADAY, Zoologica xviii (44): *D. blanci*, p. 687, pl. xxv, figg. 9-11, *pectinicornis*, p. 690, pl. xxv, figg. 12-14; VAN DOUWE, Zool. Jahrb. Syst. xxii: *D.*, notes on spp., breeding habits etc.; WOLF, Zool. Jahrb. Syst. xxii, pp. 101-280.
- D. falcifer*, p. 148, pl. ix, figg. 11-15, *anisitsi*, p. 149, pl. ix, figg. 16-22, Paraguay; DADAY, Zoologica xviii (44), n. spp.
- Dichelestium sturionis*, p. 111, pl. v, figg. 17-24, pl. vi, figg. 1-6; T. SCOTT, Rep. Fish. Board Scotland xxiii, Pt. iii.
- Doropygus pulex*, p. 2, pl. iv, figg. 10-12; BRIAN, Annuar. Mus. Univ. Napoli i (24).
- Dyspontius curticaudatus*, Firth of Forth, p. 148, pl. xiii, figg. 1-10; T. SCOTT, Rep. Fish. Board Scotland xxiii, Pt. iii, n. sp.
- Echetus typicus*, p. 611, pl. xvii; WILSON, P. U. S. Mus. xxviii.
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- Euchaeta marina*, p. 1007, figg. on pl. c, var., p. 1008, fig. on pl. c, *concinna*, p. 1008, figg. on pl. c; WOLFENDEN, Fauna Maldive ii, Suppl. i.
- E. tumidula*, p. 15, *porrecta*, p. 16, *gracilis*, p. 16, *incisa*, p. 17, N. Atlantic; SARS, Bull. Mus. Monaco xxvi: *E. indica*, Maldive Ids., p. 1008, figg. on pl. c; WOLFENDEN, Fauna Maldive ii, Suppl. i: n. spp.
- Euchirella rostrata* var. *magnus* [? n. var.], p. 18, *venusta*, p. 18, *brevis*, p. 18, *atlantica*, p. 20; WOLFENDEN, Plankton Studies i: *E. bella* var. *bella*, p. 1006, figg. on pl. xcvi; WOLFENDEN, Fauna Maldive ii, Suppl. i.
- E. brevis*, N. Atlantic, p. 12; SARS, Bull. Mus. Monaco xxvi: *E. hirsuta*, p. 17, pl. vi, *maxima*, p. 18, pl. vi, *elongata*, p. 19, pl. vi, *spinosa*, p. 19, pl. vi, Atlantic; WOLFENDEN, Plankton Studies i: n. spp.
- Eudactylina nigra*, Massachusetts, p. 131; WILSON, P. Soc. Washington xviii, n. sp.
- Euryte longicauda* var. *minor* n. var., p. 143, pl. x, figg. 13 & 14; T. SCOTT, Rep. Fish. Board Scotland xxiii, Pt. iii.
- Eurytemora herdmanni* var. *minor* n. var., p. 49, pl. ii, figg. 1 & 2; T. SCOTT, Tr. Soc. Glasgow vii (1).
- Euterpe acutifrons*, p. 1034, figg. on pl. xcix; WOLFENDEN, Fauna Maldive ii, Suppl. i.
- Gaëtanus holti*, W. of Ireland, p. 33, pl. vi, figg. 1-12, as n. sp., identified with *G. latifrons* Sars, in Addendum; FARRAN, Rep. Fish. Ireland 1902-03, Pt. ii.

