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CALCUTTA.

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The volume of Zoology is published in three parts:—

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(*a*) Schedules and Indexes in four languages.

(*b*) An Author Catalogue.

Parts II and III contain

(*c*) A Subject Catalogue.

The Subject Catalogue is divided into sections, each of which is denoted by a four-figure number between 0000 and 9999 called a Registration number.

In order to find the papers dealing with a particular subject the reader may either consult the Schedule or the Index to the Schedule. The numbers given in the index are Registration numbers, and can be used at once for turning to the proper page of the Subject Index. This is done by looking at the numbers at the outer top corners of the pages.

If the reader remember the name of the author of a paper on a given subject, he will probably find it convenient to refer to the Author Catalogue rather than to the Subject Catalogue.

In the Author Catalogue the numbers placed within square brackets at the end of each entry are Registration numbers, and serve to indicate the scope of each paper indexed. The meaning of these numbers will at once be found by reference to the Schedule.

In case the abbreviated titles of Journals are not understood, a key to these is provided at the end of the volume.

The literature indexed is mainly that of 1903, but includes those portions of the literature of 1901 and 1902 for which the date on which the index slips were received by the Central Bureau was too late for inclusion in the previous volumes.

Topographical Symbols.

Many of the sections are sub-divided into a number of sub-sections by means of topographical symbols. These symbols are letters printed in italics. They are explained in the topographical classification. The topographical symbols are not intended to be used instead of registration numbers.

ZOOLOGICAL GARDEN
CALCUTTA

INDEX.

		PAGES
5003–5031	PROCHORDATA	1– 8
5203–5231	VERTEBRATA	9– 20
5403–5431	PISCES	21– 96
5603–5631	BATRACHIA AND REPTILIA	97–139
5803–5831	AVES	141–281
6003–6031	MAMMALIA	283–385
	LIST OF JOURNALS	387–421
	TOPOGRAPHICAL CLASSIFICATION	423–438

ZOOLOGICAL GARDEN 5003 Kolkata 700027 ALIPORE
Accn. 803. dt. 23/12/96.

5003-5031 PROCHORDATA, VIZ., AMPHIOXUS (OR LEPTOCARDII), ENTEROPNEUSTA, TUNICATA.

TITLES.

Andersson, K. A. Eine Wiederentdeckung von *Cephalodiscus* (M'Intosh) (Vorläuf. Mitt.). Zool. Anz., Leipzig, **26,** 1903, (368–369). [5031]. 1

Bancroft, Frank W. Variation and fusion of colonies in compound Ascidians. [With bibliography]. San Francisco, Proc. Cal. Acad. Sci., (Ser. 3), **3,** 1903, (137–186, with 1 pl.). Separate. 25.3 cm. [5011 5023 5031]. 1A

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Bonnier, Jules et **Pérez,** Charles. Sur un mode nouveau de constitution de la chaine chez une Salpe nouvelle du golfe Persique (*Stephanosalpa polyzona*). Paris, C.-R. Acad. sci., **136,** 1903, (621–622). [5007 5015 5027 *el* 5031]. 3

Bourne, Gilbert C. *Oligotrema psammites;* a new Ascidian belonging to the family *Molgulidae*. London, Q. J. Microsc. Sci., (N. Ser.), **47,** 1903, (233–272, pls. XIX–XXIII, 3 figs. in text); [abstract], London, J. R. Microsc. Soc., **1903,** (602–603). [5031]. 4

Damas, Désiré. Recherches sur le développement des molgules. Arch. biol., Paris–Liège, **18,** 1902, (599–663, av. 4 pls.) [5015 5031]. 5

Dogiel, A[lexander] S. Das periphere Nervensystem des Amphioxus (*Branchiostoma lanceolatum*). Anat. Hefte, Wiesbaden, Abt. 1, **21,** 1903, (145–213, mit 9 Taf.). [5007 5031]. 6

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Goodrich, E. S. On the body-cavities and nephridia of the *Actinotrocha* larva. London, Q. J. Microsc. Sci., **47,** 1903, (103–121, with 2 pls.) [5007 5031]. 8

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Harmer, Sidney F. On new localities for *Cephalodiscus*. Zool. Anz., Leipzig, **26,** 1903, (593–594). [5019 5031]. 10

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——— Ueber Varietätenbildung und eine geographische Varietät von *Ciona intestinalis* (L.). Berlin, SitzBer. Ges. natf. Freunde, **1902,** (203–205). [5031 5023 5027]. 11

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Todaro, F. Sopra gli organi escretori delle Salpidi. Roma, Rend. Acc. Lincei, (Ser. 5), **11**, (1° Sem.), 1902, (405-417, con fig.). [5007 5031]. 26

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5019 ETHOLOGY.

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HABITAT.

Harmer, Sidney F. On new localities for *Cephalodiscus*. Zool. Anz., Leipzig, **26**, 1903, (593–594).

5023 VARIATION AND ÆTIOLOGY.

Bancroft, Frank W. Variation and fusion of colonies in compound Ascidians. [With bibliography.] San Francisco, Proc. Cal. Acad. Sci., (Ser. 3), **3**, 1903, (137–186, with 1 pl.).

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——— [Metamerism in the *Enteropneusta*]. *l.c.* (669).

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Hartmeyer, R. Ueber Varietätenbildung und eine geographische Varietät von *Ciona intestinalis* (L.). Berlin, SitzBer. Ges. natf. Freunde, **1902**, (203–205).

d EUROPE.

de BRITISH ISLANDS.

Todd, R. A. Notes on the Invertebrate fauna and fish-food of the bays between the Start and Exmouth. Plymouth, J. Mar. Biol. Ass., **6**, 1903, (541–561).

dk AUSTRIA.

Graeffe, E. [Tunicaten] des Golfes von Triest. . . . Wien, Arb. Zool. Inst. Univ., **15**, 1903, (97–112).

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Menon, K. R. Enteropneusta from Madras. Q. J. Microsc. Sci., London, **47**, 1903, (123–131, with 1 pl.).

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Bonnier, Jules et **Pérez**, Charles. Sur un mode nouveau de constitution de la chaine chez une Salpe nouvelle du

golfe Persique (*Stephanosalpa polyzona*). Paris, C.-R. Acad. sci., **136**, 1903, (621–622).

k ARCTIC.

Hartmeyer, Robert. Die Ascidien der Arktis. Fauna Arctica, Jena, **3**, 1903, (91–412, mit 11 Taf.).

m INDIAN OCEAN.

mn INDIAN OCEAN AND ISLANDS N. OF EQUATOR.

Forster Cooper. Cephalochordata. Fauna of the Maldive and Laccadive Islands, **1**, (347–360).

Punnett, R. C. The Enteropneusta. *l.c.* **II**, 2, (631–680, pls. XXXVII–XLVI).

n PACIFIC.

nd SANDWICH ISLANDS.

Perkins, R. C. L. Reptilia. Fauna Hawaiiensis, **1**, 1903, pt. IV, (365–368).

5031 TAXONOMY AND SYSTEMATIC.

GENERAL.

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Nikolskij, A. M. Bibliothek der Naturkunde, redig. von P. I. Brounov u. V. A. Fausek. Kriechthiere und Fische. Lief. V. Nach Brehm und and. Quellen. (Russ.) St. Peterburg, 1903, (2 + 21 + 657–871, av. 82 figs. et 4 pls.).

Tattersall, W. M. Report on the Cephalochordata. In: Herdman's Pearl Oyster Report, London, **1903**, (209–226, 1 pl.).

LEPTOCARDII.

Amphioxus lanceolatus, Bau und Entwicklung der weiblichen Geschlechtsorgane. **Neidert**, Ludwig und **Leiber**, Adolf. Zool. Jahrb., Jena, Abt. f. Anat., **18**, 1903, (187–226, mit 5 Taf.).

Branchiostoma lanceolatum, peripheres Nervensystem. **Dogiel**, A. S. Anat. Hefte, Wiesbaden, Abt. 1, **21**, 1903, (145–213, mit 9 Taf.).

Heteropleuron maldivense n. sp. **Forster Cooper.** Fauna of the Maldive and Laccadive Islands, **1**, (347–360).

