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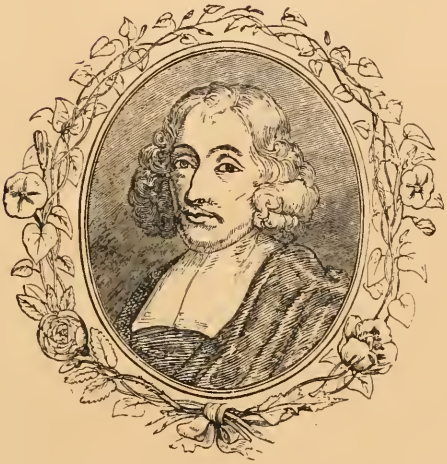

This volume is issued to the Subscribers to the Ray Society *for the Year* 1912.

LONDON:

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A

BIBLIOGRAPHY

OF THE

TUNICATA

1469—1910

BY

JOHN HOPKINSON, F.L.S., F.G.S., F.Z.S., &c.,
Secretary of the Ray Society

LONDON
PRINTED FOR THE RAY SOCIETY
AND SOLD BY
DULAU & CO., LTD., 37, SOHO SQUARE, W.

1913

PRINTED BY ADLARD AND SON
LONDON AND DORKING

PREFACE.

In preparing for publication by the Ray Society Alder & Hancock's 'British Tunicata' I found it necessary to compile a bibliography of works treating of British species which had appeared up to the time the authors ceased their labours on the Class. Joseph Alder died in 1867, Albany Hancock in 1873, and as he appears to have ceased to work at their MS. a few years after the death of his coadjutor, the end of the year 1870 seemed to be the best time to close all references to the species described.

The preparation of the present Bibliography was therefore undertaken in the first instance to that date for my own use only, but as other works besides those relating to British species were included, and in the course of its compilation it was found to have added many references to any previous bibliography of the Tunicata, it appeared to me that it might be useful to others if printed.

On suggesting this to Canon Norman, who was then giving me his advice and assistance in preparing for the press Alder & Hancock's monograph, he said that a bibliography of works which had appeared since the date named would be far more useful.

That was in the year 1906, when my idea was to make the bibliography merely a Supplement to the third volume of the 'British Tunicata.' I then com-

menced to add to it memoirs published since 1870, and have been doing so, and also adding to the earlier period, at such times as I could spare from other work for the last six or seven years. Sometimes long intervals have elapsed during which it has had to be laid aside, which circumstance, together with its having been compiled in two sections, first to 1870 and then to 1910, and also having had to be printed in two sections, first from A to L and then from M to Z, I must plead in excuse for occasional discrepancies and want of uniformity in treatment.

The authors of the 'British Tunicata' very seldom gave a date in their synonymy, nearly all the dates, as will be seen on referring to that work, having had to be supplied by me. To ascertain the actual year of publication of the memoirs cited was often a difficult matter, and indeed it was one in which I was not always successful. Mistakes also have occurred owing to false dates on title-pages, but some of these have been detected, as in Gmelin's edition (the 13th) of the 'Systema Naturæ' of Linnæus, the first volume of which, in seven parts, each being really a separate volume, bears the date 1788 on the title-page which covers the whole of the parts. That this date applies to the first part only is evident from the sixth part, which contains the Tunicata, having references to works more recently published, their dates however not being given. It was therefore necessary to find out the date of publication of the several parts, and this I succeeded in doing to within a few months, finding that they ranged from 1788 to 1793, the sixth part having been issued early in the year 1791. An account of this investigation appeared in the fourth part of the 'Proceedings of the Zoological Society of

London' for 1907, which is the date on the title-page of the volume, although that part was issued in May, 1908, a date which appears on the cover only.

In such enquiries Mr. C. D. Sherborn's valuable papers giving the dates of publication of works issued at intervals have proved of great service.

A glaring instance of wrong dating appears in the 'Archiv für Naturgeschichte,' all the volumes of the bibliographical portion of which, from about the year 1885, are dated some years before they were published. Thus the date on the title-page of the volume which gives a list of the literature on the Tunicata for the years 1899 to 1902 is 1897. It was issued in 1904, a date which only appears on a corner of the cover. If that is not bound in with the volume the date of publication is therefore lost.

A frequent source of difficulty is the gathering together into one volume of several parts published in different years, the date on the title-page being that of the last part published. In such cases, and they are very numerous, an endeavour has been made to ascertain the date of publication of the memoir cited, but not always with success, and in all works recently examined, when such date does not correspond with the date on the title-page, that date has also been given after the number of the volume.

I have referred to this matter at some length in the hope that these lines may be seen by editors of journals, etc., published in parts, who have it in their power to very much lighten the labours of a bibliographer by giving, inside the volumes they edit, the date of publication, month and year, of each part of which the volume consists, adding for identification, if required, the pages of the part.

The compilation of this Bibliography has brought me into contact with the Librarians of several of our London Scientific Societies and other Institutions, to all of whom I desire to tender my thanks for their kind help. I may especially mention the Librarians of the Linnean Society and the Zoological Society, and those of the General and Zoological Libraries of the British Museum (Natural History) at South Kensington. In these Libraries, and also in that of the British Museum at Bloomsbury, nearly all my work has been done.

That the Bibliography is by no means complete I am fully aware. That it might be considerably extended is evident from the Addenda, the result (with the exception of a few cross-references) of researches carried on since the earlier section (A to L) was printed. I have found it impossible to gain access to many foreign books and memoirs quoted in bibliographies as containing references to the Tunicata. Only a few of these are included on the faith of the authority cited. I hope, however, that this work may prove to be of service not only to students of the Tunicata, but to all who have to refer to the literature relating to Marine Biology.

JOHN HOPKINSON.

WEETWOOD, WATFORD,
12th March, 1913.

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EXPLANATIONS.

With an alphabetical arrangement of the names of authors the sequence of their works is chronological so far as it could be ascertained. When more than one in the same year it is alphabetical under the first word in the title, except when they have appeared in the same journal, in which case the sequence is that in which they are printed.

The pages, etc., in brackets, refer to descriptions and figures of Tunicates or allusions to the Tunicata. A little further information is sometimes given when it can be done without appreciably lengthening the entry. Thus in nearly all the faunistic papers the number of species named or described is added.

As the Bibliography is not intended for English readers only, such foreign translations of English works as I have found are cited as well as translations of foreign works into English, or from any language into another. Thus the chief Latin, English, French, and German editions of Aristotle's 'Historia Animalium' are cited. The titles of all Russian memoirs are translated into English, except when a resumé in German follows the memoir, in which case the German title has, in one or two instances, been adopted.