- G. minor*, W. of Ireland, p. 34, pl. v, figg. 1-11; FARRAN, t. c. : *G. latifrons*, p. 11, *curvicornis*, p. 11, *robustus*, p. 11, *inermis*, p. 12, N. Atlantic; SARS, Bull. Mus. Monaco xxvi : *G. antarctica*, Antarctic, p. 7, pl. iii, *longispinus*, Atlantic, p. 7, pl. iii; WOLFENDEN, Plankton Studies i : **n. spp.**
- Gaidius affinis*, p. 9, *notacanthus*, p. 9, *cryptospinus*, p. 10, *divaricatus*, p. 10, N. Atlantic; SARS, Bull. Mus. Monaco xxvi : *G. intermedius*, Antarctic, p. 6, pl. iii; WOLFENDEN, Plankton Studies i : **n. spp.**
- Gaussia n. g.* (near *Metridia*) *scotti* (as "nov. sp." in error), p. 5, pl. ii; WOLFENDEN, t. c.
- Gloiopotes ornatus*, Woods Holl, p. 127; WILSON, P. Soc. Washington xviii, **n. sp.**
- Halicyclops propinquus*, Chatham Ids., p. 395, pl. xviii, figg. 135-149; SARS, Zool. Jahrb. Syst. xxi, **n. sp.**
- Halithalestris n. g.* (*Thalestridae*), p. 117, *croni*, p. 118, pl. lxxii; SARS, Crust. Norway v.
- Haloptilus spiniceps*, p. 1010, pl. xvi, fig. 45; WOLFENDEN, Fauna Maldive ii, Suppl. i.
- H. ocellatus*, S. Atlantic, p. 14, pl. v; WOLFENDEN, Plankton Studies i, **n. sp.**
- Harpacticus fulvus*, phototropism etc.; BOHN, C.R. Soc. Biol. lix, 1905 (37), pp. 650-652 : *H. uniremis*, p. 147, pl. x, fig. 20; T. SCOTT, Rep. Fish. Board Scotland xxiii, Pt. iii.
- Hatschekia (Clavella) obesa* [? **n. sp.**], p. 217, pl. xiii, figg. 1 & 1a, text-fig. 1, *H. (Cycnus) pagellii* [? err. for *pagelli*] *bogueravei*, p. 218, pl. xiii, figg. 2-2c, text-fig. 2; GOGGIO, Arch. zool. ital. ii.
- H. cernæ*, on *Cerna gigas*, Palermo, p. 219, pl. xiii, fig. 3, text-fig. 3, *richiardi* on *Labrus merula*, Pisa, p. 222, pl. xiii, fig. 4, text-fig. 4; GOGGIO, t. c. **n. spp.**
- Herrmannella parva*, Plymouth, p. 299; NORMAN & SCOTT, Ann. Nat. Hist. (7) xv, **n. sp.**
- Hersiliodes pelseneeri*, p. 278; PÉREZ, C.R. Soc. Biol. lviii.
- Heterocope weismanni*, breeding habits etc.; WOLF, Zool. Jahrb. Syst. xxii, pp. 101-280.
- Heterorhabdus*, notes on spp., p. 44; FARRAN, Rep. Fish. Ireland 1902-03, Pt. ii : *H. grandis*, p. 8, pl. iv, *grimaldi*, p. 10, pl. iv, *major*, p. 11, pl. iv, *brevicornis*, p. 11, *profundus*, p. 12, pl. iv, *austrinus*, p. 13, pl. iv; WOLFENDEN, Plankton Studies ii.
- H. latus*, N. Atlantic, p. 9; SARS, Bull. Mus. Monaco xl : *H. brevicaudatus*, p. 12, pl. iv, *atlanticus*, p. 13, Atlantic; WOLFENDEN, Plankton Studies i : **n. spp.**
- Homoiotes n. g.* (*Caligidæ*) *palliata* (loc.?), p. 661, pl. xxix; WILSON, P. U. S. Mus. xxviii, **n. sp.**
- Idya*, p. 87, *furcata*, p. 88, pls. li & lii, fig. 1, *minor*, p. 90, pl. lii, fig. 2, *ensifera*, p. 90, pl. liii, fig. 1, *longicornis*, p. 92, pl. liv, fig. 1, *gracilis*, p. 94, pl. lv, fig. 1; SARS, Crust. Norway v.
- I. tenera*, p. 91, pl. liii, fig. 2, *elegantula*, p. 93, pl. liv, fig. 2, *angusta*, p. 95, pl. lv, fig. 2, *finmarchica*, p. 96, pl. lvi, Norway; SARS, t. c. **n. spp.**
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- Idyopsis n. g.* (*Idyidae*), p. 97, *dilatata*, p. 98, pl. lvii, fig. 1, *pusilla*, p. 99, pl. lvii, fig. 2, Norway; SARS, t. c. **n. spp.**
- Labidocera æstiva*, p. 49, pl. ii, figg. 3 & 4; T. SCOTT, Tr. Soc. Glasgow vii (1) : *L. kroyeri* var. *similis n. var.*, p. 1016, figg. on pl. xcvi, *wollastoni*, p. 1017, figg. on pl. xcvi, *de truncata* var., p. 1017, figg. on pl. xcvi, *minuta*, p. 1018, figg. on pl. xcvi, *laevidentata*, p. 1019, figg. on pl. xcvi; WOLFENDEN, Fauna Maldive ii, Suppl. i.
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- Jahrb. Syst. xxii : *L. mohammed*, distribution, p. 347 ; ZYKOFF, Zool. Anz. xxix.
- L. chathamensis*, p. 391, pl. xvii, figg. 103-118, *exigua*, pl. xviii, figg. 119-134, Chatham Ids. ; SARS, Zool. Jahrb. Syst. xxi : *L. longiremis*, Firth of Forth, p. 145, pl. xi, figg. 10-20 ; T. SCOTT, Rep. Fish. Board Scotland xxiii, Pt. iii : **n. spp.**
- Laophontina n. g.* (near *Laophonte*) *dubia*, Scilly Ids., p. 292 ; NORMAN & SCOTT, Ann. Nat. Hist. (7) xv, **n. sp.**
- Longipedia coronata*, p. 143, pl. x, figg. 15-17 ; T. SCOTT, Rep. Fish. Board Scotland xxiii, Pt. iii.
- Lophothrix humilifrons*, N. Atlantic, p. 22 ; SARS, Bull. Mus. Monaco xxvi, **n. sp.**
- Lovenula mea*, Orange River Colony, p. 300, pl. xviii, figg. 7-13 ; GURNEY, P. Zool. Soc. London 1904, ii (2) 1905, **n. sp.**
- Lepeophtheirus sturionis*, p. 110, pl. v, figg. 7-14 ; T. SCOTT, Rep. Fish. Board Scotland xxiii, Pt. iii : *L. thompsoni*, p. 619, pl. xviii, figg. 212-219, *nordmannii*, p. 623, pl. xix, *hippoglossi*, pl. xx, text-fig. 6, *salmonis*, p. 640, pl. xxiv, *pacificus*, p. 642, pl. xxv, figg. 304-310, *cosyphi*, p. 644, pl. xxv, figg. 311-313, *robustus*, p. 646, pl. xxv, figg. 314 & 315 ; WILSON, P. U. S. Mus. xxviii.
- L. longipes*, p. 618, pl. xviii, figg. 206-211 & 222, *edwardsi*, p. 627, pls. xxi & xxii, fig. 258 & text-figg., *dissimulatus*, p. 631, pl. xxii, *parviventris*, p. 635, pl. xxiii, figg. 275-284, *bifurcatus*, p. 637, pl. xxiii, figg. 285-293, N. America, *innominatus*, England, p. 656, pl. xxviii, figg. 345-352, *chilensis*, Chile, p. 658, pl. xxviii, figg. 353-364 ; WILSON, P. U. S. Mus. xxviii, **n. spp.**
- Lernæa lusci*, p. 113, pl. vi, fig. 18 ; T. SCOTT, Rep. Fish. Board Scotland xxiii, Pt. iii.
- Lernæenicus sardinae*, fixation to host ; BAUDOUIN, C.R. Ac. Sci. cxl, p. 326 : *L. encrassicoli*, p. 299 ; BAUDOUIN, Bull. Mus. Paris xi, 1905 (5), pp. 299 & 300 : *L. sprattæ* (?), p. 165 ; CLIGNY, C.R. Soc. Biol. lix, 1905.
- Lubbockia minuta*, W. of Ireland, p. 15 ; WOLFENDEN, Plankton Studies i, **n. sp.**
- Lucicutia atlantica*, p. 44, pl. xiii, figg. 5-10 ; FARRAN, Rep. Fish. Ireland 1902-03, Pt. ii : *L. grandis*, p. 8, pl. ii ; WOLFENDEN, Plankton Studies i.
- L. curta*, W. of Ireland, p. 44, pl. xii, figg. 1-7 ; FARRAN, Rep. Fish. Ireland 1902-03, Pt. ii : *L. gracilis*, p. 8, *intermedia*, p. 8, *aurita*, p. 8, N. Atlantic ; SARS, Bull. Mus. Monaco xl : *L. bicornuta* (locality?), p. 24, pl. ii ; WOLFENDEN, Plankton Studies i : **n. spp.**
- Machairopus*, p. 84, *minutus*, Norway, p. 86, pl. 1 ; SARS, Crust. Norway v, **n. sp.**
- Macrocalanus n. g.* (*Calanidæ*) *longicornis*, N. Atlantic, p. 7 ; SARS, Bull. Mus. Monaco xxvi, **n. sp.**
- Megacalanus princeps*, p. 3, pl. i ; WOLFENDEN, Plankton Studies i.
- M. bradyi*, p. 1, pl. i, W. of Ireland etc. ; WOLFENDEN, t. c. **n. sp.**
- Mesocheres n. g.* (near *Scottocheres*), p. 297, *anglicus*, Plymouth, p. 298 ; NORMAN & SCOTT, Ann. Nat. Hist. (7) xv, **n. sp.**
- Mesochra meridionalis*, Chatham Ids., p. 389, pl. xvii, figg. 87-102 ; SARS, Zool. Jahrb. Syst. xxi, **n. sp.**
- Mesorhabdus n. g.* (*Heterorhabdidae*), *annectens*, N. Atlantic, p. 9 ; SARS, Bull. Mus. Monaco xl, **n. sp.**
- Metaboeckella n. g.* (near *Boeckella*), *dilatata*, p. 603, text-figg. 1 & 2 ; ERMAN, Zool. Anz. xxix.
- Metridia macrura*, N. Atlantic, p. 7 ; SARS, Bull. Mus. Monaco xl, **n. sp.**
- Microsetella rosea*, p. 213, pl. iii, figg. 1-4 ; BRADY, Tr. Soc. Northumb. (n. s.) i.

- Microthalestris* n. g. (*Thalestridae*), p. 122, *forficula*, p. 123, pl. lxxvi; Sars, Crust. Norway v.
- Monacilla* n. g. (*Pseudocalanidae*), p. 8, *typica*, N. Atlantic, p. 9; Sars, Bull. Mus. Monaco xxvi, n. sp.
- Monstrilla* in *Salmacina*, at Port Erin; Ashworth, P. Liverp. biol. Soc. xix, p. 16.
- Mormonilla atlantica*, Atlantic, p. 16; Wolfenden, Plankton Studies i, n. sp.
- Nesippus alatus*, Massachusetts, p. 130; Wilson, P. Soc. Washington xviii, n. sp.
- Nitocra simplex*, p. 435, text-fig. 7; Douwe, Zool. Anz. xxviii: *N. palustris*, p. 519, text-figg. 1-6; Douwe, op. cit. xxix.
- N. muelleri*, Ryckflusse, p. 434, text-figg. 1-6; Douwe, op. cit. xxviii: *N. fragilis*, Chatham Ids., p. 386, pl. xvi, figg. 70-86; Sars, Zool. Jahrb. Syst. xxi: n. spp.
- Oithona rigida*, p. 1023, pl. xcix, fig. 42, *robusta*, p. 1024, figg. on pl. xcix, *linearis*, p. 1025, figg. on pl. xcix; Wolfenden, Fauna Maldive ii, Suppl. i.
- O. tropica*, Maldive Ids., p. 1023, figg. on pl. xcix; Wolfenden, t. c. n. sp.
- Oncæa anglica*, off Northumberland, p. 220, pl. vi, figg. 1-9; Brady, Tr. Soc. Northumb. (n. s.) i, n. sp.
- Onchocalanus* n. g. (*Phaënnidae*), p. 19, *trigoniceps*, p. 20, *hirtipes*, p. 20, N. Atlantic; Sars, Bull. Mus. Monaco xxvi, n. spp.
- Oöthrix* n. g. (*Calanidae*) *bidentata*, W. of Ireland, p. 42, pl. x, figg. 15-18, pl. xi, figg. 1-10; Farran, Rep. Fish. Ireland 1902-03, Pt. ii, n. sp.
- Parabroteas*, def. and notes, p. 598; Ekman, Zool. Anz. xxix.
- Paracalanus parvus*, p. 997, var. *borealis* n. var., p. 997, var. *indicus* n. var., p. 998, pl. xcvi, figg. 7-11, 16, *aculeatus*, p. 998, pl. xcvi, figg. 12-15, var. *plumulosus* n. var., p. 999, pl. xcvi, fig. 23; Wolfenden, Fauna Maldive ii, Suppl. i.
- Parastenhelia anglica*, Cornwall, p. 289; Norman & Scott, Ann. Nat. Hist. (7) xv, n. sp.
- Parathalestris*, p. 110, *clausi*, p. 111, pls. lxv & lxvi, *harpacticoides*, p. 112, pl. lxvii, *hibernica*, p. 113, pl. lxviii, *jacksoni*, p. 114, pl. lxix; Sars, Crust. Norway v.
- Peltidium conspicuum*, Scilly Ids., p. 296; Norman & Scott, Ann. Nat. Hist. (7) xv: *P. elegans*, Maldive Ids., p. 1033, figg. on pl. xcix; Wolfenden, Fauna Maldive ii, Suppl. i: n. spp.
- Pennella balænopterae*, p. 80, text-fig. 3; Anthony & Calvet, Bull. Soc. Philom. vii (2): *P. filosa*, post-larval stages; Thompson, Biol. Bull. viii, pp. 296-307, 6 text-figg.: *P. balænopterae*, anatomy; Turner, P. R. Soc. Edinb. xxv, p. 480, and Tr. R. Soc. Edinb. xli (2), pp. 409-434, 4 pls.: *P. orthagorisci*, p. 119; Stebbing, S. African Crust. iii.
- Phyllopus bidentatus*, p. 45, pl. xi, figg. 12-21; Farran, Rep. Fish. Ireland 1902-03, Pt. ii.
- Phyllothalestris* n. g. (*Thalestridae*), p. 115, *mysis*, p. 116, pls. lxx & lxxi; Sars, Crust. Norway v.
- Pleuromamma abdominalis*, p. 1011, figg. on pl. xcvi, *ziphias*, p. 1012, figg. on pl. xcvi, *robusta*, p. 1012, figg. on pl. xcvi; Wolfenden, Fauna Maldive ii, Suppl. i.
- P. indica*, Maldive Ids., p. 1011, figg. on pl. xcvi; Wolfenden, t. c. n. sp.
- Pontella spinipes*, p. 1020, *mediterranea* var. *indica* n. var., p. 1021; Wolfenden, t. c.
- Pontellopsis krümeri*, p. 1021, figg. on pl. xcvi, *armata*, p. 1022, figg. on pl. xcix; Wolfenden, t. c.
- Pontoptilus* n. g. (*Augaptilidae*), p. 18, *mucronatus*, p. 18, *muticus*, p. 19, *robustus*, p. 19, *abbreviatus*, p. 19, *attenuatus*, p. 20, *acutilobus*, p. 21, N. Atlantic; Sars, Bull. Mus. Monaco xl, n. spp.