ENTEROPNEUSTA.

GENERAL.

Punnett, R. C. The Enteropneusta. [Gardiner's] Fauna and Geography of the Maldive and Laccadive Archipelagoes, **II**, 2, (631–680, pls. xxxvii–xlvi).

SPECIAL.

Actinotrocha, body-cavities and nephridia of the larva. **Goodrich**, E. S. London, Q. J. Microsc. Sci., **47**, 1903, (103–121, with 2 pls.).

Balanoglossus parvulus n. sp. **Punnett**, R. C. [Gardiner's] Fauna and Geography of the Maldive and Laccadive Archipelagoes, **II**, 2, (640–643).

Cephalodiscus, Wiederentdeckung. **Andersson**, K. Zool. Anz., Leipzig, **26**, 1903, (368–369).

——— new localities. **Harmer**, S. F. Zool. Anz., Leipzig, **26**, 1903, (593–594).

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——— *spitzbergense*. Hartmeyer. 10.

BALANOGLOSSUS [Enteropneusta].
——— *parvulus*. Punnett. 20.

BOLTENIA [Tunicata].
——— *thompsoni*. Hartmeyer. 10.

Corellopsis n. gen. [Tunicata]. Hartmeyer. 10.
——— *pedunculata*. Hartmeyer. 10.

DIPLOSOMOIDES [Tunicata].
——— *bathyphilum*. Hartmeyer. 10.
——— *dubium*. Hartmeyer. 10.

DOLICHOGLOSSUS [Enteropneusta].
——— *bourneï*. Menon. 15.

HETEROPLEURON [Leptocardii].
——— *maldivense*. Forster Cooper. 7.

Hypurgon n. gen. [Tunicata]. Sollas. 23.
——— *skeati*. Sollas. 23.

LEPTOCLINUM [Tunicata].
——— *polare*. Hartmeyer. 10.

Molgula [Tunicata].
——— *cynthiaeformis.* Hartmeyer. 10.
——— *römeri.* Hartmeyer. 10.

Oligotrema n. gen. [Tunicata]. Bourne. 4.
——— *psammites.* Bourne. 1.

Ptychodera [Enteropneusta].
——— *asymmetrica.* Punnett. 20.
——— *viridis.* Punnett. 20.

Rhizomolgula [Tunicata].
——— *ritteri.* Hartmeyer. 10.

Spengelia [Enteropneusta].
——— *maldivensis.* Punnett. 20.

Stephanosalpa n. gen. [Tunicata]. Bonnier et Pérez. 3.
——— *polyzoa.* Bonnier et Pérez. 3.

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——— *bisulcata.* Punnett. 20.

ZOOLOGICAL GARDEN CALCUTTA

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Acestrorhamphus n. gen., type, *Hydrocyon hepsetus* Cuv. Paraguay. **Eigenmann**, C. H. and **Kennedy**, C. H. Philadelphia, Pa., Proc. Acad. Nat. Sci., **55**, 1903, (497–537); Washington, D.C., Smithsonian Inst., Misc. Collect. Q., **45**, 1903, (141–148).

Acestrorhynchus n. nom. = *Xiphorhynchus* Agassiz. Paraguay. **Eigenmann**, C. H. and **Kennedy**, C. H. Philadelphia, Pa., Proc. Acad. Nat. Sci., **55**, 1903, (497–537); Washington, D.C., Smithsonian Inst., Misc. Collect. Q., **45**, 1903, (141–148).

Acnodon n. gen. (type *Myleus oligacanthus* Müller and Troschel). **Eigenmann**, C. H. Washington, D.C., Smithsonian Inst. Misc. Collect. Q., **45**, 1903, (141–148).

Alestes nn. spp. Southern Cameroon. **Boulenger**, G. A. London, Proc. Zool. Soc., **1903**, 1, (21–23, pl. I, fig. 1 and 2).

——— *batesii* n. sp. S. Cameroon. **Boulenger**, G. A. Ann. Mag. Nat. Hist., London, (Ser. 7), **12**, 1903, (135).

——— *brevis* n. sp. Lagos, Gold Coast. **Boulenger**, G. A. *l.c.* (594–595).

——— *chaperi*, Sano. = *A. longipinnis*. **Günther**, A. London, Proc. Zool. Soc., **1902**, 2, (338).

——— *nurse* (Rüppell). Description. Cameroon. **Lönnberg**, E. Ann. Mag. Nat. Hist., London, (Ser. 7), **12**, 1903, (37–38).

Anisitsia Eigenmann and Kennedy n. gen., (type, *Axelus notatus* Schomburgk). **Eigenmann**, C. H. Washington, D.C., Smithsonian Inst. Misc. Collect. Q., **45**, 1903, (141–148).

Anostomus (subg. *Lahilliella* Eigenmann and Kennedy, n. subg.) (type, *Schizodon nasutus* Kner). **Eigenmann**, C. H. *l.c.* (144–148).

Aphyocarax nn. spp. Paraguay. **Eigenmann**, C. H. and **Kennedy**, C. H. Philadelphia, Pa., Proc. Acad. Nat. Sci., **55**, 1903, (497–537).

Boulengerella n. gen., (type, *Xiphostoma lateristriga* Boulenger) **Eigenmann**, C. H. Washington, D.C., Smithsonian Inst. Misc. Collect. Q., **45**, 1903, (144–148).

Bryconodon n. gen., (type *B. orthotaenia* Günther). **Eigenmann**, C. H. *l.c.* (144–148).

Characinus squamosus n. sp. Paraguay. **Eigenmann**, C. H. and **Kennedy**, C. H. Philadelphia, Pa., Proc. Acad. Nat. Sci., **55**, 1903, (497–537).

Cheirodon annae McAtee n. sp. Paraguay. **Eigenmann**, C. H. and **Kennedy**, C. H. *l.c.* (497–537).

Colossoma Eigenmann and Kennedy, n. gen., (type *Myletes oculus* Cope). **Eigenmann**, C. H. Washington, D.C., Smithsonian Inst., Misc. Collect. Q., **45**, 1903, (144–148).

Curimatella alburnus var. *australe* n. var. Paraguay. **Eigenmann**, C. H. and **Kennedy**, C. H. Philadelphia, Pa., Proc. Acad. Nat. Sci., **55**, 1903, (497–537).

Curimatus elegans var. *paraguayensis* n. var., *C. gilli* n. sp., Paraguay. **Eigenmann**, C. H. and **Kennedy**, C. H. *l.c.* (497–537).

Eucrenuella n. gen., (type *Cynopotamus biserialis* Garman). **Eigenmann**, C. H. Washington, D.C., Smithsonian Inst., Misc. Collect. Q., **45**, 1903, (144–148).

Gilbertella n. gen., (type *Anacyrtus alatus* Steind). **Eigenmann**, C. H. *l.c.* (144–148).

Hemigrammus nn. spp. Paraguay. **Eigenmann**, C. H. and **Kennedy**, C. H. Philapelphia, Pa., Proc. Acad. Nat. Sci., **55**, 1903, (497–537).

Hemiodus orthonops n. sp. Paraguay. **Eigenmann**, C. H. and **Kennedy**, C. H. *l.c.* (497–537).

Holoprion n. gen., (type *Cheirodon agassizii* Steind.). **Eigenmann**, C. H. Washington, D.C., Smithsonian Inst., Misc. Collect. Q., **45**, 1903, (144–148).

Holopristis n. gen., (type *Tetragonopterus ocellifer* Steind.). **Eigenmann**, C. H. *l.c.* (145).

Holoshesthes n. gen., (type *Cheirodon pequira* Steind.). **Eigenmann**, C. H. *l.c.* (144–148).

Hoplisas n. nom. = *Macrodon* Müller. **Gill**, T. Washington, D.C., Proc. Biol. Soc., **16**, 1903, (50).

Markiana n. gen., (type *Tetragonopterus nigripinnis* Perugia). **Eigenmann**, C. H. Washington, D.C., Smithsonian Inst., Misc. Collect. Q., **45**, 1903, (144–148).