The principal divisions of a work, mostly called volumes or the equivalent if in a foreign language, are almost invariably numbered in large Roman capitals unaccompanied by vol., tome, or Band, etc.; separately paged parts similarly in small Roman capitals; and parts not separately paged in Arabic type, but these as a rule are only given when the separate parts of a volume sometimes appear in different years. A series is indicated in parentheses preceding the volume.

The indented entries in smaller type are abstracts, but a selection only of those which appeared likely to be useful. Thus, except in the case of abstracts of unusual importance, they are confined to those in a different language or published in a different country from that in which the original memoir or a translation of it had appeared.

When more than one edition of a work is cited they are either the first and the last accessible to me, or those which differ most greatly or appear to be the best. When the difference is very slight, an edition is sometimes cited in type still smaller than that of the abstracts, and the same type is used for occasional remarks on the works.

The number of pages, etc., of independent publications is only given when it is so small that they may be considered pamphlets.

The abbreviations of the titles of periodical publications and other works are such as will be generally understood, but the titles of all journals and proceedings of Societies cited are given at the end of the volume, either in full or sufficiently so for certain identification, with their size (mostly 8°) and place of publication. Words or parts of words in parentheses indicate either that the title varies, or an occasional variation in the abbreviation for it.

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See Dalla Torre, K. W. von.

Valenciennes, *Achille.*

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See Della Valle, A.

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1899. [Collection of St. Petersburg University.] *See* Schimkewitsch, W., & J. Wagner.

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ERRATA AND CORRIGENDA.*

Page 3, ALDROVANDI, line 3, *after* nempe *insert* de.
,, 10, BARROIS, line 3, after *Physiol.* insert (Robin).
,, ,, BAUDEMONT, line 1, for *E.* read *Émile.*
,, 11, BELON, line 2, *for* 1553 *read* 1555; *for* plusieures *read* plusieurs; line 3, *for* mémorable *read* mémorables; *for* Grece *read* Grèce.
,, 14, BIANCHI, line 10, *add* pl. viii.
,, ,, BIGOT DE MOROGUES, line 1, add *Pierre Marié Sébastien.*
,, 16, BOEKE, line 1, for *J.* read *Jan.*
,, 19, BOSTOCK, line 1, add *& H. T.* Riley.
,, ,, BOUVIER, line 1, for *Eugène L.* read *Louis Eugène.*
,, 22, BROWN, line 2, *for* 1883 *read* 1832.
,, 24, BUMPUS, line 1, for *Herman* read *Hermon.*
,, ,, BUONANNI, line 1, for *Filipo* read *Filippo.*
,, ,, BURMEISTER, line 1, for *Hermann* read *Carl Hermann Conrad.*
,, 25, CAMPER, line 2, *for* Bijdrgen *read* Bijdragen.
,, 26, CARLSON, line 15, *for* of direct *read* on direct.
,, 30, CAVANNA, line 2, *for* Italiani *read* Italiana; line 3, *for* Ideofauna *read* Idrofauna; *for* Animale *read* Animali.
,, ,, CHABRY, line 3, after *Physiol.* insert (Robin).
,, 32, CLAPARÈDE, line 1, for *Edouard* read *Édouard.*
,, 34, COLLIN, *J.*, line 3, *for* særlight *read* særligt.
,, ,, COLTON, *H. S.*, line 1, for *H. S.* read *Harold Sellers.*
,, 36, COSTA, *O. G.*, line 1, for *Orenzio* read *Oronzio.*
,, 37, CUVIER, line 1, read *Georges Léopold Crétien Frédéric Dagobert.*
,, 39, DALLA TORRE, line 1, for *K. W.* read *Karl Wilhelm von.*
,, 41, DAUMÉZON, lines 3 and 5, for *Français* read *Française.*
,, 45, DELLE CHIAJE, line 11, *after* Sicilia *insert* citeriori, *and after* osservati *insert* vivi.
,, ,, DELSMAN, line 3, *after* III *insert* (1911) II.
,, ,, DÉSHAYES, line 1, read Deshayes.
,, ,, DESLONCHAMPS, line 1, read Deslongchamps, *Eugène Eudes.*
,, 46, DESMAREST, *A. G.*, line 1, for *Anselm* read *Anselme.*
,, 49, DRIESCH, line 1, after *Hans* insert *Adolf Eduard.*

* Including extensions of Christian names, mostly taken from the excellent Catalogue of the Books, &c., in the British Museum (Natural History), compiled by the Librarian, Mr. B. B. Woodward, and now in course of publication.

Page 50, DUVERNOY, line 1, for *Lewis* read *Louis*.
„ „ ECKSTEIN, line 1, for *K.* read *Karl*.
„ 51, EDWARDS, line 1, for —,read *Achille*.
„ 54, FARMAN and FARRAN, line 1, read **Farran**, *George P.*
„ 55, FIEDLER, line 1, after *Karl* insert *Alfred*.
„ 56, FLEMMING, line 1, for *W.* read *Walther*.
„ 63, GARSTANG, *delete* lines 5–7, the article on Sea-squirts being by the editor of the Royal Natural History, Mr. Richard Lydekker.
„ 64, GERSTAECKER, line 3, *for* G. *read* C.
„ „ GERVAIS, line 1, for *Francois* read *François*.
„ 67, GIGLIOLI, line 2, delete *Estr.*
„ 71, GRAY, line 3, *for* XX *read* XV.
„ 72, GUÉRIN-MENEVILLE, line 1, read **Gaérin-Méneville**, *Félix Édouard*.
„ „ GUNNER, line 5, for *Gess.* read *Ges.*; line 7, *for* Rogle *read* Nogle.
„ 75, HARTMEYER, line 4 from bottom, *for* Artkis *read* Arktis.
„ 76, „ line 7 from bottom, *for* Nordösthyst *read* Nordöst Kyst.
„ 77, HARTWIG, line 1, after *Georg* insert *Ludwig*.
„ „ HASSELT, line 2, for *Allgem.* read *Algem.*
„ 80, HERDMAN, line 3, *for* Ascidiadæ *read* Ascidiidæ.
„ 83, „ line 11 from bottom, *for* 562 *read* 662; line 7 from bottom, for *Syntethis* read *Syntethys*.
„ 87, „ line 14, *for* Biological *read* Biology.
„ 89, HICKSON, line 1, for *J.* read *John*.
„ 90, HJORT, line 12 from bottom, *delete* and *Oithonella*.
„ „ „ bottom line, *for* Apellöf *read* Appellöf.
„ 91, HOEVEN, line 2, *for* Handboch *read* Handboek.
„ 93, HUBRECH, line 1, for *A. A. W.* read *Ambrosius Arnold Willem*.
„ „ HURST, line 1, for *C.* read *Charles*.
„ 96, IMPERATO, line 2, *for* de *read* di.
„ „ JACOBSOHN, line 2, *for* Seas *read* Sea.
„ „ JEFFREYS, line 1, for *James Gywn* read *John Gwyn*.
„ 97, JOHNSTONE, line 3, delete (*Oithona similis*).
„ 98, JOLIET & SELLEIR, line 1, for *F.* read *L.*
„ 99, JONES, line 2, *for* 1851 *read* 1871.
„ „ JONSTONUS, line 2, *for* aquaticus *read* aquaticis.
„ „ JOUBIN, line 1, for *L.* read *Louis*.
„ 100, JOURDAN, line 1, for *E.* read *Étienne*.
„ 103, KELLNER, line 9, *after* KELLNER *insert* (In Add.).
„ 104, KERR, line 3, *for* Africa *read* Arran.
„ „ KIÆR, H., line 1, for *H.* read *Hans*.
„ 105, KINKELIN, line 1, for *F.* read *George Friedrich*.
„ 106, KLUNZINGER, line 1, for *C. B.* read *Carl Benjamin*.
„ „ KNAUER, line 1, after *Friedrich* insert *Karl*; line 3, *for* Dalta *read* Dalla.
„ 107, KNUDSEN, line 1, after *Martin* insert *Hans Christian*.
„ „ KOEHLER, line 1, for *R.* read *Réne*.