- Poppella guernei*, p. 692, pl. xxv, figg. 15-17; VAN DOUWE, Zool. Jahrb. Syst. xxii. [See also *Calanipeda*.]
- Porcellidium tuberculatum*, Maldive Ids., p. 1034, figg. on pl. xcix; WOLFENDEN, Fauna Maldive ii, Suppl. i, n. sp.
- Psamathe*, p. 82, *longicauda*, p. 83, pl. xlix; SARS, Crust. Norway v.
- Pseudeuchæta* n. g. (*Euchætidæ*) *brevicauda*, N. Atlantic, p. 18; SARS, Bull. Mus. Monaco xxvi, n. sp.
- Pseudoboeckella*, def., notes, and list of spp.; EKMAN, Zool. Anz. xxix.
- Pseudocyclopia giesbrechti*, p. 141, pl. x, figg. 1-9; T. SCOTT, Rep. Fish. Board Scotland xxiii, Pt. iii.
- Rhynchothalestris* n. g. (*Thalestridæ*), p. 119, *rufocincta*, p. 120, pls. lxxiii & lxxiv, *helgolandica*, p. 121, pl. lxxv; SARS, Crust. Norway v.
- Saphirella tropica*, Maldive Ids., p. 1030, figg. on pl. xcix; WOLFENDEN, Fauna Maldive ii, Suppl. i, n. sp.
- Sapphirina salpæ*, p. 2, pl. iv, fig. 9; BRIAN, Annuar. Mus. Univ. Napoli i (24).
- Schizopera* n. g. (*Diosaccidæ*), p. 383, *longicauda*, Chatham Ids., p. 384, pl. xvi, figg. 53-69; SARS, Zool. Jahrb. Syst. xxi, n. sp.
- Scolecithricella gracilis*, N. Atlantic, p. 21; SARS, Bull. Mus. Monaco xxvi, n. sp.
- Scolecithrix chelifer*, p. 36, pl. vii, figg. 18 & 19; FARRAN, Rep. Fish. Ireland 1902-03, Pt. ii.
- S. emarginata*, p. 36, pl. vii, figg. 6-17, *ovata*, p. 37, pl. vi, figg. 13-18, pl. vii, figg. 1-5, *echinata*, p. 37, pl. iv, figg. 15-18, pl. v, figg. 12-17, W. of Ireland; FARRAN, t. c. n. spp.
- Scottocalanus* n. g. (*Scolecithricidæ*) *acutus*, N. Atlantic, p. 7; SARS, Bull. Mus. Monaco xl, n. sp.
- Scottula abyssalis*, N. Atlantic, p. 22; SARS, t. c. n. sp.
- Sphæronella minuta*, p. 149, pl. xii, fig. 18, pl. xiii, fig. 16, var. *valida* n. var., p. 149, pl. xiii, figg. 17-20; T. SCOTT, Rep. Fish. Board Scotland xxiii, Pt. iii.
- S. aoræ*, on *Aora gracilis*, Dornoch Firth, *vararensis*, on *Megaluropus agilis*, Moray Firth, p. 150, pl. xiii, figg. 12-15; T. SCOTT, t. c. n. spp.
- Spinocalanus magnus*, p. 30, pl. iii, figg. 1-12; FARRAN, Rep. Fish. Ireland 1902-03, Pt. ii.
- Stenhelia meeki*, off Northumberland, p. 216, pl. iv, figg. 7-16; BRADY, Tr. Soc. Northumb. (n. s.) i: *S. pygmaea*, p. 284, *simulans*, p. 285, *neglecta*, p. 286, *varians*, p. 287, *longirostris*, p. 288, British coasts; NORMAN & SCOTT, Ann. Nat. Hist. (7) xv: n. spp.
- Tetragoniceps bradyi*, p. 217, pl. v, figg. 1-10; BRADY, Tr. Soc. Northumb. (n. s.) i.
- Thalestris*, p. 103, *longimana*, p. 104, pls. lix & lx, *gibba*, p. 105, pl. lxi, *rufoviolacens*, p. 107, pl. lxii; SARS, Crust. Norway v.
- T. robusta*, p. 218, pl. v, figg. 11-17, *denti*, p. 218, pl. vi, figg. 10-15, off Northumberland; BRADY, Tr. Soc. Northumb. (n. s.) i: *T. brunnea*, p. 108, pl. lxiii, *purpurea*, p. 109, pl. lxiv, Norway; SARS, Crust. Norway v: n. spp.
- Thaumaleus tropicus*, Maldive Ids., p. 1025, figg. on pl. xcix; WOLFENDEN, Fauna Maldive ii, Suppl. i, n. sp.
- Thompsonula* n. g. for *Jonesiella hyænae* Thompson, p. 570; SCOTT, Ann. Nat. Hist. (7) xvi.
- Undeuchæta obtusa*, p. 13, *pustulifera*, p. 14, *scopularis*, p. 14, *dubia*, p. 15, N. Atlantic; SARS, Bull. Mus. Monaco xxvi, n. spp.
- Valdiviella brevicornis*, N. Atlantic, p. 17; SARS, t. c. n. sp.
- Wolterstorffia blanchardi*, p. 683, pl. xxv, figg. 1-6; VAN DOUWE, Zool. Jahrb. Syst. xxii.
- Xanthocalanus borealis*, p. 38, pl. viii, figg. 14-17; FARRAN, Rep. Fish. Ireland 1902-03, Pt. ii.

Xanthocalanus greeni, p. 39 (and addendum), pl. viii, figg. 1-13, *pinguis*, p. 39, pl. viii, figg. 18-24, pl. ix, figg. 1-6, *obtusus*, p. 40, pl. ix, figg. 10-19, sp.?, p. 41, pl. ix, figg. 7-9, pl. xi, fig. 11, W. of Ireland; FARRAN, t. c. : *X. muticus*, N. Atlantic, p. 19; SARS, Bull. Mus. Monaco xxvi : **n. spp.**

3. BRANCHIURA.

[See also T. SCOTT (272).]

Branchiura, Notes on British spp.; SCOURFIELD, J. Quekett Club (2) ix, p. 40.

Argulus, notes on spp.; WILSON, Bull. Bureau Fisheries xxiv, pp. 117-131, text-figg.

4. OSTRACODA.

[See also BUCHINSKAIIO (47), CHUN (71), HUBER (141), †HUCKE (142), †JONKER (151), †KAZANSKIĪ (156), LEBEDĪNSKIĪ (166), MONTI (185), T. SCOTT (266), †SHIMER (281), MEISSNER (181).]