Metynnis (subg. *Mylecodlops* n. subg.) (type *M. goeldii* Eigenmann = *Myletes lippencottianus* Ulrey not Cope). **Eigenmann**, C. H. *l.c.* (144–148).

——— *mola* n. sp. Paraguay. **Eigenmann**, C. H. and **Kennedy**, C. H. Philadelphia, Pa., Proc. Acad. Nat. Sci., **55**, 1903, (497–537).

Moenkhausia n. gen., (type *Tetragonopterus xinguensis* Steind.). **Eigenmann**, Carl H. Washington, D.C., Smithsonian Inst., Misc. Collect. Q., **45**, 1903, (144–148).

Mylcus (subg. *Orthomylcus* n. subg.) **Eigenmann**, C. H. *l.c.* (144–145).

Mylossoma Eigenmann and Kennedy, (type *Myletes albiscopus* Cope). **Eigenmann**, Carl H. *l.c.* (144–148).

Nannocharax intermedius n. sp. S. Cameroons. **Boulenger**, G. A. Ann. Mag. Nat. Hist., London, (Ser. 7), **12**, 1903, (437).

Odontostilbe nn. spp. Paraguay. **Eigenmann**, C. H. and **Kennedy**, C. H. Philadelphia, Pa., Proc. Acad. Nat. Sci., **55**, 1903, (497–537).

Othonophanes n. gen., (type *Bryeon labiatus* Steind.). **Eigenmann**, C. H. Washington, D.C., Smithsonian Inst., Misc. Collect. Q., **45**, 1903, (144–148).

Petersius major n. sp. S. Cameroons. **Boulenger**, G. A. Ann. Mag. Nat. Hist., London, (Ser. 7), **12**, 1903, (436).

Piabucina nn. spp. South America. **Regan**, C. T. *l.c.* (622–623).

Piaractus n. gen., (type *Myletes brachypomus* Cuv.). **Eigenmann,** C. H. Washington, D.C., Smithsonian Inst., Misc. Collect. Q., **45,** 1903, (144-148).

Poeciluriehthys mocukhausii n. sp. Paraguay. **Eigenmann,** C. H. and **Kennedy,** C. H. Philadelphia, Pa., Proc. Acad. Nat. Sci., **55,** 1903, (497-537).

Psectrogaster curviventris n. sp. Paraguay. **Eigenmann,** C. H. and **Kennedy,** C. H. *l.c.*

Pyrrhulina australe n. sp. Paraguay. **Eigenmann,** C. H. and **Kennedy,** C. H. *l.c.*

Stichonodon. n. nom. *Lütkenia.* **Eigenmann,** Carl H. Washington, D.C., Smithsonian Inst., Misc. Collect. Q., **45,** 1903, (144-148).

CYPRINIDAE.

General.

Chiappi, [T.]. Sopra una forma ibrida di *Ciprinide* existente nei laghi di Varano e Monate. Mon. zool. ital., Firenze, **13,** 1902, (Supplemento) (28-30).

Evermann, B. W. Bait minnows. New York, Forest Fish Game Com. Rep., Albany, **1900,** 1901, (307-352, with col. pl. and text fig.).

Jordan, D. S. and **Fowler,** H. W. A review of the *Cobitidae,* or loaches, of the rivers of Japan. Washington, D.C., Smithsonian Inst., Nation. Mus. Proc., **26,** 1903, (1 l. + (763-774) with fig. in text).

——— ——— A review of the Cyprinoid fishes of Japan. *l.c.* (811-862, with fig. in text). Separate. 24.5 cm.

Special.

Abbottina n. gen., *A. psegma* n. sp. Japan. **Jordan,** D. S. and **Fowler,** H. W. Washington, D.C., Smithsonian Inst. Nation. Mus. Proc., **26,** 1903, (835).

Abramis vimba in Galicia. **Roswadowski,** J. Okóln. Tow. Ryb., Kraków, **1903,** (27-31, av. 1 pl.).

Acanthophthalmus shelfordii n. sp. **Popta,** C. M. L. Leiden, Notes Mus. Jentink, **23,** 1903 (231-233).

Achcilognathus cyanostigma n. sp. Japan. **Jordan,** D. S. and **Fowler,** H. W. Washington, D.C., Smithsonian Inst. Nation. Mus. Proc., **26,** 1903, (820).

Agosia robusta n. sp. California. **Rutter,** C. Washington, D.C., Bull. U. S. Fish Com., **22,** (1902), 1903, (143-148, with text fig.).

Algansea rubescens n. sp. Mexico. **Meek,** S. E. Chicago, Ill., Pub. Field Columb. Mus., Zool. Ser., **3,** 1902, (63-128, with pl.).

Aztecula mexicana n. sp. Mexico. **Meek,** S. E. *l.c.*

Barbus nn. spp. Niger Delta. **Boulenger,** G. A. London, Proc. Zool. Soc., **1902,** 2, (327, pl. XXVIII); S. Cameroon, **1903,** 1, (24-25, pls. II-III); E. Africa, **1903,** 2, (331-332); E. Africa, Ann. Mag. Nat. Hist., London, (Ser. 7), **11,** 1903, (52-54); Victoria Nyanza, **12,** 1903, (218); S. Cameroon, *ib.,* (437); Nile, *ib.,* (532-533).

Biwia n. gen., type *Pseudogobio zezera* Ishikawa. Japan. **Jordan,** D. S. and **Fowler,** H. W. Washington, D.C., Smithsonian Inst. Nation. Mus. Proc., **26,** 1903, (838).

Catostomus nn. spp. Mexico. **Meek,** S. E. Chicago, Ill., Pub. Field Columb. Mus., Zool. Ser., **3,** 1902, (63-128, with pl.).

Chasmistes chamberlaini n. sp. California. **Rutter,** C. Washington, D.C., Bull. U. S. Fish Com., **22,** (1902), 1903, (143-148).

Chondrostoma nasus in Galicia. **Rozwadowski,** J. Okóln. Tow. Ryb., Krakow, **1903,** (24-31, av. 1 pl.).

Cobitis fossilis. **Lauppe,** L. Aus d. Heimat, Stuttgart, **16,** 1903, (7-12).

Cyprinus carpio, Parasit [*Trypanoplasma cyprini* n. sp.] **Plehn,** M. Arch. Protistenkunde, Jena, **3,** 1903, (175-180, mit 1 Taf.).

——— ——— **Walter,** E. Die Karpfennutzung in kleinen Teichen. (J. Neumanns Fischereiwirtschaftliche Büchersammlung.) Neudamm (J. Neumann), 1903, (101).

Discognathus makiensis n. sp. Southern Ethiopia. **Boulenger,** S. A. London, Proc. Zool. Soc., **1903,** 2, (330).

Elzis n. gen., *E. nikkonis* n. sp. **Jordan,** D. S. and **Fowler,** H. W. Washington, D.C., Smithsonian Inst., Nation. Mus. Proc., **26,** 1903, (768).

Evarra thahuacensis n. sp. Mexico. **Meek,** S. E. Chicago, Ill., Pub. Field Columb. Mus., Zool. Ser., **3,** 1902, (63-128).

Gila minaeae n. sp. Mexico. **Meek,** S. E. *l.c.*

Labeo, synopsis of the African species. **Boulenger,** G. A. Ann. Mag. Nat. Hist., London. (Ser. 7), **12,** 1903, (335).

——— *anneteus* n. sp. S. Cameroon. **Boulenger,** G. A. London, Proc. Zool. Soc., **1903,** I, (23-24, pl. II, fig. 1).

——— *falcipennis* n. nom. for *Labeo falcifer.* Congo. **Boulenger,** G. A. Ann. Mag. Nat. Hist., London, (Ser. 7), **12,** 1903, (360).

——— *kirkii* n. sp. East Africa. **Boulenger,** G. A. *l.c.* (360).

——— *neumanni* n. sp. Southern Ethiopia. **Boulenger,** G. A. London, Proc. Zool. Soc., **1903,** II, (329).

——— *victorianus: fuelleborni* n. subsp. **Hilgendorf,** F. and **Pappenheim,** P. Berlin, SitzBer. Ges. natf. Freunde, **1903,** (259-271).