Page 110, KRAEMER, line 3, *for* Ocean *read* Ozean.
„ 112, KUHL, line 2, for *Allgem.* read *Algem.*
„ 113, KUPFFER, line 8, for *Entwickl.* read *Entwickel.*
„ 114, LAHILLE, line 3, after *Soc.* insert *Hist. nat.*
„ 115, „ line 17, *for* Branyuls-sur-Mer *read* Banyuls-sur-Mer.
„ 116, LAMEERE, line 6, for *Octanemus* read *Octacnemus.*
„ 121, LEUCKART, line 6, *for* Verwandtsschafts *read* Verwandtschafts.
„ 122, LEUCKART, line 1, for *R.* read *C. G. F. R.*
„ „ LEUNIS, line 7, *after* 1883–86. *insert* 8°. Hannover.
„ „ LINDSAY, line 1, for *B.* read *Beatrice.*
„ 127, LOHMANN, line 6 from end, *for* dersalben *read* derselben.
„ 142, MEYER, line 1, read Mayer, *Paul*; line 2, *for* Mikroskopischen *read* Mikroskopische.
„ 145, MOQUIN-TANDON, *J.*, line 1, for *J.* read *Gaston.*
„ 185, ROULE, line 8 from bottom, *for* Phallusidées *read* Phallusiadées.
„ 186, „ line 12 from bottom, *for* peculiarités *read* particuliarités.
„ 187, „ line 3, *for* Gascoyne *read* Gascogne; line 11, *for* marins *read* marines.
„ 200, SCHWEIGGER, line 3, *for* pp. 55–56 *read* pp. 54–60.
„ 203, SEELIGER, line 4 from bottom, *for* schwanze *read* schwanzes.
„ 211, SOLLAS, line 1, for *H.* read *Hertha.*
„ 214, STERN, delete the entry.

In Brandt's 'Nordisches Plankton' I signifies Lief. I as issued. The Tunicata will form part of Zoologie, Band II, or Band III of the entire work. See pp. 4 (Apstein), 18 (Borgert), and 126 (Lohmann).

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Abh. Senckenb. nat. Ges.—Abhandlungen herausgegeben von der Senckenbergischen naturforschenden Gesellschaft. 4°. Frankfurt a.-M.

Acta Soc. Fauna Fenn.—Acta Societatis pro Fauna et Flora Fennica. 8°. Helsingfors.

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Act. Mus. Rouen.—Actes du Muséum d'Histoire naturelle de Rouen. 8°. Rouen.

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Act. Soc. Linn. Bordeaux.—Actes de la Societé Linnéenne de Bordeaux. 8°. Bordeaux.

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Amer. Jrn. Conchol.—The American Journal of Conchology. 8°. Philadelphia.

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Amer. Naturalist.—The American Naturalist. 8°. Philadelphia.

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Anales Soc. Española Hist. nat.—Anales Real Sociedad Española de Historia natural. 8°. Madrid.

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Ann. Mus. Hist. nat.—Annales du Muséum d'Histoire naturelle. 4°. Paris.

Ann. Mus. Marseille.—Annales du Musée d'Histoire naturelle de Marseille. 4°. Marseille.

Ann. Mus. St. Pétersb.—Annuaire du Musée zoologique de l'Académie Impériale des Sciences de St. Pétersbourg. 8°. St. Pétersbourg.

Ann. Nat. Hist.—Annals and Magazine of Natural History. 8°. London.

Ann. New York Acad. Sci.—Annals of the New York Academy of Sciences. 8°. New York.

Annot. zool. Japon.—Annotationes zoologicæ Japonensis. 8°. Tokyo.

Ann. Sci. nat.—Annales des Sciences naturelles. Zoologie et Paléontologie. 8°. Paris.

Ann. Sci. nat. Porto.—Annaes de Sciencias naturaes. 8°. Porto.

Ann. Scott. Nat. Hist.—The Annals of Scottish Natural History. 8°. Edinburgh and London.

Ann. Soc. Linn. Lyon.—Annales de la Société Linnéenne de Lyon. 8°. Lyon.

Ann. Soc. malac. Belg.—Annales de la Société royale malacologique de Belgique. (Mémoires et Bulletin.) 8°. Bruxelles.

Ann. Soc. Rochelle.—Annales de la Société des Sciences naturelles de la Charente-inferieure. Académie de la Rochelle. 8°. La Rochelle.

Ann. Univ. Lyon.—Annales de l'Université de Lyon. 8°. Paris.

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Arb. Inst. Würzburg.—Arbeiten aus dem zoologisch-zootomischen Institut in Würzburg. 8°. Würzburg & Wiesbaden.

Arb. zool. Inst. Wien.—Arbeiten aus dem zoologischen Institut der Universität Wien und der zoologischen Station in Triest. 8°. Wien.

Arch. Anat. Entwick.—Archiv für Anatomie und Entwickelungsgeschichte. Anat. Abth. Arch. Anat. Physiol. 8°. Leipzig.

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Arch. Biologie.—Archives de Biologie. 8°. Gand & Paris.

Arch. Entwick. Org.—Archiv für Entwickelungsmechanik der Organismen. 8°. Leipzig.

Arch. ges. Physiol.—Archiv für die gesammte Physiologie des Menschen und der Thiere (Pfluger's). 8°. Bonn.

Arch. Hydrobiol. Plankt.—Archiv für Hydrobiologie und Planktonkunde. (Biologische Station zu Plön.) 8°. Stuttgart.

Arch. Ital. Biol.—Archives Italiennes de Biologie. 8°. Turin.

Arch. mikr. Anat.—Archiv für mikroskopische Anatomie. 8°. Bonn.