Ostracoda, list of marine and freshwater species from Ireland with notes on synonymy etc.; NORMAN, Irish Natural. xiv.

Ostracoda, list of British freshwater spp. with notes; SCOURFIELD, J. Quekett Club (2) ix, pp. 29-44.

Anchistrocheles bradyi, p. 373, pl. i, figg. 34 & 35, Gulf of Manaar; A. SCOTT, Rep. Ceylon Pearl Fisheries iii, **n. sp.**

†*Aparchites* (?) *anderssoni*, p. 45, pl. i, figg. 25-28, *fennicus*, p. 46, pl. iii, fig. 51, Silurian, N. Baltic region; WIMAN, Bull. Geol. Inst. Upsala vi, **n. spp.**

Bairdia inornata, p. 372, pl. i, figg. 11 & 12, *robusta*, p. 373, pl. i, figg. 13 & 14, Gulf of Manaar; A. SCOTT, Rep. Ceylon Pearl Fisheries iii, **n. spp.**

†*B. foveolata* (?), p. 272; CHAPMAN, P. Linn. Soc. N. S. Wales cxviii.

†*B.* (?) *tenuis*, Oligocene, Mainz, p. 30, pl. ii, fig. 14; LIENENKLAUS, Ber. Senckenberg. Ges. 1905, **n. sp.**

†*Beyrichia dagon*, p. 918, pl. v, figg. 12-14; LOOMIS, Bull. N. York Mus. lxi.

†*B. argentina*, Devonian, Argentine, p. 250, pl. xi, fig. 4; THOMAS, Zeitschr. Deutsch. geol. Ges. lvii (2), **n. sp.**

†*Beyrichona gevalensis*, p. 46, pl. i, figg. 29, 30 & 35, *faba*, p. 47, pl. iii, fig. 52, (?) *alta*, p. 47, pl. iii, fig. 53, Silurian, N. Baltic region; WIMAN, Bull. Geol. Inst. Upsala vi, **n. spp.**

†*Bradورونا nitida*, Silurian, N. Baltic region, p. 48, pl. i, figg. 34, 36, 37; WIMAN, t. c. **n. sp.**

Candona parva, Paraguay, p. 258, pl. xvi, figg. 27-29, pl. xvii, figg. 1-7; DADAY, Zoologica xviii (44), **n. sp.**

†*C. rostrata*, p. 329, pl. viii, figg. 8-11, text-fig. 2, *fabæformis*, p. 330, pl. viii, figg. 12-14, text-fig. 3; SIEBER, Jahresh. Ver. Württemb. lxi.

†*C. candidula*, p. 21, pl. i, fig. 5, *recta*, p. 22, pl. i, fig. 6, *rhenana*, p. 23, pl. i, fig. 7, Tertiary, Mainz; LIENENKLAUS, Ber. Senckenberg. Ges. 1905: †*C. steinheimensis*, Tertiary, Württemberg, p. 327, pl. viii, figg. 1-7, text-fig. 1; SIEBER, Jahresh. Ver. Württemb. lxi : **n. spp.**

Candonopsis anisitsi, Paraguay, p. 256, pl. xvi, figg. 16-26; DADAY, Zoologica xviii (44), **n. sp.**

†*C. arida*, Tertiary, Württemberg, p. 332, pl. viii, figg. 15-19, text-fig. 4; SIEBER, Jahresh. Ver. Württemb. lxi, **n. sp.**

Codonocera cruenta, p. 367, pl. ii, figg. 43-45; A. SCOTT, Rep. Ceylon Pearl Fisheries iii.

- †*Cuneocythere punctulata*, Oligocene, Mainz, p. 48, pl. iv, fig. 25; LIENENKLAUS, Ber. Senckenberg. Ges. 1905, n. sp.
- †*Cyclocypris* sp., p. 346, text-fig. 16; SIEBER, Jahresh. Ver. Wurttemb. lxi.
- †*C. similis*, Tertiary, Mainz, p. 18, pl. i, fig. 3; LIENENKLAUS, Ber. Senckenberg. Ges. 1905: †*C. nitida*, Tertiary, Württemberg, p. 333, text-fig. 5; SIEBER, Jahresh. Ver. Wurttemb. lxi : n. spp.
- Cypria pellucida*, p. 255, pl. xvi, figg. 10–15; DADAY, Zoologica xviii (44).
- C. denticulata*, Paraguay, p. 254, pl. xvi, figg. 5–9; DADAY, t. c. n. sp.
- †*C. curvata*, Miocene, Mainz, p. 19, pl. i, fig. 4; LIENENKLAUS, Ber. Senckenberg. Ges. 1905: †*C. suborbicularis*, Tertiary, Württemberg, p. 334, pl. viii, figg. 20–22, text-fig. 6; SIEBER, Jahresh. Ver. Wurttemb. lxi : n. spp.
- Cypridina mediterranea*, female reproductive organs; RAMSCH, Zool. Anz. xxix, pp. 133–136, 1 text-fig.
- Cypridopsis villosa* var. *crassipes* n. var., p. 125, *dubia* n. nom. for *villosa*, partim, p. 125; MASI, Boll. Soc. zool. Ital. (2) vi.
- †*C. sp.*, p. 345, text-fig. 15; SIEBER, Jahresh. Ver. Wurttemb. lxi.
- †*C. kinkelini*, Miocene, Mainz, p. 27, pl. ii, fig. 12; LIENENKLAUS, Ber. Senckenberg. Ges. 1905: †*C. gracilis*, Tertiary, Württemberg, p. 339, pl. ix, figg. 5–9, text-fig. 10; SIEBER, Jahresh. Ver. Wurttemb. lxi : n. spp.
- Cyprinotus americanus*, Nantucket, p. 791, pl. i; CUSHMAN, Amer. Natural. xxxix, n. sp.
- Cypris bispinosa*, p. 243; MASI, Monit. Zool. ital. xvi: *C. incongruens* var. *rosea* n. var., p. 122, *kaufmanni* n. nom. for *reptans* Kauf., and var. *limbata* n. var., p. 123, *intermedia* var. *latialis* n. var., p. 124; MASI, Boll. Soc. zool. Ital. (2) vi.
- C. vinciguerræ*, Rome, p. 241; MASI, Monit. Zool. ital. xvi: *C. onusta*, Rome, p. 119, text-figg. 1 & 2; MASI, Boll. Soc. zool. Ital. (2) vi : n. spp.
- †*C. (Cyprinotus) salina*, p. 336, pl. viii, figg. 25–27, text-fig. 8, *C. sp.*, p. 345, text-fig. 14; SIEBER, Jahresh. Ver. Wurttemb. lxi.
- †*C. agglutinans*, p. 24, pl. i, fig. 8, *acuta*, p. 25, pl. ii, fig. 9, *parva*, p. 26, pl. ii, fig. 10, *frankofurti*, p. 26, pl. ii, fig. 11, Tertiary, Mainz; LIENENKLAUS, Ber. Senckenberg. Ges. 1905: †*C. risgoviensis*, pp. 335 & 346, pl. viii, figg. 23 & 24, text-figg. 7 & 16, *inaequalis*, p. 337, pl. ix, figg. 1–4, text-fig. 9, Tertiary, Württemberg; SIEBER, Jahresh. Ver. Wurttemb. lxi : n. spp.
- Cythere knoxi*, p. 377, pl. ii, figg. 9 & 10, *chalmersi*, p. 378, pl. ii, figg. 11 & 12, *imthurni*, p. 378, pl. ii, figg. 13 & 14, *thompsoni*, p. 379, pl. ii, figg. 15 & 16, *donnani*, p. 379, pl. ii, figg. 17 & 18, *willeyi*, p. 379, pl. ii, figg. 19 & 20, *hornelli*, p. 380, pl. ii, figg. 21 & 22, *halyi*, p. 380, pl. ii, figg. 23 & 24, *kelaarti*, p. 380, pl. ii, figg. 25 & 26, *willisi*, p. 380, pl. ii, figg. 27 & 28, *colletti*, p. 381, pl. ii, figg. 29 & 30, *holdsworthi*, p. 381, pl. ii, figg. 31 & 32, Gulf of Manaar; A. SCOTT, Rep. Ceylon Pearl Fisheries iii, n. spp.
- †*Cythereis ramosa*, p. 32, pl. iii, fig. 16, Tertiary, Mainz; LIENENKLAUS, Ber. Senckenberg. Ges. 1905, n. sp.
- Cytherella ondaatjei*, p. 382, pl. ii, figg. 33 & 34, *vraspillaii*, p. 382, pl. ii, figg. 35 & 36, Gulf of Manaar; A. SCOTT, Rep. Ceylon Pearl Fisheries iii, n. spp.
- †*Cytheridea præsulcata*, p. 39, pl. iii, fig. 17, *rarefistulosa*, p. 41, pl. iii, fig. 18, *miocænica*, p. 42, pl. iii, fig. 19, *devexa*, p. 43, pl. iii, fig. 20, *parallela*, p. 45, pl. iv, fig. 21, *fragilis*, p. 46, pl. iv, fig. 22, *spathacea*, p. 46, pl. iv, fig. 23, *minuta*, p. 47, pl. iv, fig. 24, *spandeli*, p. 65, Tertiary, Mainz; LIENENKLAUS, Ber. Senckenberg. Ges. 1905, n. spp.
- Cytheridella* n. g. (*Cytheridæ*), p. 261, *ilosvayi*, Paraguay, p. 262, pl. xvii, figg. 15–18, pl. xviii, figg. 1–11; DADAY, Zoologica xviii (44), n. sp.