——— *walkeri* n. sp. Gold Coast. **Günther,** A. London, Proc. Zool. Soc., **1902,** 2, (338, pl. XXXIII).

Leucaspius delineatus, monographische Beschreibung. **Vutskits,** G. Allatt. Kozlem., Budapest, **2,** 1903, (169-188, mit Taf. XV).

Leuciscus carletoni n. sp. Maine. **Kendall,** W. C. Washington, D.C., Bull. U.S. Fish Com., **22,** (1902), (334-368).

——— *phalacrocorax* n. sp. Japan. **Jordan,** D.S. and **Fowler,** H. W. Washington, D.C., Smithsonian Inst. Nation. Mus. Proc., **26,** 1903, (845).

Mollienisia latipinna, ein neueingeführter lebendiggebärender Zahnkarpfen. **Schroot,** W. Natur u. Haus, Dresden, **11,** 1903, (193-195).

Nemachilus fedtschenkoae n. sp. Transcaspia (fl. Murgab). **Nikolïskij,** A. M. St. Peterburg, Ann. Mus. zool. Ac. Sc., **8,** 1903, (90-94).

Notropis nn. spp. Mexico. **Evermann,** B. W., and **Goldsborough,** E. L. Washington, D.C., Bull. U. S. Fish Com., **21,** (1901), 1902, (137-159).

——— nn. spp. Mexico. **Meek,** S. E. Chicago, Ill., Pub. Field Columb. Mus., Zool. Ser., **3,** 1902, (63-128).

——— *brimleyi* n. sp. North Carolina. **Bean,** B. A. Washington, D.C., Smithsonian Inst., Nation. Mus., Proc., **26,** 1903, (913-914).

Orthrias n. gen., *O. oreas* n. sp. Japan. **Jordan,** D. S. and **Fowler,** H. W. *l.c.* (769).

Pantosteus lahonton n. sp. California. **Rutter,** C. Washington, D.C., Bull. U. S. Fish Com., **22,** (1902), 1903, (143-148).

Pimephales anuli n. sp. Maine. **Kendall,** W. C. *l.c.* (353-368).

Ptychobarbus kaznakovi n. sp. Tibet orient (fl. Dza-tschju). **Nikolïskij,** A. M. St. Peterburg, Ann. Mus. zool. Ac. Sc., **8,** 1903, (90-94).

Rasbora nn. spp. Sumatra. **Volz,** W. Zool. Anz., Leipzig, **26,** 1903, (553-559).

Scardinius erythrophthalmus con *Leuciscus aula* . . . forma ibrida di Ciprinide esistente nei laghi di Varano e Monate. **Chiappi,** [T.]. Mon. zool. ital., Firenze, **13,** 1902, (Supplemento), (28-30).

Schizothorax kozlovi n. sp. Tibet orient (fl. Dza-tschju). (Russ.) **Nikolïskij,** A. M. St. Peterburg, Ann. Mus. zool. Ac. Sc., **8,** 1903 (90-94).

Zezera n. gen., type, *Sarcocheilichthys hilgendorfi* Ishikawa ms. **Jordan,** D. S. and **Fowler,** H. W. Washington, D.C., Smithsonian Inst. Nation. Mus. Proc., **26,** 1903, (837).

SILURIDAE.

General.

Jordan, D. S. and **Fowler,** H. W. A review of the Siluroid fishes or catfishes [Nematognathi] of Japan. [*Plotosidae* and *Siluridae*]. Washington, D.C., Smithsonian Inst. Nation. Mus. Proc., **26,** 1903, (1 1 + (897-911).

Kendall, W. C. Habits of some of the commercial cat-fishes. [*Siluridae*]. Washington, D.C., Bull. U. S. Fish Com., **22**, (1902), 1903, (399-409).

SPECIAL.

Allabenchelys brevior n. sp. S. Cameroons. **Boulenger**, G. A. Ann. Mag. Nat. Hist., London, (Ser. 7), **12**, 1903, (439).

Amiurus. **God**, A. Nature, Paris, **30**, (2e semest.), 1902, (283-284, av. fig.).

——— *nebulosus*, introduction en Europe, d'Amérique. **Fuhrmann**, O. Arch. Sci. Phys., Genève, (sér. 4), **16**, 1903, (331-332).

——— ——— breeding habits. **Smith**, H. M. and **Harron**, L. G. Washington, D.C., Bull. U. S. Fish Com., **22**, (1902), 1903, (149-154).

Amphilus longirostris, description. **Boulenger**, G. A. London, Proc. Zool. Soc., **1903**, I, (25-26, pl. I, fig. 3).

——— *platychir* Günth. Gold Coast. **Günther**, A. *l.c.* **1902**, 2, (336).

Arius marinus redescribed. **Fowler**, H. W. Philadelphia, Pa. Proc. Acad. Nat. Sci., **55**, 1903, (346-350).

Bagarius lica n. sp. Sumatra. **Volz**, W. Zool. Anz., Leipzig, **26**, 1903, (553-559).

Chiloglanis modjensis n. sp. from southern Ethiopia. **Boulenger**, G. A. London, Proc. Zool. Soc., **1903**, 2, (332-333).

Chrysichthys lagoensis from Gold Coast. **Günther**, A. *l.c.* **1902**, 2, (335).

Clarias carsonii n. sp. British Central Africa. **Boulenger**, G. A. Ann. Mag. Nat. Hist., London, (Ser. 7), **12**, 1903, (362-363).

——— *kingsleyae* n. sp. Gold Coast. **Günther**, A. London, Proc. Zool. Soc., **1902**, 2, (334).

——— *pachynema* n. sp. S. Cameroons. **Boulenger**, G. A. Ann. Mag. Nat. Hist., London, (Ser. 7), **12**, 1903, (438).

Conorhynchos nelsoni n. sp. Yucatan. **Evermann**, B. W. and **Goldsborough**, E. L. Washington, D.C., Bull. U. S. Fish Com., **21**, (1901), 1902, (137-159).

Corydoras nn. spp. Paraguay. **Eigenmann**, C. H. and **Kennedy**, C. H. Philadelphia, Pa., Proc. Acad. Nat. Sci., **55**, 1903, (505-507).

Doras nebulosus n. sp. Paraguay. **Eigenmann**, C. H. and **Kennedy**, C. H. *l.c.* (500).

Fluvidraco n. gen., type *Pseudobagrus ransonnetii* Steindachner. Japan. **Jordan**, D. S. and **Fowler**, H. W. Washington, D.C., Smithsonian Inst., Nation. Mus. Proc., **26**, 1903, (901).

Macrones bleekeri n. sp. Sumatra. **Volz**, W. Zool. Anz., Leipzig, **26**, 1903, (556).

Malopterurus electricus, use of the name *Torpedo* for. **Gill**, T. N. Washington, D.C., Smithsonian Inst., Nation. Mus. Proc., **26**, 1903, (697-698).

Microsynodontis n. gen., *M. batesii* n. sp. S. Cameroons. **Boulenger**, G. A. London, Proc. Zool. Soc., **1903**, I, (26-27, pl. IV).

Notoglanidium n. gen., *N. walkeri* n. sp. Gold Coast. **Günther**, A. *l.c.* **1902**, 2, (336-337, pl. XXXII).

Phractura longicauda n. sp. S. Cameroons. **Boulenger**, G. A. Ann. Mag. Nat. Hist., London, (Ser. 7), **12**, 1903, (439-440).

Pimelodus (*Pimelodella*) nn. spp. South America. **Regan**, C. T. *l.c.* (625-626).

Plotosus nigricans, un exemplaire type, et remarques taxonomiques sur le groupe des *Plotosina*. **Vaillant**, L. Bul. Muséum, Paris, **1903**, (117-120).

Rhamdia oaxacae n. sp. Mexico. **Meek**, S. E. Chicago, Ill., Pub. Field Columb. Mus., Zool. Ser., **3**, 1902, (63-128).