Arch. Naturg.—Archiv für Naturgeschichte. 8°. Berlin.

Arch. Parasitol.—Archives de Parasitologie. 8°. Paris.

Arch. Rassen-Biol.—Archiv für Rassen- und Gesellschafts-Biologie. 8°. München.

Arch. Sci. phys. nat.—Archives des Sciences physiques et naturelles. Bibliothèque universelle. 8°. Genève.

Arch. Ver. Mecklenb.—Archiv des Vereins der Freunde der Naturgeschichte in Mecklenburg. 8°. Güstrow.

Arch. Zellforsch.—Archiv für Zellforschung. 8°. Leipzig.

Arch. Zool. expér.—Archives de Zoologie expérimentale et générale. 8°. Paris.

Arch. zool. Ital.—Archivio zoologico publicato solto gli auspicii della unione zoologica Italiana. 8°. Napoli.

Arkiv Zoologi.—Arkiv för Zoologi. (K. Svenska Vet.-Akad.) 8°. Uppsala & Stockholm.

Atti Accad. Lincei.—Atti della R. Accademia dei Lincei. (Memorie e Rondiconti.) 4°. Roma.

Atti Accad. Sci. Napoli.—Atti della R. Accademia delle Scienze fisiche e matematiche. Società Reale di Napoli. 4°. Napoli.

Atti Accad. Siena.—Atti della Reale Accademia dei Fisiocriciti di Siena. 8°. Siena.

Atti Soc. Ital.—Atti della Società Italiana di Scienze naturali (e del Museo civico di storia naturale in Milano). 8°. Milano.

Austral Assoc. Adv. Sci.—Australian Association for the Advancement of Science. Report. 8°. Sydney.

Beitr. chem. Physiol. Path.—Beiträge zur chemischen Physiologie und Pathologie. Zeitschrift für die gesammte Biochemie. 8°. Braunschweig.

Ber. Danske biol. Stat.—Beretning til Indenrigaministariat fra den Danske biologiske Station. 8°. Kjöbenhavn.

Ber. Deutsche chem. Ges.—Berichte der Deutschen chemischen Gesellschaft. 8°. Berlin.

Bergens Mus. Aarbog.—Bergens Museums Aarbog. (Afhandlinger og Aarsberetning.) 8°. Bergen.

Bergens Mus. Aarsb.—Bergens Museums Aarsberetning. 8°. Bergen.

Ber. nat. Ges. Freiburg.—Berichte der naturforschenden Gesellschaft zu Freiburg, i. B. 8°. Freiburg, i. B.

Ber. Senck(enb). nat. Ges.—Bericht über die Senckenbergische naturforschende Gesellschaft in Frankfurt-am-Main. 8°. Frankfurt.

Ber. Ver. Innsbruck.—Berichte des naturwissenschaftlich-medizinischen Verein in Innsbruck. 8°. Innsbruck.

Bibl. Conchyl.—Bibliothèque conchyliogique. Par J. C. Chenu. 8°. Paris.

Bibl. École haut. études.—Bibliothèque de l'École des hautes études. Section des Sciences naturelles. 8°. Paris.

Bibl. Zoologica.—Bibliographia Zoologica. (Part of) Zoologischer Anzeiger. 8°. Leipzig.

Bih. Göteborgs Vet. Handl.—Bihang till Göteborgs kongliga Vetenskaps- och Vitterhets-samhälles Handlingar. 8°. Göteborg.

Bih. Svenska Vet.-Akad. Handl.—Bihang till kongliga Svenska Vetenskaps-Akademiens Handlingar. 4°. Stockholm.

Biochem. Zeitschr.—See *Beitr. chem. Physiol. Path.*

Biol. Bull. Woods Holl.—Biological Bulletin of the Marine Biological Laboratory, Woods Holl, Mass. 8°. Woods Holl.

Biol. Centralbl.—Biologisches Centralblatt (from 1908 Zentralblatt). 8°. Leipzig.

Biol. Fören. Förh.—Biologiska Föreningens Förhandlingar. 8°. Stockholm & Leipzig.

Biol. Lectures Woods Holl.—Biological Lectures from the Marine Biological Laboratory of Woods Holl. 8°. Boston, U.S.A.

Biol. Zentralbl.—Biologisches Zentralblatt (to 1907 Centralblatt). 8°. Leipzig.

Blätt. Aq.-Terr.-Freunde.—Blätter der Aquarien- und Terrarien-Freunde. 8°. Berlin.

Boll. Soc. geogr. Ital—Bollettino della Società geografica Italiana. 8°. Roma.

Boll. Soc. Nat. Napoli.—Bollettino della Società di Naturalisti in Napoli. 8°. Napoli.

Boston Jrn. Nat. Hist.—Boston Journal of Natural History, containing papers . . . read to the Boston Society of Natural History. 8°. Boston (U.S.A.).

Bull. Acad. (Sci.) Belg.—Bulletins de l'Académie royale des Sciences, des Lettres, et des Beaux-arts de Belgique. 8°. Bruxelles.

Bull. Acad. (Sci.) Cracovie.—Bulletin international de l'Académie des Sciences de Cracovie. 8°. Cracovie.

Bull. Acad. (Sci.) St. Pétersb.—Bulletin de l'Académie impériale des Sciences de St. Pétersbourg. 8°. St. Pétersbourg.

Bull. Essex Inst.—Bulletin of the Essex Institute. 8°. Salem.

Bull. internat. Acad. Cracovie.—See *Bull. Acad. Sci. Cracovie.*

Bull. internat. expl. Mer.—Conseil permanent international pour l'exploration de la Mer. Bulletin des résultats aquis pendant les courses périodiques. 4°. Copenhague.

Bull. Mus. Comp. Zool.—Bulletin of the Museum of Comparative Zoology at Harvard College in Cambridge. 8°. Cambridge, Mass.

Bull. Mus. Hist. nat.—Bulletin du Muséum d'Histoire naturelle. 8°. Paris.

Bull. Mus. océanogr. Monaco.—Bulletin du Musée océanographique de Monaco. 8°. Monaco.

Bull. sci. dép. Nord.—Bulletin scientifique du départment du Nord et des Pays voisins. 8°. Paris. (Continued as)

Bull. sci. France Belg.—Bulletin scientifique de la France et de la Belgique. 8°. Paris.

Bull. Sci. nat. (géol.).—Bulletin des Sciences naturelle et de géologie. 8°. Paris.

Bull. Soc. Hist. nat. Toulouse.—Société d'Histoire naturelle de Toulouse. Bulletin. 8°. Toulouse.

Bull. Soc. Linn. Normandie.—Bulletin de la Société Linnéenne de Normandie. 8°. Caen.

Bull. Soc. Ouest France.—Bulletin de la Société des Sciences naturelles de l'Ouest de la France. 8°. Paris & Nantes.