- †*Cytheropteron punctulatum*, Oligocene, p. 56, pl. iv, fig. 30; LIENENKLAUS, Ber. Senckenberg. Ges. 1905, n. sp.
- Cytherura concinna*, Gulf of Manaar, p. 376, pl. ii, figg. 7 & 8; A. SCOTT, Rep. Ceylon Pearl Fisheries iii, n. sp.
- †*C. sulcata*, p. 55, pl. iv, fig. 29, Tertiary, Mainz; LIENENKLAUS, Ber. Senckenberg. Ges. 1905, n. sp.
- †*Entomis prosephina*, Upper Devonian, New York, p. 918, pl. v, figg. 10 & 11; LOOMIS, Bull. N. York Mus. lxi, n. sp.
- Erythrocypris herdmani*, Gulf of Manaar, p. 372, pl. i, figg. 15 & 16; A. SCOTT, Rep. Ceylon Pearl Fisheries iii, n. sp.
- Eucandona cyproides*, Paraguay, p. 260, pl. xvii, figg. 8-14; DADAY, Zoologica xviii (44), n. sp.
- Eucypris bennelong*, p. 247; DADAY, t. c.
- E. areguensis*, p. 243, pl. xv, figg. 11-13, *anisitsi*, p. 244, pl. xv, figg. 14-22, *tenuis*, p. 246, pl. xvi, figg. 1-4, Paraguay; DADAY, t. c. n. spp.
- †*Eucytherura dentata*, Oligocene, Mainz, p. 57, pl. iv, fig. 31; LIENENKLAUS, Ber. Senckenberg. Ges. 1905, n. sp.
- †*Hipponicharion matthewi*, Silurian, N. Baltic region, p. 49, pl. i, figg. 40-44; WIMAN, Bull. Geol. Inst. Upsala vi, n. sp.
- Ilyocypris decipiens*, Rome, p. 127; MASI, Boll. Soc. zool. Ital. (2) vi, n. sp.
- †*Iliocypris bradyi*, p. 340, pl. ix, fig. 10, text-fig. 11; SIEBER, Jahresh. Ver. Wurttemb. lxi.
- †*I. tribullata*, p. 28, pl. ii, fig. 13, *tuberculata*, p. 28, pl. iii, fig. 15, Tertiary, Mainz; LIENENKLAUS, Ber. Senckenberg. Ges. 1905: †*I. binocularis*, Tertiary, Württemberg, p. 341, pl. ix, figg. 11, 18 & 19, text-fig. 12; SIEBER, Jahresh. Ver. Wurttemb. lxi: n. spp.
- †*Indiana* (?) *minima*, Silurian, N. Baltic region, p. 48, pl. i, figg. 38 & 39; WIMAN, Bull. Geol. Inst. Upsala vi, n. sp.
- †*Leperditia limatula*, Ordovician, Valcour Id., p. 380; RAYMOND, Amer. J. Sci. xx, n. sp.
- †*Limnocythere zinndorfi*, Oligocene, Mainz, p. 58, pl. iv, figg. 32 & 33, LIENENKLAUS, Ber. Senckenberg. Ges. 1905: †*L. esphigmene*, Tertiary, Württemberg, p. 343, pl. ix, figg. 12-17, text-fig. 13; SIEBER, Jahresh. Ver. Wurttemb. lxi: n. spp.
- Loxococoncha punctata*, p. 401, pl. xix, figg. 162-172; SARS, Zool. Jahrb. Syst. xxi.
- †*L. intorta*, p. 52, pl. iv, fig. 26, *sphenoides*, p. 52, pl. iv, fig. 27, Tertiary, Mainz; LIENENKLAUS, Ber. Senckenberg. Ges. 1905, n. spp.
- Paracypris tenuis*, Chatham Ids., p. 404, pl. xx, figg. 173-186; SARS, Zool. Jahrb. Syst. xxi, n. sp.
- Paracytheridea perplexa*, Gulf of Manaar, pl. i, figg. 26 & 27; A. SCOTT, Rep. Ceylon Pearl Fisheries iii, n. sp.
- Paradoxostoma attenuatum*, p. 374, pl. i, figg. 32 & 33, *stebbingi*, p. 374, pl. ii, figg. 1 & 2, Gulf of Manaar; A. SCOTT, t. c. n. spp.
- Pontocypris robusta*, p. 370, pl. i, figg. 17 & 18, *elegans*, p. 371, pl. i, figg. 19 & 20, *rostrata*, p. 371, pl. i, figg. 21 & 22, *tumida*, p. 371, pl. i, figg. 30 & 31, Gulf of Manaar; A. SCOTT, t. c. n. spp.
- †*P. brevis*, p. 16, pl. i, fig. 1, *splendida*, p. 16, pl. i, fig. 2, Oligocene, Mainz; LIENENKLAUS, Ber. Senckenberg. Ges. 1905, n. spp.
- †*Primitia latimarginata*, Ordovician, Chazy, p. 380; RAYMOND, Amer. J. Sci. xx, n. sp.
- Pseudocythere minuta*, Gulf of Manaar, p. 373, pl. i, figg. 28 & 29; A. SCOTT, Rep. Ceylon Pearl Fisheries iii, n. sp.
- Sarsiella carinata*, p. 368, pl. i, figg. 1 & 2, pl. ii, figg. 40 & 41, *gracilis*, p. 368, pl. i, figg. 3 & 4, pl. ii, fig. 37, *similis*, p. 368, pl. i, figg. 5 & 6, pl. ii, fig. 38, *crispata*, p. 369, pl. i, figg. 7 & 8, pl. ii, fig. 39, *tumida*, p. 369, pl. i, figg. 9 & 10, pl. ii, fig. 42, Gulf of Manaar; A. SCOTT, t. c. n. spp.

- †*Sellula* [? n. g.] *fallax*, Silurian, N. Baltic region, p. 48, pl. i, figg. 31 & 32; WIMAN, Bull. Geol. Inst. Upsala vi, n. sp.
Xestoleb[e]ris squamigera, p. 375, pl. i, figg. 23-25, pl. ii, figg. 28 & 29, *irrasa*, p. 375, pl. ii, figg. 5, 6, 46 & 47, *tumida*, p. 375, pl. ii, figg. 3 & 4, Gulf of Manaar; A. SCOTT, Rep. Ceylon Pearl Fisheries iii, n. spp.
 †*X. rhenana*, Oligocene, Mainz, p. 53, pl. iv, fig. 28; LIENENKLAUS, Ber. Senckenberg. Ges. 1905, n. sp.

5. CIRRIPEDIA.

- [See also †BIGOT (16), BRAUN (37), †COUFFON (77), †DONCIEUX (99), †JOHNSON (149), KIÆR (161), †WEGNER (321).]
 Cirripedia, anatomy; GRUVEL, Arch. Mus. Paris vi (1 & 2), pp. 51-224, 8 pls., 27 text-figg.
Alepas gigas, Bali Straits, p. 80, pl. viii, figg. 3-3b, *malaysiana*, Gaspar Straits, p. 81, pl. viii, figg. 4 & 4a; ANNANDALE, Mem. Asiat. Soc. Bengal. i (5), n. spp.
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Scalpellum inerme, p. 75, pl. viii, figg. 1 & 1a and text-fig. 1, *sociabile*, p. 77, pl. viii, fig. 2 and text-figg. 2 & 3, Bali Straits; ANNANDALE, Mem. Asiat. Soc. Bengal i (5), n. spp.
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GIGANTOSTRACA

(XIPHOSURA, TRILOBITA, EURYPTERIDA).