Synodontis fuelleborni n. sp., *S. zambezensis*: *rukwaensis* n. subsp. Rukwa-See, Ost-Afrika. **Hilgendorf**, F. und **Pappenheim**, P. Berlin, SitzBer. Ges. natf. Freunde, **1903**, (265).

——— *melanopterus* n. sp. Niger Dela. **Boulenger**, G. A. London, Proc. Zool. Soc., **1902**, 2, (327, pl. XXXIX).

Trichomycterus nn. spp. South America. **Regan**, C. T. Ann. Mag. Nat. Hist., London, (Ser. 7), **12**, 1903, (623-624).

LORICARIIDAE.

Aeges orientalis n. sp. Venezuela. **Boulenger** G. A. Ann. Mag. Nat. Hist., London (Ser. 7), **11**, 1903, (601–602).

Chaetostomus anomalus n. sp. Venezuela. **Regan**, C. T. *l.c.* (599).

Plecostomus boulengeri n. sp. Paraguay. **Eigenmann**, C. H. and **Kennedy**, C. H. Philadelphia, Pa., Proc. Acad. Nat. Sci., **55**, 1903, (497–537).

Pterygoplichthys nn. spp. Paraguay. **Eigenmann**, C. H. and **Kennedy**, C. H. *l.c.* (503–504).

ASPREDINIDAE.

Bunocephalus rugosus n. sp. Paraguay. **Eigenmann**, C. H. and **Kennedy**, C. H. Philadelphia, Pa., Proc. Acad. Nat. Sci., **55**, 1903, (498).

APODES.

GENERAL.

Allis, E. P. *jun.* The lateral sensory system in the *Muraenidae*. Intern. Monatschr. Anat., Leipzig, **20**, 1903, (125–170, mit 3 Taf.).

Boeke, J. . . . Gastrulation und Keimblätterbildung bei den Muraenoiden. Petrus Camper, Bijdr. Anat., Haarlem, **2**, 1903, (135–210, mit 2 Taf. und Fig.).

Ricci, O. Murenoidi . . . metamorfosi . . . Modena, Atti Soc. nat. mat., (Ser. 4), **4**, 1901, (11–35).

SPECIAL.

Ahlia egmontis. Barbados. **Bean**, B. A. Washington, D.C., Smithsonian Inst., Nation. Mus. Proc., **26**, 1903, (963–964).

Anguilla sulla malattia [di questo pesce]. **Sennebogen**, E. Neptunia, Venezia, **17**, 1902, (135–138, 150–153, 159–163, 171–173).

——— osservazioni intorno alla [loro] semina nelle valli salse. **Voltolina**, V. Neptunia, Venezia, **18**, 1902, (174–176).

——— *chrisypa*, nomenclature. **Clark**, A. H. Washington, D.C., Proc. Biol. Soc., **16**, 1903, (52).

Anguilla vulgaris Flem. Ein Beitrag zur Kenntnis seiner Naturgeschichte sowie seiner wirtschaftlichen Bedeutung. **Leonhardt**, E. Stuttgart, (E. Schweizerbart), 1902, (56).

Anguillavus n. gen. (*Anguillavidae* n. fam.), *A. bathshebae* [, *A quadripennis*] nn. spp. Syria, Upper Cretaceous. **Hay**, O. P. New York, N.Y., Bull. Amer. Mus. Nat. Hist., **19**, 1903, (436–439).

Congrellus bowersi n. sp. Hawaii. **Jenkins**, O. P. Washington, D.C., Bull. U. S. Fish Com., **1902**, 1903, (417–511).

Echidna nn. spp. Hawaii. **Jenkins**, O. P. *l.c.* (417–511).

——— *zonophaca* n. sp. Hawaii. **Jordan**, D. S. and **Evermann**, B. W. *l.c.* **22**, (1902), 1903, (161–208).

Enchelion n. gen., (*Encheliidae* n. fam.), *E. montium*] n. sp. Syria, Upper Cretaceous. **Hay**, O. P. New York, N.Y., Bull. Amer. Mus. Nat. Hist., **19**, 1903, (441).

Gymnothorax nn. spp. Hawaii **Jenkins**, O. P. Washington, D.C., Bull. U. S. Fish Com., **1902**, 1903, (417–511).

——— nn. spp. Hawaii. **Jordan**, D. S. and **Evermann**, B. W. *l.c.* **22**, (1902), 1903, (161–208).

Gymnomuraena brevicauda n. sp. Mauritius. **Regan**, C. T. Rev. Suisse Zool., Genève, **11**, 1903, (418, pl. XIV, fig. 3).

Leptocephalus nn. spp. **Eigenmann**, C. H. and **Kennedy**, C. H. *l.c.* (81–92, with text fig.).

——— *conger*, embryology. **Eigenmann**, C. H. Washington, D.C., Bull. U. S. Fish Com., **21**, 1901, (37–44, with text fig.).

——— *grassii* n. sp. = *Anguilla chrysypa*. **Eigenmann**, C. H. and **Kennedy**, C. H. *l.c.* **21**, 1901, (81–92, with text fig.).

Microdonophis fowleri n. sp. Hawaii. **Jordan**, D. S. and **Evermann**, B. W. *l.c.* **22**, (1902), 1903, (161–208).

——— *macgregori* n. sp. Hawaii. **Jenkins**, O. P. *l.c.* **1902**, 1903, (417–511).

Muraena nn. spp. Hawaii. **Jenkins**, O. P. *l.c.* (417–511).

Muraena grandimaculis n. sp. Rio Janeiro. **Regan,** C. T. Rev. Suisse Zool., Genève, **11,** 1903, (418, pl. XIV, fig. 3).

——— *helena* L., note. **Regan,** C. T. London, Proc. Zool. Soc., **1903,** 2, (60).

——— *kailuae* n. sp. Hawaii. **Jordan,** D. S. and **Evermann,** B. W. Washington, D.C., Bull. U. S. Fish Com., **22,** (1902), 1903, (161–208).

Ophichthys (*Pisodontophis*) *brevimanus* n. sp. South America. **Regan,** C. T. Ann. Mag. Nat. Hist., London, (Ser. 7), **12,** 1903, (622).

——— *versicolor* redescribed and figured. **Waite,** E. R. Sydney, N.S.W., Rec. Austr. Mus., **5,** 1903, (22, pl. III, fig. 1).

Urenchelys germanus† n. sp. Syria, Upper Cretaceous. **Hay,** O. P. New York, N.Y., Bull. Amer. Mus. Nat. Hist., **19,** 1903, (434).

——— *limhamnensis* the same as *Dercetis limhamnensis*. **Woodward,** A. S. Ann. Mag. Nat. Hist., London, (Ser. 7), **12,** 1903, (254–255).

HAPLOMI.

ENCHODONTIDAE.

Enchodus saevus † n. sp. **Hay,** O. P. New York, N.Y., Bull. Amer. Mus. Nat. Hist., **19,** 1903, (76).

SCOPELIDAE.

Acrognathus dodgei † n. sp. Syria, Upper Cretaceous. **Hay,** O. P. New York, N.Y., Bull. Amer. Mus. Nat. Hist., **19,** 1903, (427, pl. XXXIV, fig. 3).

Macristium n. gen., *M. chavesi* n. sp. Azores. **Regan,** C. T. Ann. Mag. Nat. Hist., London, (Ser. 7), **12,** 1903, (345).

Microcoelia dayi† n. sp. Syria, Upper Cretaceous. **Hay,** O. P. New York, N.Y., Bull. Amer. Mus. Nat. Hist., **19, 1903,** (430, pl. XXXI, fig. 3, pl. XXXIV, fig. 1).

Rhinellus delicatus† n. sp. Syria, Upper Cretaceous. **Hay,** O. P. *l.c.* (432).

Rhinoscopelus oceanicus n. sp. Hawaii. **Jordan,** D. S. and **Evermann,** B. W. Washington, D.C., Bull. U. S. Fish Com., **22,** (1902), 1903, (161–208).

Sardinius? *imbellis* † n. sp. **Hay,** O. P. New York, N.Y., Bull. Amer. Mus. Nat. Hist., **19,** 1903, (93).