Bull. Soc. philom. (Paris).—Bulletin des Sciences, par la Société philomatique de Paris. 4°. Paris.

Bull. Soc. Sci. nat. Rouen.—Bulletin de la Société des amis des Sciences naturelles de Rouen. 8°. Rouen.

Bull. Soc. Sci. Toulouse.—Bulletin de la Société des Sciences physiques et naturelles de Toulouse. 8°. Toulouse.

Bull. Soc. zool. France.—Bulletin de la Société zoologique de France. 8°. Paris.

Bull. U. S. Fish Comm.—Bulletin of the United States Fish Commission 8°. Washington.

Bull. U. S. Nation. Mus.—Bulletin of the United States National Museum. 8°. Washington.

Canad. Naturalist.—The Canadian Naturalist and Geologist (to 1863). The Canadian Naturalist and Quarterly Journal of Science (from 1864). 8°. Montreal.

Carnegie Inst. publ.—Carnegie Institution of Washington. Publications. 8° and 4°. Washington.

Caus. scient. Soc. zool. France.—Causeries scientifiques de la Société zoologique de France. 8°. Paris.

Cellule.—La Cellule: Recueil de Cytologie et d'Histologie générale. 4°. Lierre & Louvain.

Centralbl. Bakt. Parasit.—Centralblatt für Bakteriologie, Parasitenkunde, und Infektionskrankheiten. 8°. Jena.

Coll. Académique.—Collection Académique, composée des Mémoires, Actes, ou Journaux des plus célèbres Académies. 4°. Paris.

Comm. Millport Biol. Stat.—Communications from the Millport Marine Biological Station. 8°. Glasgow.

Compt. rend. Acad. Sci.—Comptes rendus hebdomadaires des Séances de l'Académie des Sciences. 4°. Paris.

Compt. rend. Assoc. Française.—Compte rendu de l'Association Française pour l'avancement des Sciences. 8°. Paris.

Compt. rend. Congr. internat. Zool.—Compte rendu du Congrès international de Zoologie. 8°. (Loc. var.)

Compt. rend. Soc. Biol.—Comptes rendus hebdomadaires des Séances et Mémoires de la Société de Biologie. 8°. Paris.

Compt. rend. Soc. Sci. Toulouse.—Compte rendu de la Societé des Sciences physiques et naturelles de Toulouse. 8°. Toulouse.

Congr. internat. Zool.—Congrès international de Zoologie. 8°. (Title and loc. vary.)

Cons. perman. internat. Explor. Mer.—Conseil permanent international pour l'Exploration de la Mer. 4°. Copenhague.

Cosmos.—Cosmos; Revue encyclopédique hebdomedaire des progrès des Sciences et de leurs applications aux arts et à l'industrie. 8°. Paris.

Danske vid. Selsk. Skrift.—Det kongelige Dansk videnskabernes Selskab Skrifter. Naturvidenskabelig og mathematisk Afdeling. 8°. Kjöbenhavn.

Denkschr. Akad. (Wiss.) Wien.—Denkschriften der kaiserlichen Akademie der Wissenschaften zu Wien. 4°. Wien.

Denkschr. Ges. Jena.—Denkschriften der medecinisch-naturwissenschaftlichen Gesellschaft zu Jena. 4°. Jena.

Denkschr. Schweiz. Ges.—Denkschriften der allgemeinen Schweizerischen Gesellschaft für die gesammten Naturwissenschaften. 4°. Zürich.

Deutsch. Archiv Physiol.—Deutsches Archiv für die Physiologie. (Title varies.) 8°. Halle & Berlin.

Deutsch. Geograph.—Deutsche geographische Blätter. 8°. Bremen & Leipzig.

Dronth. Ges. Schrift.—Schriften der Drontheimischen Gesellschaft. 8°. Kopenhagen & Leipzig.

Edinb. (new) Philos. Jrn.—Edinburgh (new) Philosophical Journal ("new" from 1826). 8°. Edinburgh.

Ephem. Akad. Nat. Cur.—Ephemerides . . . Academia Naturæ curiosum: . . . 4°. Jena. Frankfurt, & Lipsiæ.

Ergebn. Anat. Entwick.—Ergebnisse der Anatomie und Entwicklungsgeschichte. 8°. Wiesbaden.

Ergebn. Physiol.—Ergebnisse der Physiologie. (I Abt. Biochemie; II Abt. Biophysik und Psychophysik.) 8°. Wiesbaden.

Essex Naturalist.—The Essex Naturalist. (Essex Field Club.) 8°. Buckhurst Hill.

Fiskeri-Beretning.—Fiskeri-Beretning. (Includes Beretning fra der Danske biologiske Station.) 8°. Copenhagen.

Forh. Skand. Naturf.—Forhandlingar ved det Skandinaviska Naturforskaremötet. 8°. Christiania.

Forh. Vid.-Selsk. Christ.—Forhandlinger i Videnskabs-Selskabet i Christiania. 8°. Christiania.

Fortschr. Tagsber.—Tagsberichte über die Fortschritte der Natur- und Heilkunde. 8°. Weimar.

Geogr. Jrn.—The Geographical Journal. (Royal Geographical Society.) 8°. London.

Geol. Surv. Canada.—Geological Survey of Canada. Annual Report of the Director. 8°. Ottawa.

Göteborgs Vet. Handl.—Göteborgs kongliga Vetenskaps- och Vitterhets-Samhället Handlingar. 8°. Götheborg.

Institut.—L'Institut. fol. Paris.

Internat. Cat. Sci. Lit.—International Catalogue of Scientific Literature. 8°. London.

Internat. Jrn. Micr.—The International Journal of Microscopy and Natural Science. 8°. London.

Internat. Rev. Hydrobiol.—Internationale Revue der gesammten Hydrobiologie und Hydrographie. 8°. Leipzig.

Irish Naturalist.—The Irish Naturalist. 8°. Dublin.

Isis.—Isis, oder Enclyclopädische Zeitung von Oken. 4°. Jena.

Ist. Veneto Scienze.—I. R. Istituto Veneto di Scienze, Lettere, et Arti. 4°. Venezia.

Izv. Obshch. Moskov. Univ.—Isvyestiya imperatorskagho obshchestrva . . . Moskovskom Universitetye. 4°. Moscow.

Jahrb. Hamburg. wiss. Anst.—Jahrbuch der Hamburgischen wissenschaftlichen Anstalten. 8°. Hamburg.

Jahrb. nassau. Ver. Naturk.—Jahrbücher des nassauischen Vereins für Naturkunde. 8°. Wiesbaden.

Jahrb. Naturg.—Jahrbuch der Naturgeschichte, . . . (I, 1802). 8°. Leipzig.

Jahresb. Anat. Physiol.—Jahresbericht über die Fortschritte der Anatomie und Physiologie. 8°. Bonn.