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- BALDWIN, WALTER. *Prestwichia anthrax* and *Belinurus lunatus* from Sparth Bottoms, Rochdale. Tr. Manchester Geol. Soc. xxix (4), pp. 124-127, 2 text-figg.
- BIGOT, —. Catalogue critique de la collection DeFrance, conservée au Musée d'histoire naturelle de Caen. Deuxième partie. Cephalopodes, Arthropodes et Vers. Bull. Soc. Normand. viii, pp. 250-273. [*Trilobita*, pp. 264 & 265.]
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II. SUBJECT-INDEX.

- Physiology of heart in *Limulus*; CARLSON (3 & 4).
 Osmotic pressure of blood of *Limulus* and permeability of gill-membranes; GARREY (9).
 Chitinous character of fossil *Pterygotus* from Oesel; ROSENHEIM (21).
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III. DISTRIBUTION.

- Isle of Wight, occurrence of *Carcinoscorpius rotundicauda*; TEGETMEIER (26).
 Carboniferous: Britain, *Trilobita*; HIND & others (10): Scotland, *Trilobita* and *Xiphosura* (lists); PEACH & HORNE (18): Coal Measures, Rochdale, *Xiphosura*; BALDWIN (1).
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 Silurian-Devonian, New South Wales, *Trilobita*; SHEARSBY (24): Silurian and Devonian, New York, *Trilobita*; SHIMER (25).
 Silurian: Holland, *Trilobita*; JONKER (11): East Baltic region, *Trilobita*, n. spp.; SCHMIDT (23): N. Baltic region, *Trilobita* n. spp.; WIMAN (30): Quebec, *Trilobita*; CLARKE (5): Niagara, New Hampshire, *Trilobita*, n. sp.; LAMBERT (13).

Ordovician: Chazy, New York, *Trilobita* n. spp.; RAYMOND (19 & 20); Pennsylvania, *Trilobita* n. sp.; COLLIE (6).

Cambrian: "Shumardiaschiefer," Nerike, Sweden, *Trilobita* n. spp.; WIMAN (29): India, *Trilobita*; WALCOTT (28): Lower Cambrian, Yunnan, *Trilobita*; MANSUY (15): Upper Cambrian, Shantung, China, *Trilobita* n. spp.; MONKE (17): Cambrian, S. Australia, *Trilobita*; ETHERIDGE (7): Cape Breton, New Brunswick, *Trilobita* n. spp.; MATTHEW (16).

IV. SYSTEMATIC.

XIPHOSURA.

[See also GARREY (9), †PEACH & HORNE (18).]

†*Belinurus lunatus*, p. 126, text-fig. 2; BALDWIN, Tr. Manchester Geol. Soc. xxix (4).

Carcinoscopus rotundicauda, specimen found at Isle of Wight; TEGETMEIER, P. Zool. Soc. London 1904, ii (2), p. 181.

Limulus, physiology of heart; CARLSON, Biol. Bull. viii, p. 152, and Amer. J. Physiol. xiii, pp. 217-240, 16 text-figg.

†*Prestwichia anthrax*, p. 124, text-fig. 1; BALDWIN, Tr. Manchester Geol. Soc. xxix (4).

†TRILOBITA.

[See also BIGOT (2), FELIX (8), HIND AND OTHERS (10), JONKER (11), KAZANSKIÏ (12), MANSUY (15), PEACH & HORNE (18), SHEARSBY (24), SHIMER (25), WALCOTT (28).]

Acerocare norvegicum, p. 63, pl. iii, figg. 19-30; WIMAN, Bull. Geol. Inst. Upsala vi.

Acidaspis, see *Glaphurus*.

Agnostus glabratus, p. 12, pl. i, figg. 27 & 28, var. *ingricus*, p. 13, pl. i, figg. 23 & 24, *lentiformis*, p. 13, pl. i, figg. 21 & 22, *A. sp.*, p. 14, pl. i, figg. 25 & 26; WIMAN, Arkiv Zool. ii, No. 11.

A. koerferi, Cambrian, Shantung, p. 111, pl. iii, figg. 1-9, pl. ix; MONKE, Jahrb. geol. Landesanst. Berlin xxiii (1), n. sp.

Amphion canadensis, p. 363, pl. xiv, figg. 10-13; RAYMOND, Ann. Carnegie Mus. iii (2).

Ampyx brevicauda, Cambrian, Sweden, p. 12, pl. i, figg. 19 & 20; WIMAN, Arkiv Zool. ii, No. 11, n. sp.

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Arionellus balticus, Silurian, N. Baltic region, p. 44, pl. i, figg. 17-21; WIMAN, Bull. Geol. Inst. Upsala vi, n. sp.

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Bathyurus angelini, p. 335, pl. x, figg. 11 & 12, text-fig. 1; RAYMOND, t. c.

Brongniardia trentonensis, p. 418, pl. lix, figg. 1 & 2; COLLIE, Bull. Geol. Soc. Amer. xiv.

- Ceratopyge forficula*, p. 64, pl. iii, fig. 39 ; WIMAN, Bull. Geol. Inst. Upsala vi.
- Ceraurus pompilius*, p. 365, pl. xiv, fig. 14, text-figg. 4-9 ; RAYMOND, Ann. Carnegie Mus. iii (2).
- C. hudsoni*, Ordovician, Valcour Id., p. 367, pl. xiv, fig. 15, RAYMOND, t. c. n. sp.
- Cheirurus*, def. of subgenera, p. 373 ; RAYMOND, t. c.
- Cryphaeus boothi* var. *calliteles*, p. 917, pl. v, fig. 15 ; LOOMIS, Bull. N. York Mus. lxix.
- Cybele valcourensis*, Ordovician, New York, p. 362, pl. xiv, fig. 9 ; RAYMOND, Ann. Carnegie Mus. iii (2), n. sp.
- Dalmanites lunatus*, Silurian, New Hampshire, p. 480, pl. xliv ; LAMBERT, Bull. Geol. Soc. Amer. xv : *D. drevermanni*, p. 247, pl. xi, figg. 1a, 2a, 3, spp., p. 249, pl. xi, figg. 7 & 10a, Devonian, Argentine ; THOMAS, Zeitschr. Deutsch. Geol. Ges. lvii (2) : n. spp.
- Dicranurus limenarcha*, Silurian, Quebec, p. 153, text-fig. ; CLARKE, Bull. N. York Mus. lxxx.
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- D. ketteleri*, Cambrian, Shantung, p. 132, pl. vi, figg. 1-14, pl. ix ; MONKE, t. c. n. sp.
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- E. latus*, Silurian, N. Baltic region, p. 44, pl. i, figg. 22 & 24 ; WIMAN, t. c. n. sp.
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- Heliomera* n. subg. (of a genus not named), *sol*, p. 381 ; RAYMOND, Amer. J. Sci. xx.
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- Ilacenus indeterminatus*, p. 347, pl. xiii, figg. 1 & 2, *bayfieldi*, p. 348, pl. xiii, figg. 11 & 12, *globosus*, p. 350, pl. xiii, figg. 6 & 7 ; RAYMOND, Ann. Carnegie Mus. iii (2).
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- I. harrisi*, p. 343, pl. xii, figg. 3-7, *angusticaudum*, p. 345, pl. xiii, figg. 3 & 4, *bearsi*, p. 345, pl. x, figg. 21 & 25, Ordovician, Chazy ; RAYMOND, t. c. n. spp.
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- Olenellus* sp., p. 247, pl. xxv, fig. 1; ETHERIDGE, Tr. R. Soc. S. Austral. xxix; *O.* sp., p. 43, pl. i, figg. 1-15; WIMAN, Bull. Geol. Inst. Upsala ii.
- Orometopus* sp., p. 15, pl. i, figg. 16-18; WIMAN, Arkiv Zool. ii, No. 11.
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- Platymetopus minganensis*, p. 355, pl. xiv, figg. 1-3; RAYMOND, Ann. Carnegie Mus. iii (2).
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- Remipleurides canadensis*, p. 334, pl. x, figg. 8-10; RAYMOND, Ann. Carnegie Mus. iii (2).
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- S. bottnica*, Silurian, N. Baltic region, p. 65, pl. iii, figg. 35-38; WIMAN, t. c.: *S. nericiensis*, Cambrian, Sweden, p. 14, pl. i, figg. 13-15; WIMAN, Arkiv Zool. ii, No. 11: n. spp.
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- Triarthrus belli*, Cambrian, Cape Breton, p. 412, pl. xviii, fig. 8; MATTHEW, Bull. Soc. New Brunswick xx, n. sp.

†EURYPTERIDA.