Skiffia n. gen., *S. lermae, S. variegata* nn. spp. Mexico. **Meek,** S. E. Chicago, Ill., Pub. Field Columb. Mus., Zool. Ser., **3,** 1902, (63–128, with pl.).

Taxus n. gen., *T. riddlei* n. sp. Cuba. **Eigenmann,** C. H. Washington, D.C., Bull. U. S. Fish Com., **22,** (1902), 1903, (211–236, with text fig., pl.).

Xiphophorus jalapae n. sp. Mexico. **Meek,** S. E. Chicago, Ill., Pub. Field Columb. Mus. Zool. Ser., **3,** 1902, (63–128, with pl.).

Zoogeneticus n. gen., *Z. diazi, Z. maniatus* nn. spp. Mexico. **Meek,** S. E. (63–128, with pl.).

KNERIIDAE.

Gill, T. N. The fishes of the African family *Kneriidae*. [New superfamily Knerioidea provisionally associated with Iniomi]. Science, New York, N.Y., (N. Ser.), **18,** 1903, (338–339).

CYPRINODONTIDAE.

Chapalichthys n. gen. Mexico. **Meek,** S. E. Chicago, Ill., Pub. Field Columb. Mus., Zool. Ser., **3,** 1902, (63–128, with pl.).

Fundulus cubensis n. sp. Cuba. **Eigenmann,** C. H. Washington, D.C., Bull. U. S. Fish Com., **22,** (1902), 1903, (211–236, with text fig., pl.).

——— *loennbergi* n. sp. S. Cameroons. **Boulenger,** G. A. Ann. Mag. Nat. Hist., London, (Ser. 7), **12,** 1903, (440–441).

——— *oaxacae* n. sp. Mexico. **Meek,** S. E. Chicago, Ill., Pub. Field Columb. Mus., Zool. Ser., **3,** 1902, (63–128, with pl.).

——— *paraguayensis* n. sp. Paraguay. **Eigenmann,** C. H. and **Kennedy,** C. H. Philadelphia, Pa., Proc. Acad. Nat. Sci., **55,** 1903, (530).

Girardinus garmani n. sp. Cuba. **Eigenmann**, C. H. Washington, D.C., Bull. U. S. Fish Com. **22**, (1902), 1903, (211–236, with text fig., pl.)

Glaridichthys nn. spp. Cuba. **Eigenmann**, C. H. *l.c.* (211–236, with text fig., pl.).

Haplochilus cameroonensis n. sp. S. Cameroons. **Boulenger**, G. A. Ann. Mag. Nat. Hist., London, (Ser. 7), **12**, 1903, (440).

——— *peruanus* n. sp. South America. **Regan**, C. T. *l.c.* (626)

Heterandria cubensis n. sp. Cuba. **Eigenmann**, C. H. Washington, D.C., Bull. U. S. Fish Com., **22**, (1902), 1903, (211–236, with text fig., pl.).

——— *lutzi* n. sp. Mexico. **Meek**, S. E. Chicago, Ill., Pub. Field Columb. Mus., Zool. Ser., **3**, 1902, (63–128, with pl.).

Poecilia. **Brüning**. Natur u. Haus, Dresden, **11**, 1903, (364–366).

——— *limantouri*, color. **Fowler**, H. W. Philadelphia, Pa., Proc. Acad. Nat. Sci., **55**, 1903, (320–323).

GALAXIIDAE.

Mackenzie, A. J. Whitebait of New Zealand. Wellington, Trans. N. Zeal. Inst., **35**, 1903, (309–310).

Special.

Galaxias attenuatus, osteology. **Swinnerton**, H. H. Zool. Jahrb., Jena, Abt. f. Anat., **18**, 1903, (58–70).

HETEROMI.

Dercetis† nn. spp. **Woodward**, A. S. The fossil fishes of the English Chalk. Part II. London, (Palaeontogr. Soc.), 1903, (65–66).

Encheliophis jordani n. sp. **Heller**, E. and **Snodgrass**, R. E. Washington, D.C., Proc. Acad. Sci., **5**, 1903, (220, pl. XVII).

Fierasfer umbratilis n. sp. Hawaii. **Jordan**, D. S. and **Evermann**, B. W. Washington, D.C., Bull. U. S. Fish Com., **22**, (1902), 1903, (161–208).

Leptotrachelus serpentinus† n. sp. Syria, Upper Cretaceous. **Hay**, O. P. New York, N.Y., Bull. Amer. Mus. Nat. Hist., **19**, 1903, (419, pl. XXXII, fig. 1).

Notacanthus annectens n. sp. S. Africa. **Boulenger**, G. A. Cape Town, Marin. Invest., **2**, 1903, (167, pl. XI.)

CATOSTEOMI.

General.

Gill, T. [N.]. On the relations of the fishes of the family *Lamprididae* or Opahs. [Lamproidea n. superfam. of Acanthopterygii]. Washington, D.C., Smithsonian Inst. Nation. Mus. Proc., **26**, 1903, (1 l. + (915–924), with fig. in text).

Siedlecki, M. Sur la résistance des épinoches aux changements de la pression osmotique du milieu ambiant. Paris, C.-R. Acad. sci., **137**, 1903, (469–471).

——— L'action des solutions des sels alcalins et alcalino-terreux sur les épinoches. *l.c.* (525–527).

Srdínko, O. V. Beiträge zur Kenntnis der Nebenniere der Knochenfische. Ueber Bau und Entwicklung der Stannius'schen Körperchen der Lophobranchier. Arch. mikr. Anat., Bonn., **62**, 1903, (773–802, mit 1 Taf.).

Special.

Doryichthys multiannulatus n. sp. Mauritius. **Regan**, C. T. Rev. Suisse Zool., Genève, **11**, 1903, (413, pl. XIII, fig. 2).

Hippocampus nn. spp. Hawaii. **Jordan**, D. S., and **Evermann**, B. W. Washington, D.C., Bull. U. S. Fish. Com., **22**, (1902), 1903, (161–208).

Solenostoma paradoxum. **Regan**, C. T. Fauna Mald. and Laccad., **1**, 1903, (278).

Syngnathus typhle, Bruttasche. **Cohn**, L. Anat. Anz., Jena, **24**, 1903, (192–199).

PERCESOCES.

SCOMBRESOCIDAE.

Belone fluviatilis n. sp. South America. **Regan**, C. T. Ann. Mag. Nat. Hist., London, (Ser. 7), **12**, 1903, (626–627).

Cypsilurus atrisignis n. sp. Hawaii. **Jenkins**, O. P. Washington, D.C., Bull. U. S. Fish Com., **1902**, 1903, (417–511).

Evolantia n. gen. **Heller**, E. and **Snodgrass**, R. E. Washington, D.C., Proc. Acad. Sci., **5**, 1903, (189).

Hyporhamphus kurumeus n. sp. **Jordan**, D. S. and **Starks**, E. C. Washington, D.C., Smithsonian Inst., Nation. Mus. Proc., **25**, 1903, (531).

ATHERINIDAE.

General.

Roule, L. Sur les poissons de la famille des Atherinides dans l'Europe occidentale et sur la filiation de leurs espèces. Paris, C.-R. Acad. sci., **136**, 1903, (824–826).

Special.

Atherina, l'évolution des poissons de ce genre dans les eaux douces et saumâtres du midi de la France. **Roule**, L. Paris, C.-R. Acad. sci., **137**, 1903, (1276–1277).

——— *evermanni* n. sp. Cuba. **Eigenmann**, C. H. Washington, D.C., Bull. U. S. Fish Com., **22**, (1902), 1903, (211–236, with text fig., pl.).

——— *insularum* n. sp. Hawaii. **Jordan**, D. S. and **Evermann**, B. W. *l.c.* (161–208).

Atherinichthys brasiliensis Q. & G., note. **Regan**, C. T. London, Proc. Zool. Soc., **1903**, 2, (60).

Chirostoma nn. spp. Mexico. **Meek**, S. E. Chicago, Ill., Pub. Field Columb. Mus., Zool. Ser., **3**, 1902, (63–128, with pl.).

Melaniris n. gen., *M. balsanus* n. sp. Mexico. **Meek**, S. E. *l.c.* (63–128, with pl.).