Jahresb. Ges. Hannover.—Jahresbericht der naturhistorischen Gesellschaft zu Hannover. 8°. Hannover.

Jahresb. Westfäl. Prov.-Ver.—Jahresbericht des Westfälischen Provinzial-Vereins für Wissenschaft und Kunst. 8°. Münster.

Jahresb. zool. Stat. Neapel.—See *Zool. Jahresb.*

Japiski Kiev Obshch.—Japīskī Kievskoe Obshchestvo Estestvoīspuitateleī. [Kiev Naturalists' Society.] 8°. Kiev.

Jena. Zeitschr. Naturw.—Jenaische Zeitschrift für Naturwissenschaft. 8°. Jena.

Johns Hopkins Univ. Circ.—Johns Hopkins University Circulars. 4°. Baltimore.

Jrn. Acad. Philad.—Journal of the Academy of Natural Sciences of Philadelphia. 8°. Philadelphia.

Jrn. Anat. Physiol.—The Journal of Anatomy and Physiology. 8°. London and Cambridge.

Jrn. Anat. Physiol. (Robin).—Journal de l'Anatomie et de Physiologie normales et pathologiques de l'homme et des animaux (fondé par C. Robin). 8°. Paris.

Jrn. Coll. Sci. Tokyo.—Journal of the College of Science, Imperial University of Tokyo, Japan. 4°. Tōkyō.

Jrn. Comp. Neurology.—Journal of Comparative Neurology and Psychology. 8°. Philadelphia.

Jrn. Conchyl.—Journal de Conchyliologie. 8°. Paris.

Jrn. Exper. Zool.—The Journal of Experimental Zoology. 8°. Baltimore.

Jrn. I. Man N. H. Soc.—The Journal of the Isle of Man Natural History and Antiquarian Society. 8°. Douglas.

Jrn. Linn. Soc. Lond., Zool.—Journal of the Linnean Society of London. Zoology. 8°. London.

Jrn. Marine Biol. Assoc.—Journal of the Marine Biological Association of the United Kingdom. 8°. Plymouth.

Jrn. Marine Zool.—Journal of Marine Zoology and Microscopy. 8°. Jersey.

Jrn. Microg.—Journal de Micrographie. 8°. Paris.

Jrn. Morphol.—Journal of Morphology. 8°. Boston, U.S.A.

Jrn. Oxford Univ. Club.—Journal of the Oxford University Junior Scientific Club. 8°. Oxford.

Jrn. Physiol.—The Journal of Physiology (Foster's). 8°. Cambridge.

Jrn. Physique.—Journal de Physique, de Chemie, et d'Histoire naturelle. (Cont. of *Obs. Physique*, q. v.) 4°. Paris.

Jrn. Quekett Micr. Club.—The Journal of the Quekett Microscopical Club. 8°. London.

Jrn. R. Inst. Cornwall.—Journal of the Royal Institution of Cornwall. 8°. Truro.

Jrn. R. Micr. Soc.—Journal of the Royal Microscopical Society. 8°. London.

Jrn. R. Soc. N. S. Wales.—Journal and Proceedings of the Royal Society of New South Wales. 8°. Sydney.

Jrn. Zoologie.—Journal de Zoologie. 8°. Paris.

Kolon. Mus. Haarlem.—Koloniaal Museum. Nederlandische Maatschappij ter Bevordering van Nijverheid. 8°. Haarlem.

Korr.-bl. Nat.-Ver. Riga.—Korrespondenzblatt des Naturforscher-Vereins zu Riga. 8°. Riga.

Kosmos.—Kosmos. Zeitschrift für (Entwickelungslehre und) einheitliche Weltanschauung. (Title varies.) 8°. Stuttgart.

Leopoldina.—Leopoldina. Amtliches Organ der k. Leopoldinisch-carolinischen deutschen Akademie der Naturforscher. 4°. Halle, &c.

Lioar Manninagh.—Yn Líoar Manninagh. (Isle of Man Nat. Hist. Soc.) 8°. Douglas.

Lit. Centralbl. Deutschl.—Literarisches Centralblatt für Deutschland. 8°. Leipzig.

Lond. Edinb. Phil. Mag.—London and Edinburgh Philosophical Magazine and Journal of Science. 8°. London.

London Medical Repos.—The London Medical Repository, monthly journal and review. 8°. London.

Lotos.—Deutscher naturwissenschaftlich-medicinischer Verein für Boehmen "Lotos." 8°. Prague.

Mag. Nat. Hist.—The Magazine of Natural History. 8°. London.

Mag. Naturgesch.—Magazin für das Neuste aus der Physik und Naturgeschichte. 8°. Gotha.

Mag. Naturkunde.—Magazin für allgemeine Naturkunde und Thier-Geschichte. 8°. Göttingen, Leipzig.

Mag. Naturvid.—Magazin for Naturvidenskaberne. 8°. Christiania.

Mag. Phys. Natury.—Magazin für das Neuste aus der Physik und Naturgeschichte. 8°. Gotha.

Mag. Zool.—Magazin de Zoologie. 8°. Paris.

Medd. Grönland.—Meddelelser om Grönland, . . . 8°. Kjöbenhavn.

Medd. kongl. Landtbr.—Meddelanden från kongl. Landtbruksstyrelsen. 8°. Uppsala.

Medd. Soc. Fauna Fenn.—Meddelanden af Societas pro Fauna et Flora Fennica. 8°. Helsingfors.

Mém. Acad. (Sci.) (Inst.) France.—Mémoires de l'Académie des Sciences de l'Institut de France. 4°. Paris.

Mém. Acad. Sci. Montpell.—Mémoires de la section des Sciences de l'Académie des Sciences et Lettres de Montpellier. 4°. Montpellier.

Mém. Acad. Sci. St. Pétersb.—Mémoires de l'Académie impériale des Sciences de Saint-Pétersbourg. 4°. St. Pétersbourg.

Mem. Accad. Sci. Napoli.—Memorie della Reale Accademia delle Scienze fisiche e matematiche di Napoli. 4°. Napoli.

Mem. Boston Soc. Nat. Hist.—Memoirs read before the Boston Society of Natural History. 4°. Boston (U.S.A.).

Mem. Challenger Soc.—Memoirs of the Challenger Society. 8°. London.

Mém. Inst. Genèv.—Mémoires de l'Institut national Genèvois. 4°. Genève.

Mem. Johns Hopkins Univ.—Memoirs from the Biological Laboratory of the Johns Hopkins University. 4°. Baltimore.

Mem. Manch. Lit. Phil. Soc.—Memoirs and Proceedings of the Manchester Literary and Philosophical Society. 8°. Manchester.

Mém. Math. Phys. Acad. Sci.—Mémoires de Mathematique et de Physique de l'Académie royale des Sciences. 4°. Paris.