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- Eurypterus pittsfordensis*, Devonian, New York, p. 1098, figg. on pls. x-xxv; SARLE, Bull. N. York Mus. lxix, n. sp.
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Pterygotus monroensis, Devonian, New York, p. 1102, pl. xxiv, figg. 7 & 9; SARLE, t. c. n. sp.

 PYCNOGONIDA.

I. TITLES.

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DANTAN. [See HALLEZ (7).]
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— [See also COLE (4).]
11. LOMAN, J. C. C. *Decalopoda* Eights oder *Colossendeis* Jarz. Zool. Anz. xxviii, pp. 722 & 723.
12. NORDGAARD, O. [& others]. Hydrographical and biological investigations in Norwegian Fjords.... 4to, Bergen, 1905, 254 pp., 21 pls., 10 text-figg.
Pycnogonida, p. 189, by APPELLØF.

II. SUBJECT-INDEX.

- Morphology, Phylogeny and Classification of *Pycnogonida*, with special reference to *Pentanympyon* and *Decolopoda*; COLE (4).
 Morphology and habits of *Decolopoda*; HODGSON (9 & 10).
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XI. ARACHNIDA

(Including TARDIGRADA AND PENTASTOMIDA).

BY

A. S. HIRST.

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† *Eobuthus rakovnicensis*, middle coal measures, Rochdale, p. 80; BALDWIN,
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† *Eoscorpilus sparthensis*, middle coal measures, Rochdale, p. 79; BALDWIN,
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- Uroplitella leonardiana* var. *beccarii* n. var., p. 22; BERLESE, t. c.
- Uropoda campomolendina* var. *canadensis* n. var., Canada, p. 22; BERLESE, t. c.: *U. levisetosa*, p. 238, pl. xix; VOIGTS & OUDEMANS, Abh. Ver. Bremen xviii: *U. paradoxa*, Nymphs injurious to plants, pp. 167 & 252; REUTER & NORDENSKIÖLD, Medd. Soc. Faun. Fenn. xxix: *U. levisetosa*, p. 239, *alfkeni*, p. 237, OUDEMANS, Ent. Ber. Nederland. 1905.
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- Varchia* n. g., type *Pteralloptes gambettæ*; OUDEMANS, Ent. Ber. Nederland. 1905.

- Zercon lundbecki*, Greenland, p. 41, text-figg. 88 & 89 ; TRÄGÅRDH, Fauna Arctica iv, n. sp.
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X. TARDIGRADA.

- Anatomy of *Tardigrada*, p. 259, pls. xv & xvi, text-fig. ; BASSE, Zeitschr. wiss. Zool. lxxx.
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D. scoticum, Fife, p. 162, fig. 1, *bullatum*, Lock Leven, p. 164, fig. 2 ; MURRAY, t. c. n. spp.
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XI. PENTASTOMIDA.

- Pentastomum constrictum*, Senegal, p. 78, text-figg. a-d ; THIROUX, C.R. Soc. Biol. lix.

XII. MYRIOPODA AND PROTO- TRACHEATA.

BY

F. SILVESTRI.

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INTRODUCTION.

THE number of papers published on Myriopoda in the year 1905 is 48 ; rather less than in 1904.

Morphology has received contributions by SINCLAIR (38) in a paper on some points of the anatomy of *Platydesmus*, and by VERHOEFF (40-44) on *Lithobiidæ* and *Scutigeriidæ*, in which the authors treat also the post-embryonal development of the Chilopoda in question.

The spermatogenesis of *Scutigera* and *Scolopendra* has been carefully studied by MEDES (26) and BLACKMAN (3); and the cytoplasmic formations of germ-cells in *Scolopendra* by BOUIN (5).

KRAEPELIN has published an important paper (24) on the distribution of *Scolopendridæ*.

In the systematic department, BRÖLEMANN (6-9), CARL (10), RIBAUT (31), SILVESTRI (36), and VERHOEFF (41-46) have contributed descriptions of new genera and species, but their number is not large.

For the *Prototracheata* the year 1905 is memorable for the publication of the first part of the valuable monograph of BOUVIER.

MYRIOPODA.

I. TITLES.

1. ALZONA, C. Brevi notizie sulle raccolte zoologiche nelle caverne. Boll. Naturalista xxv, pp. 1-3. [*Myriopoda*, p. 2.]
2. BERTHOUMIEU, —. Revision de l'entomologie dans l'antiquité. Rev. Sci. Bourbonnaise, Dec. 1904. Myriopodes, p. 197.
3. BLACKMAN, M. W. The spermatogenesis of the Myriapods. III. The spermatogenesis of the *Scolopendra heros*. Bull. Mus. Harvard xlviii, pp. 1-138, 9 pls., A-I text-figg. Abstract, Zool. Jahresber. 1905, *Arthropoda*, pp. 46 & 47.
4. —. IV. On the karyosphere and nucleolus in the spermatocytes of *Scolopendra subspinipes*. P. Amer. Ac. xli, No. 13, pp. 331-344, 1 pl.
5. BOUIN, P. Ergastoplasme, Pseudochromosomes et Mitochondria. A propos des fonctions ergastoplasmiques des cellules seminales chez *Scolopendra cingulata*. Arch. Zool. exp. iii (4), pp. 99-132, pls. iv & v. Abstract, Zool. Zentrbl. xii, p. 772.
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7. —. Myriapodes de Costa-Rica recueillis par M. le Prof. P. Biolley. (2^e Mem.). Ann. Soc. ent. France lxxiv, pp. 337-378, pls. viii-x, 8 text-figg.
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11. CARPENTER, G. H. XIV. Injurious insects and other animals observed in Ireland during the year 1904. Econ. P. Dublin Soc. (i) vi, pp. 281-305, pls. xxiii & xxiv. [*Myriopoda*, p. 295.]
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16. FAUVEL, P. Histoire naturelle de la presqu'île du Cotentin. III. La Faune. Cherbourg et le Cotentin, pp. 47-92. [*Myriopoda*, p. 57.] Abstract, Zool. Zentrbl. xii, pp. 156-159.
17. FELT, E. P. 19th report of the State Entomologist on injurious and other insects of the State of New York, 1903. Bull. N. York Mus. 76. [*Myriopoda*, p. 220.]
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1. *Morphology and Classification.*

Segmentation of the body and phylogeny of Myriopoda, CARPENTER (12).

Morphology of the maxillæ of *Polyxenus lagurus*, CARPENTER (12).

Phylogeny of Myriopoda, HANDLIRSCH (20).

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Morphology of legs in *Scutigera*, VERHOEFF (41, 43 & 44).

Morphology of segments and legs, of mouth parts, of tracheal-system, of copulatory appendages in *Lithobiidae*, VERHOEFF (42).

Systematic position of *Platydesmidae*, SINCLAIR (38).

Relationship of some Myriopoda with *Projapygidae*, SILVESTRI (34).

Phylogeny and classification of *Scutigera*, VERHOEFF (41, 43 & 44).

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3. *Reproduction and Development.*

Postembryonal development of *Chilopoda*, VERHOEFF (40), of *Scutigera*, VERHOEFF (41), of *Lithobiidae* (42).

Dorsal-organ of the embryo of *Scolopendra*, HEYMONS (22).

Remarks on the entoderm and mesoderm of Myriopoda, HEYMONS (21).

Spermatogenesis of *Scolopendra heros*, BLACKMAN (3), of *Scutigera forceps*, MEDES (26).

Karyosphere and nucleolus in the spermatocytes of *Scolopendra subspinipes*, BLACKMAN (4).

Cytoplasmic formations (ergastoplasme, pseudochromosomes, mitochondria) in the germ-cells of *Scolopendra cingulata*, BOUIN (5).

Crystals in the eggs of *Scutigera*, GIARDINA (18).

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Cannibalism of *Lithobius grossipes*, VERHOEFF (42).

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Sublitoral *Geophilidae*, FAUVEL (16).

Habitat of *Scutigera forceps*, FELT (17).

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Centipede eating a snake, OKEDEN (29).

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5. *Miscellaneous.*

Myriopoda in Aristotle, BERTHOUMIEU (2).

Collection of Myriopoda, PORTER (30).

Collection of Myriopoda in caves, ALZONA (1).

Review of literature for 1904, GIESBRECHT & MAYER (19).

III. DISTRIBUTION.

A. GEOGRAPHICAL.

Geographical distribution of *Scolopendridæ*, KRAEPELIN (23).