Menidia nn. subspp. E. coast United States. **Kendall**, W. C. Washington, D.C., Rep. U. S. Com. Fish, **1901**, 1902, (241–267).

SPHYRAENIDAE.

Sphyraena idiastes n. sp. **Heller**, E. and **Snodgrass**, R. E. Washington, D.C., Proc. Acad. Sci., **5**, 1903, (192).

STROMATEIDAE.

General.

Eigenmann, C. H. [Notes on the characters of *Nomeidae*]. Washington, D.C., Bull. U. S. Fish Com., **21**, 1901, (35–36, with text fig.).

Holt, E. W. L. and **Byrne**, L. W. On the British and Irish species of the family *Stromateidae*. Rep. Fish. Ireland for 1901. Part II, (70–76, pls. IV–V).

Special.

Centrolophus niger Gm. described and figured. **Holt**, E. W. L. and **Byrne**, L. W. Rep. Fish. Ireland for 1901, Part II, (75, pl. V).

——— *pompilus*, la [sua] forma giovanile. **Borsieri**, [C.]. Mon. zool. ital., Firenze, **13**, 1902, (Supplemento), (35–37).

Lirus medusophagus Cocco., *L. perciformis* Mitch., described and figured. **Holt**, E. W. L. and **Byrne**, L. W. Rep. Fish. Ireland for 1901, Part II, (70, pls. IV and V).

Psenes edwardsii n. sp. New England. **Eigenmann**, C. H. Washington, D.C., Bull. U. S. Fish Com., **21**, 1901, (35–36).

OPHIOCEPHALIDAE.

Ophiocephalus studeri n. sp. Sumatra. **Volz**, W. Zool. Anz., Leipzig, **26**, 1903, (553–559).

ANABANTIDAE.

Anabas pleurostigma n. sp. S. Cameroon. **Boulenger**, G. A. London, Proc. Zool. Soc., **1903**, 1, (27–28, pl. V, fig. 1).

ANACANTHINI.

GADIDAE.

General.

Brown, A. W. Some observations on the young scales of the cod, haddock, and whiting before shedding. Edinburgh, Proc. R. Soc., **24**, 1903, (437–438).

Regan, C. T. On the systematic position and classification of the Gadoid or Anacanthine Fishes. Ann. Mag. Nat. Hist., London, (Ser. 7), **11,** 1903, (459–466, with figs.).

Tims, H. W. On the structure of the scales in the cod. London, Rep. Brit. Ass., **1902,** (660–661).

SPECIAL.

Gadomus n. gen. for *Bathygadus longifilis.* **Regan,** C. T. Ann. Mag. Nat. Hist., London, (Ser. 7), **11,** 1903, (459).

Gadus. **Smith,** H. M. Washington, D.C., Rep. U. S. Com. Fish. **1901,** 1902, (193–208).

Lacmonemodes n. gen., *L. compressicauda* n. sp. S. Africa. **Gilchrist,** J. D. F. Cape Town, Marin. Invest., **2,** 1903, (208, pl. XVI).

Melanobranchus n. gen. for *Bathygadus melanobranchus* Vaill. **Regan,** C. T. Ann. Mag. Nat. Hist., London, (Ser. 7), **11,** 1903, (459).

Motella fusca, a new British record. **Garstang,** W. and **Brown,** F. B. Plymouth, J. Mar. Biol. Ass., (Ser. 2), **6,** 1903, (626–627).

Onus granti n. sp. Azores. **Regan,** C. T. Ann. Mag. Nat. Hist., London, (Ser. 7), **12,** 1903, (346).

Tripterophycis gilchristi n. sp. S. Africa. **Boulenger,** G. A. Cape Town, Marin. Invest., **2,** 1903, (168, pl. XII).

ACANTHOPTERYGII.

Boulenger, G. A. Descriptions of six new Perciform fishes from the Coast of Natal. Cape Town, Ann. S. Afric. Mus., **3,** 1903, (63–67, pls. II–VII).

BERYCIDAE.

Flammeo scythrops n. sp. Hawaii. **Jordan,** D. S. and **Evermann,** B. W. Washington, D.C., Bull. U. S. Fish Com., **22,** (1902), 1903, (161–208).

Holocentrus nn. spp. Hawaii. **Jordan,** D. S. and **Evermann,** B. W. *l.c.* (161–208).

Myripristis nn. spp. Hawaii. **Jordan,** D. S. and **Evermann,** B. W. *l.c.* (161–208).

——— *scalei* n. sp. Hawaii. **Jenkins,** O. P. *l.c.* **1902,** 1903, (417–511).

Plectromus macrophthalmus n. sp. S. Africa. **Gilchrist,** J. D. F. Cape Town, Marin. Invest., **2,** 1903, (205, pl. XIII, fig. 2).

Pycnosterinx levispinosus n. sp. Syria, Upper Cretaceous. **Hay,** O. P. New York, N.Y., Bull. Amer. Mus. Nat. Hist., **19,** 1903, (441, pl. XXXVI, fig. 4).

Trachichthodes n. gen., *T. spinosus* n. sp. S. Africa. **Gilchrist,** J. D. F. Cape Town, Marin. Invest., **2,** 1903, (204, pl. XIII, fig. 1).

CENTRARCHIDAE.

GENERAL.

Smith, H. M. The common names of the basses and sunfishes. [Extracted from Washington, D.C., Rep. U. S. Com. Fish., **1902,** [1903], (352–366).

SPECIAL.

Lepomis occidentalis n. sp. Mexico. **Meek,** S. E. Chicago, Ill., Pub. Field Columb. Mus., Zool. **3,** 1902, (63–128).

CYPHOSIDAE.

Scetator azureus n. sp. Hawaii. **Jordan,** D. S. and **Evermann,** B. W. Washington, D.C., Bull. U. S. Fish Com., **22,** (1902), 1903, (161–208).

PERCIDAE.

Etheostoma, variation. **Moenkhaus,** W. J. Indianapolis, Ind., Proc. Acad. Sci., **1901,** 1902, (115–116).

Hadropterus evermanni n. sp. Indiana. **Moenkhaus,** W. J. Washington, D.C., Bull. U. S. Fish Com., **22,** (1902), 1903, (395–398, with text fig.).

Perca arborella. **Castiglioni,** A. Milano (tip. Milanese), 1902, (13).

SERRANIDAE.

Ambassis boulengeri n. sp. Sumatra. **Volz,** W. Zool. Anz., Leipzig, **26,** 1903, (553).

Anthias cooperi n. sp. **Regan,** C. T. In J. S. Gardiner, Fauna Mald. and Laccad. Archip., **1,** (273).

——— *kelloggi* n. sp. Hawaii. **Jordan,** D. S. and **Evermann,** B. W. Washington, D.C., Bull. U. S. Fish Com., **22,** (1902), 1903, (161–208).

Apogon atradorsatus n. sp. **Heller,** E. and **Snodgrass,** R. E. Washington, D.C., Proc. Acad. Sci., **5,** 1903, (192, pl. III).

——— *menesemus* n. sp. Hawaii. **Jenkins,** O. P. Washington, D.C., Bull. U. S. Fish Com., **1902,** 1903, (417–511).

——— *queketti* n. sp. S. Africa. **Gilchrist,** J. D. F. Cape Town, Marin. Invest., **2,** 1903, (206, pl. XIV).

——— *snyderi* n. sp. Hawaii. **Jordan,** D. S. and **Evermann,** B. W. Washington, D.C., Bull. U. S. Fish Com., **22,** (1902), 1903, (161–208).

Apogonichthys waikiki n. sp. Hawaii. **Jordan,** D. S. and **Evermann,** B. W. *l.c.* (161–208).

Bowersia n. gen. et nn. spp. Hawaii. **Jordan,** D. S. and **Evermann,** B. W. *l.c.* (161–208).

Centropomus atridorsalis n. sp. South America. **Regan,** C. T. Ann. Mag. Nat. Hist., London, (Ser. 7), **12,** 1903, (627).

Chlodipterus affinis, incubation buccobranchiale. **Vaillant,** L. Bul. Muséum, Paris, **1903,** (207).