Mem. Mus. Comp. Zool.—Memoirs of the Museum of Comparative Zoology at Harvard College. 4°. Cambridge, Mass.

Mém. Mus. Hist. nat.—Mémoires du Muséum d'Histoire naturelle. 4°. Paris.

Mem. National Acad. Sci.—Memoirs of the National Academy of Sciences. 4°. Washington.

Mém. Soc. Biol. Paris.—Mémoires de la Société de Biologie. 8°. Paris.

Mém. Soc. Genève.—Mémoires de la Societé de Physique et d'Histoire naturelle de Genève. 4°. Genève.

Mém. Soc. Linn. Nord France.—Mémoires de la Société Linnéenne du Nord de la France. 8°. Amiens.

Mém. Soc. zool. France.—Mémoires de la Société zoologique de France. 8°. Paris.

Mem. Wernerian Soc.—Memoirs of the Wernerian Natural History Society. 8°. Edinburgh.

Micros. Jrn.—Microscopical Journal and Structural Record. 8°. London.

Minnesota Geol. Surv. Bull.—Geological and Natural History Survey of the State of Minnesota. Bulletin. 8°. St. Paul & Minneapolis.

Mitth. deutsch. Ostasiens Tokyo.—Mittheilung der deutschen Gesellschaft für Natur- und Völkerkunde Ostasiens in Tokyo. 8°. Yokohama.

Mitt. deutsch. Seefisch.-Ver.—Mitteilungen des deutschen Seefischerei-Vereins. 8°. Berlin.

Mitt. nat. Mus. Hamburg.—Mitteilungen aus dem naturhistorischen Museum in Hamburg. 8°. Hamburg.

Mitth. pharm. Inst. Erlangen.—Mittheilung aus den pharmaceutischen Institute . . . der Universität Erlangen. 8°. München.

Mitth. zool. Stat. Neapel.—Mittheilung aus der zoologischen Station zu Neapel. 8°. Berlin.

Monatsb. Akad. Wiss. Berlin.—Monatsberichte der königlich-preussischen Akademie der Wissenschaften zu Berlin. 8°. Berlin.

Monit. Zool. Ital.—Monitore Zoologico Italiano. 8°. Firenze.

Monthly Internat. Jrn. Anat. (Physiol.).—Monthly International Journal of Anatomy and Physiology. (Title varies.) 8°. London, &c.

Monthly Micr. Jrn.—Monthly Microscopical Journal. 8°. London.

Morphol. Jahrb.—Morphologisches Jahrbuch: eine Zeitschrift für Anatomie und Entwickelungsgeschichte. 8°. Leipzig.

Münch. medizin. Wochenschr.—Münchener medicinische Wochenschrift. 4°. München.

Nachr. Ges. Wiss. Göttingen.—Nachrichten von der königl. Gesellschaft der Wissenschaften und der Georg Augusts Universität zu Göttingen. 8°. Göttingen.

Nat. Science.—Natural Science: a monthly review of scientific progress. 8°. London & New York.

Nat. Tidsskrift.—Naturhistorisk Tidsskrift. 8°. Kjöbenhavn.

Nat. Tijdschr. Nederl. Ind.—Natuurkundig Tijdschrift voor Nederlandsch-Indie. 8°. Batavia.

Naturaliste.—Le Naturaliste. 8°. Paris.

Nature.—Nature: a weekly illustrated journal of Science. 12°. London.

Naturforscher.—Der Naturforscher. Wochenblatt zur Verbreitung der Fortschritte in den Naturwissenschaften. fol. Tubingen.

Naturw. Woch(enschr).—Naturwissenschaftlichen Wochenschrift. 4°. Jena.

Nederl. Maatsch. Haarlem.—Nederlandsche Maatschappij ter Bevordering van Nijverheid. Koloniaal Museum. 8° and 4°. Haarlem.

Neue Denkschr. Schweiz. Ges.—See *Denkschr. Schweiz. Ges.*

Neue Notizen.—See *Notizen.*

Norske Vid.-Selsk. Skrift.—Det kongelige Norske Videnskabernes-Selskabs Skrifter. 8°. Trondhjem.

Notizen.—Notizen aus dem Gebiete der Natur- und Heilkunde. (Neue Notizen, 1837–46.) 4°. Weimar.

Nouv. Bull. Sciences.—See *Bull. Soc. philom. Paris.*

Nouv. Bull. Soc. philom.—See *Bull. Soc. philom. Paris.*

Nouv. Mém. Acad. (Sci.) Belg.—Nouveaux Mémoires de l'Académie royale des Sciences, des Lettres, et des Beaux-Arts de Belgique. 4°. Bruxelles.

Nouv. Mém. Soc. Helvet.—Nouveaux Mémoires de la Société Helvétique des Sciences naturelles. 4°. Zurich.

Nova Acta Acad. Leop.-Car.—Nova Acta Academiæ Cæsaræ Leopoldino-Carolinæ Germanicæ naturæ curiosum. 4°. Halle, &c.

Nova Acta Acad. sci. Petropol.—Nova Acta Academiæ scientiarum imperialis Petropolitanæ. 4°. Petropoli [St. Petersburg].

Nya Handl. Vet. Akad.—See *Svenska Vet. Akad. Handl.* (Nya 1780–1812.)

Nyt Mag. Naturvid.—Nyt Magazin for Naturvidenskaberne. 8°. Christiania.

Obs. Physique.—Observations et Mémoires sur la Physique, sur l'Histoire naturelle, et sur les Arts. (To 1793; Journal de Physique from 1794.) 4°. Paris.

Oefvers Svenska Vet.-Akad. Förh.—Oefversigt af kongelige Svenska Vetenskaps-Akademie. Förhandlingar. 8°. Stockholm.

Opusc. scelti Scienze.—Opuscoli scelti sulle Scienze e sulle Arti. 4°. Milano.

Overs. Danske Vid. Selsk. Forh.—Oversigt over det kongelige Danske Videnskabernes Selskab. Forhandlinger. 8°. Kjöbenhavn.

Owens Coll. Mus. Handb.—Owens College Museum Handbooks, Manchester Museum. 8°. Manchester.

Phil. Trans. Roy. Soc.—Philosophical Transactions of the Royal Society of London. 4°. London.

Pop. Sci. Review.—Popular Science Review. 8°. London.

Preuss. Jahrb.—Preussische Jahrbücher. 8°. Berlin.

Proc. Acad. Philad.—Proceedings of the Academy of Natural Sciences of Philadelphia. 8°. Philadelphia.

Proc. Amer. Acad. Arts Sci.—Proceedings of the American Academy of Arts and Sciences. 8°. Boston.

Proc. Amer. Assoc.—Proceedings of the American Association for the advancement of Science. 8°. Salem.