(1) *Arctic and Antarctic.*

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(2) *Europe and Mediterranean Islands.*

- Crimea, list of 37 species of Myriopoda, LIGNAU (25).
 Bohemia, catalogue of species of Myriopoda, VALIS (39).
 Hungary, *Scutigera*, VERHOEFF (43).
 Marburg, list of species of Chilopoda and Diplopoda, ELLINGSEN (14).
 France, *Diplopoda* n. spp., BRÖLEMANN (9), observations on described species and n. spp., RIBAUT (31 & 32), CHALANDE (13).
 Switzerland, Valais, *Craspedosoma* n. sp., FAES (15).
 Monaco, *Symphyla* and *Diplopoda*, list of species and *Diplopoda* n. spp., BRÖLEMANN (6).
 Elba and Pianosa, Italy, *Chilopoda* and *Diplopoda*, list, SILVESTRI (35).
 Portugal, a few localities, Annuar. Ac. Porto 1900-1901, pp. 83 & 84.

(3) *Asia (Palæarctic).*

- Turkestan, Cilicia and Syria, *Scutigeridæ*, VERHOEFF (43).
 China, *Scutigeridæ*, VERHOEFF (41, 43 & 44).
 Japan, *Scutigeridæ*, VERHOEFF (41 & 44).

(4) *India and Further India.*

- India, *Scutigeridæ*, VERHOEFF (43).
 Ceylon, *Scutigeridæ*, VERHOEFF (41 & 43).

(5) *Malay Peninsula and Archipelago.*

- Borneo, *Scutigeridæ*, VERHOEFF (43).
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(6) *Africa.*

- Spanish Guinea, *Diplopoda*, observations on described species and n. spp., CARL (10).
 Senegal, Sudan, *Chilopoda*, list of species, *Diplopoda* n. spp., BRÖLEMANN (8).
 West-Africa, *Scutigeridæ*, VERHOEFF (43).
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 Natal, *Scutigeridæ*, VERHOEFF (43).
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(7) *North America.*

- U. S. North America, *Scutigera*, FELT (17), VERHOEFF (43).

(8) *South and Central America and West Indies.*

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Chile, Myriopoda list, redescrptions of described species and n. spp.,
SILVESTRI (36 & 37).

(9) *Australasia.* (10) *Atlantic Islands.* (11) *Indian Ocean Islands.* (12) *Pacific Ocean Islands.*

(Vacant.)

B. GEOLOGICAL.

(Vacant.)

IV. SYSTEMATIC INDEX†.

[See also BRÖLEMANN (6 & 7), ELLINGSEN (14), SILVESTRI (35), VALIS (39).]

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- Allothereua* n. gen. (*Scutigera*) for *Scutigera maculata* Wood; VERHOEFF, Zool. Anz. xxix, p. 101.
Ballonemini, characters; VERHOEFF, t. c. p. 75.
Lassophora n. gen. (*Scutigera*); VERHOEFF, t. c. p. 116.
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Microthereua n. subgen. of *Thereuopoda*; VERHOEFF, t. c. p. 114.
Orthothereua n. gen. (*Scutigera*) for *Scutigera longicornis* Newp.; VERHOEFF, t. c. p. 106.
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P. annuligera, characters; VERHOEFF, t. c. p. 92.
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P. pulchritarsis, p. 60, figg. 10-12; VERHOEFF, SB. Ges. naturf. Berlin 1905.
Podothereua n. gen. (*Scutigera*), p. 11; VERHOEFF, t. c., and pp. 102 & 108, id. Zool. Anz. xxix.
P. insularum, p. 20, figg. 6 & 7; VERHOEFF, t. c. n. sp., and postembryonal development.
Scutigera, characters emend. and analytical key to the species and subspecies; VERHOEFF, Zool. Anz. xxix, p. 76.
S. muscivora, Hungary, pp. 76 & 78, *asiæminoris*, Cilicia, pp. 77 & 80, *rubrovittata*, Keos, pp. 77 & 82; VERHOEFF, t. c. n. spp.
S. coleoptrata natalensis, Natal, pp. 77 & 83, *coleoptrata græca*, Greece, p. 77, *coleoptrata insularum*, Thera, pp. 78 & 84; VERHOEFF, t. c. n. subspp.

† "Where the character of a reference is not indicated the words "description" or "descriptive notes" are to be understood.

- S. coleoptrata*, p. 77, *coleoptrata (genuina)*, South Tyrol, Portugal, Canary-Ids., p. 78; VERHOEFF, t. c.
- S. coleoptrata*, postembryonal development, p. 45, figg. 1-5; VERHOEFF, SB. Ges. naturf. Berlin 1905: crystalloids in the eggs; GIARDINA, Monit. Zool. ital. xvi, pp. 202-205.
- S. forceps*, p. 86; VERHOEFF, Zool. Anz. xxix: habitat of; FELT, Bull. N. York Mus. 76, p. 220.
- S. forceps*, spermatogenesis; MEDES, Biol. Bull. ix, pp. 156-186, pls. ii-vi.
- Scutigeridæ*, morphology of legs, postembryonal development, characters of systematic value, n. subfam. tribes, gen. and spp.; VERHOEFF, SB. Ges. naturf. Berlin, 1905, pp. 9-60: id. Zool. Anz. xxix, pp. 73-103, 105-119, 353-371: id. Gliedfüßler, Arthropoda, Bronn's Klassen etc. Lief. 72-74.
- Scutigerinæ*, analytical key to the tribe; VERHOEFF, Zool. Anz. xxix, p. 75.
- Scutigerini* n. trib. (*Scutigerinæ*); VERHOEFF, t. c. p. 75.
- Sphendononema annulipes*, Kamerun; VERHOEFF, t. c. p. 99, n. sp.
- S. camerunense*, characters; VERHOEFF, t. c. pp. 99 & 100.
- Tachythereua* n. gen. (*Scutigeridæ*), pp. 12 & 53; VERHOEFF, SB. Ges. naturf. Berlin 1905.
- T. maroccana*, Marocco, p. 54, figg. 8 & 9; VERHOEFF, t. c.
- Thereuonema*, characters, p. 10; VERHOEFF, t. c.; and analytical key to the species, pp. 86 & 354, id. Zool. Anz. xxix.
- T. tuberculata*, China, p. 58, A-C text-figg. and figg. 13 & 14, pl.; VERHOEFF, SB. Ges. naturf. Berlin, 1905, and pp. 87 & 356, id. Zool. Anz. xxix.
- T. turkestan*, Turkestan, pp. 87, 88 & 355, *syriaca*, Syria, pp. 88, 89 & 356, *annulata*, Tsingtan, p. 355, *hilgendorfi*, Japan, p. 356; VERHOEFF, t. c. n. spp.
- T. annulata spinigera*, Japan, n. subsp., pp. 356, 357 & 367, var. *spinigera*, n. var. p. 356, var. *japonica* n. var. p. 356, *syriaca* var. *egyptiaca* n. var. p. 90; VERHOEFF, t. c.
- Thereuonomini* n. trib. (*Scutigerinæ*), p. 75, analytical key to the genera, p. 107; VERHOEFF, t. c.
- Thereuopoda* subgen. elev. to gen., characters, p. 11, and analytical key to the species, p. 13; VERHOEFF, SB. Ges. naturf. Berlin 1905, and pp. 102 & 108, Zool. Anz. xxix.
- T. flagellifera*, Ceylon, p. 108, *decipiens*, India, p. 110, *nana*, Borneo, p. 111; VERHOEFF, t. c. n. spp.
- T. multidentata*, pp. 14 & 17; VERHOEFF, SB. Ges. naturf. Berlin 1905, n. sp.
- T. rubrolineata*, Ceylon, pp. 13 & 15, *clunifera*, Japan, pp. 13 & 16, *amokiana*, Eastjava, p. 14, *longicornis*, pp. 14 & 19; VERHOEFF, t. c.
- T. clunifera*, Japan, characters of *Pseudomaturus*; VERHOEFF, Zool. Anz. xxix, p. 113.
- T. (Microthereua) chinensis*, China; VERHOEFF, t. c. p. 114, n. sp.
- Thereuopodina* n. gen. (*Scutigeridæ*); VERHOEFF, t. c. p. 102.
- T. tenuicornis*, Ceylon; VERHOEFF, t. c. p. 105, n. sp.

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- Anopsobius*; SILVESTRI, Zool. Jahrb. Syst. Suppl. vi, p. 749.
- A. productus*, Temuco (Chile), p. 750, pl. xxxvi, figg. 44-49; SILVESTRI, t. c.
- Lamyctes inermipes* var. *pacificus*, Chile, p. 748; SILVESTRI, t. c. n. var.
- Lithobiidæ*, morphology of segments and legs, of mouth parts, of tracheal system, of copulatory appendages, postembryonal development,

- moults; VERHOEFF, Zool. Jahrb. Syst. Suppl. vii, pp. 195-298, pls. vi-viii.
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