Proc. Ashmol. Soc.—Proceedings of the Ashmolean Society of Oxford. 8°. Oxford.

Proc. Belfast Nat. Field Club.—Proceedings of the Belfast Naturalists' Field Club. 8°. Belfast.

Proc. Boston. Soc. Nat. Hist.—Proceedings of the Boston Society of Natural History. 8°. Boston, U.S.A.

Proc. California Acad., Zool.—Proceedings of the California Academy of Sciences. Zoology. 8°. San Francisco.

Proc. Dublin Micr. Club.—Minutes of the Proceedings of the Dublin Microscopical Club. 8°. Dublin.

Proc. Essex Inst.—Proceedings of the Essex Institute. 8°. Salem.

Proc. Internat. Zool. Congr.—Proceedings of the International Zoological Congress. 8°. Cambridge.

Proc. Linn. Soc. Lond.—Proceedings of the Linnean Society of London. 8°. London.

Proc. Linn. Soc. N. S. Wales.—Proceedings of the Linnean Society of New South Wales. 8°. Sydney.

Proc. Lit. Phil. Soc. Liverp.—Proceedings of the Literary and Philosophical Society of Liverpool. 8°. London & Liverpool.

Proc. Liverp. Biol. Soc.—Proceedings and Transactions of the Liverpool Biological Society. 8°. Liverpool.

Proc. Liverp. Geol. Soc.—Proceedings of the Liverpool Geological Society. 8°. Liverpool.

Proc. Portland Soc.—Proceeding of the Portland Society of Natural History. 8°. Portland.

Proc. Roy. Inst.—Notices of the Proceedings at the Meetings of the Members of the Royal Institution of Great Britain, . . . 8°. London.

Proc. Roy. Irish Acad.—Proceedings of the Royal Irish Academy. 8°. Dublin.

Proc. Roy. Phys. Soc. Edinb.—Proceedings of the Royal Physical Society of Edinburgh. 8°. Edinburgh.

Proc. Roy. Soc. Canada.—Proceedings and Transactions of the Royal Society of Canada. 8°. Ottawa.

Proc. Roy. Soc. Edinb.—Proceedings of the Royal Society of Edinburgh. 8°. Edinburgh.

Proc. Roy. Soc. Lond.—Proceedings of the Royal Society of London. 8°. London.

Proc. U. S. Nation. Mus.—Proceedings of the United States National Museum. 8°. Washington.

Proc. Washington Acad.—Proceedings of the Washington Academy of Sciences. 8°. Washington.

Proc. Yorks. Geol. Soc.—Proceedings of the Yorkshire Geological and Polytechnic Society. 8°. Halifax.

Proc. Zool. Soc. Lond.—Proceedings of the Scientific Meetings of the Zoological Society of London. 8°. London.

Progr. Univ. Warshau.—Universitetskija izvěstiga Varšavskij. 8°. Warshau.

Pr.-verb. Soc. Sci. Bordeaux.—Procès-verbaux de la Société Linnéenne de Bordeaux. 8°. Bordeaux.

Publ. Carnegie Inst.—Carnegie Institute of Washington publications. 4° and 8°. Washington.

Qrt. Jrn. Geol. Soc.—The Quarterly Journal of the Geological Society. 8°. London.

Qrt. Jrn. Micr. Sci.—The Quarterly Journal of Microscopical Science. 8°. London.

Rec. zool. Suisse.—Recueil zoologique Suisse; . . . (to 1892). Revue Suisse de Zoologie (from 1893). 8°. Genève.

Redia.—"Redia." Giornale di Entomologia. 8°. Portici.

Rend. Accad. Sci. Napoli.—Rendiconto dell'Accademia delle Scienze fisiche e matematiche. 4°. Napoli.

Rep. Brit. Assoc.—Report of the British Association for the Advancement of Science. 8°. London.

Rep. (Ceylon) Pearl Oyster Fish.—Report to the Government of Ceylon on the Pearl Oyster Fisheries of the Gulf of Manaar. (Royal Society.) 4°. London.

Rep. Cornw. Polyt. Soc.—Royal Cornwall Polytechnic Society. Annual Report. 8°. Falmouth.

Rep. Danish biol. Stat.—Report of the Danish biological Station to the Board of Agriculture. 8°. Copenhagen.

Rep. Fish. Board Scotl.—Annual Report of the Fishery Board for Scotland. 8°. Edinburgh.

Rep. Fisheries Ireland.—Report on the Sea and Inland Fisheries of Ireland. 8°. Dublin.

Rep. Lanc. Sea-fish Lab.—Report of the Lancashire Sea-fish Laboratory. 8°. Liverpool.

Rep. Liverp. Micr. Soc.—Annual Report of the Liverpool Microscopical Society. 8°. Liverpool.

Rep. Peabody Acad. Sci.—Peabody Academy of Sciences. Annual Report of the Trustees. 8°. Salem, Mass.

Rep. Smithson. Inst.—Annual Report of the Board of Regents of the Smithsonian Institution. 8°. Washington.

Rep. U. S. Fish. Comm.—United States Commission of Fish and Fisheries. Report of the Commissioner. 8°. Washington.

Rev. biol. Nord France.—Revue biologique du Nord de la France. 8°. Lille.

Rev. internat. Enseignem.—Revue internationale de l'Enseignement. 8°. Paris.

Rev. Mag. Zool.—Revue et Magazin de Zoologie, pure et appliquée. 8°. Paris.

Rev. scient.—Revue scientifique. 4°. Paris.

Rev. Sci. nat. Montpell.—Revue des Sciences naturelles. 8°. Montpellier.

Rev. Sci. nat. St. Pétersb.—Revue des Sciences naturelles. Publiée par la Société des Naturalistes à St. Pétersbourg. 8°. St. Pétersbourg.

Rev. Suisse Zool.—Revue Suisse de Zoologie et Annales du Musée d'Histoire naturelle de Genève. 8°. Genève.

Ric. Labor. anat. Roma.—Ricerche fatte nel Laboratorio di anatomie normale della R. Università di Roma. 4°. Roma.

Rivista Marittima.—Rivista Marittima. 8°. Roma.

Rozpr. Akad. Kraków.—Rozprwy i Sprawozdania z posiedzeń wydzialu matematyczno-przyrodniczego Akademii Umiejętnósci. 8°. Kraków.

Rozpr. Akad. Umiejętnósci. See *Rozpr. Akad. Kraków.*

Schr. Ges. Königsb.—Schriften der physikalisch-ökonomischen Gesellschaft zu Königsberg in Preussen. 4°. Königsberg.

Schr. Ver. Schleswig-Holst.—Schriften des naturwissenschaftlichen Vereins für Schleswig-Holstein. 4°. Kiel.

Science.—Science: a weekly journal. 4°. New York.

Sci. Gossip.—Hardwicke's Science Gossip. 4°. London.

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