Cirrhitoidea n. gen., *C. bimacula* n. sp. Hawaii. **Jenkins,** O. P. Washington, D.C., Bull. U. S. Fish Com., **1902,** 1903, (417–511).

Dinoperca queketti n. sp. Natal. **Boulenger,** G. A. Cape Town, Ann. S. Afric. Mus., **3,** 1903, (63, pl. II).

Epinephelus nn. spp. Natal. **Boulenger,** G. A. Cape Town, Ann. S. Afric. Mus., **3,** 1903, (64, pl. III).

Etelis crurus n. sp. Hawaii. **Jordan,** D. S. and **Evermann,** B. W. Washington, D.C., Bull. U. S. Fish Com., **22,** (1902), 1903, (161–208).

Eteliscus marshi n. sp. Hawaii. **Jenkins,** O. P. *l.c.* **1902,** 1903, (417–511).

Fowleria n. gen., (type, *F. aurita*). Hawaii. **Jordan,** D. S. and **Evermann,** B. W. *l.c.* **22,** (1902), 1903, (161–208).

——— *brachygrammus* n. sp. Hawaii. **Jenkins,** O. P. *l.c.* **1902,** 1903, (417–511).

Galeagra n. gen. *G. pammela* n. sp. **Heller,** E. and **Snodgrass,** R. E. Washington, D.C., Proc. Acad. Sci., **5,** 1903, (189–229, 19 pl.).

Pentaceropsis Stdr. and Döderl. 1883 supersedes *Prosoplismus* Waite 1903. **Waite,** E. R. Ann. Mag. Nat. Hist., London, (Ser. 7), **12,** 1903, (288).

Pikea aurora n. sp. Hawaii. **Jordan,** D. S. and **Evermann,** B. W. Washington, D.C., Bull. U. S. Fish Com., **22,** (1902), 1903, (161–208).

Priacanthus alalaua n. sp. Hawaii. **Jordan,** D. S. and **Evermann,** B. W. *l.c.* (161–208).

——— *mecki* n. sp. Hawaii. **Jenkins,** O. P. *l.c.* **1902,** 1903, (417–511).

Prosoplismus n. gen. Australia. **Waite,** E. R. Sydney, N.S.W., Rec. Austr. Mus., **5,** 1903, (59, pl. VI.).

Serranus auriga, S. flaviventris (C and V). **Regan,** C. T. London. Proc. Zool. Soc., **1903,** 2, (61).

CEPOLIDAE.

Jordan, D. S. A review of the *Cepolidae* or band-fishes of Japan. Washington, D.C., Smithsonian Inst., Nation. Mus. Proc., **26,** 1903, (669–702).

SCIAENIDAE.

Corvina crawfordi n. sp. South America. **Regan,** C. T. Ann. Mag. Nat. Hist., London, (Ser. 7), **12,** 1903, (627–628).

Corvula eurymesops n. sp. **Heller,** E. and **Snodgrass,** R. E. Washington, D.C., Proc. Acad. Sci., **5,** 1903, (189–229, 19 pls.).

Cynoscion regalis, changes during life. **Eigenmann,** C. H. Washington, D.C., Bull. U. S. Fish Com., **21,** 1901, (45–51, with text fig.).

——— ——— **Tower,** R. W. *l.c.* (1902), (131–135, with pl.).

Seiaena perissa n. sp. **Heller,** E. and **Snodgrass,** R. E. Washington, D.C., Proc. Acad. Sci., **5,** 1903, (189–229, 19 pl.).

——— *peruana* n. sp. **Steindachner,** F. Zool. Jahrb., Jena, Suppl. 6, 1903, (201–214).

GERRIDAE.

GENERAL.

Regan, C. T. [On the genera of *Gerridae*]. London, Proc. Zool. Soc., **1903,** 2, (63).

SPECIAL.

Eucinostomus mecki n sp. Cuba. **Eigenmann,** C. H. Washington, D.C., Bull. U. S. Fish Com., **22,** (1902), 1903, (211–236).

Gerres maldivensis n. sp. **Regan,** C. T. In J. S. Gardiner, Fauna Mald. and Laccad. Archip., **1,** (279).

PRISTIPOMATIDAE.

Conodon plumieri redescribed. **Fowler,** H. W. Philadelphia, Pa., Proc. Acad. Nat. Sci., **55,** 1903, (348).

Diagramma cavifrons C and V. **Regan,** C. T. London, Proc. Zool. Soc., **1903,** 2, (62).

Mylacrodon n. gen., *M. goeldii* n. sp. Rio Janeiro. **Regan,** C. T. *l.c.* (62–63, pl. VII).

SPARIDAE.

Dentex lineopunctatus n. sp. Natal. **Boulenger,** G. A. Cape Town., Ann. S. Afric. Mus., **3,** 1903, (66, pl. VI).

Pagrus nigripennis n. sp. Natal. **Boulenger,** G. A. *l.c.* (67, pl. VII).

MULLIDAE.

Mulloides flammeus n. sp. Hawaii. **Jordan,** D. S. and **Evermann,** B. W. Washington, D.C., Bull. U. S. Fish Com., **22,** (1902), 1903, (161–208).

Pseudupeneus chrysonemus n. sp. Hawaii. **Jordan,** D. S. and **Evermann,** B. W. *l.c.* (161–208).

——— *porphyreus* n. sp. Hawaii. **Jenkins,** O. P. *l.c.* **1902,** 1903, (417–511).

SCORPIDIDAE.

Aipichtys formosus† n. sp. Syria, Upper Cretaceous. **Hay,** O. P. New York, N.Y., Bull. Amer. Mus. Nat. Hist., **19,** 1903, (445, pl. XXXII, figs. 2, 3).

CHAETODONTIDAE.

Chaetodon howensis n. sp. Lord Howe Id. **Waite,** E. Sydney, N.S.W., Rec. Austr. Mus., **5,** 1903, (33).

Heniochus diphreutes n. sp. Japan. **Jordan,** D. S. Washington, D.C., Smithsonian Inst., Nation. Mus. Proc., **26,** 1903, (693–696, 1 pl.).

Platax vespertilio redescribed. **Fowler,** H. W. Philadelphia, Pa., Proc. Acad. Nat. Sci., **55,** 1903, (161).

TEUTHIDIDAE.

Acanthurus incipiens n. sp. Hawaii. **Jenkins,** O. P. Washington, D.C., Bull. U. S. Fish Com., **1902,** 1903, (417–511).

Callicanthus metoposophron n. sp. Hawaii. **Jenkins,** O. P. *l.c.* (417–511).

Teuthis nn. spp. Hawaii. **Jenkins,** O. P. *l.c.* (417–511).

——— *atrimentatus* n. sp. Hawaii. **Jordan,** D. S. and **Evermann,** B. W. *l.c.* **22,** (1902), 1903, (161–208).

OSPHROMENIDAE.

Osphromenus trichopterus, Beobachtungen über das Leben im Aquarium. **Melnikoff,** W. S. Natur u. Haus, Dresden, **11,** 1903, (169–172, 184–186).

Trichogaster fasciatus, Beobachtungen über das Leben im Aquarium. **Melnikoff,** W. S. *l.c.* (169–172, 184–186).

CICHLIDAE.

General.

Eigenmann, C. H. and **Kennedy**, C. H. On a collection of fishes from Paraguay, with a synopsis of the American genera of Cichlids [and bibliography]. (Contribution from the Zoological department of Indiana University, No. **56**.) Philadelphia, Pa., Proc. Acad. Nat. Sci., **55**, 1903, (497–537).

Special.

Acara sapayensis n. sp. South America. **Regan**, C. T. Ann. Mag. Nat. Hist., London, (Ser. 7), **12**, 1903, (628).

Acquidens paraguayensis n. sp. Paraguay. **Eigenmann**, C. H. and **Kennedy**, C. H. Philadelphia, Pa., Proc. Acad. Nat. Sci., **55**, 1903, (534).

Biotodoma n. nom. = *Mesops*, *B. trifasciatus* n. sp. Paraguay. **Eigenmann**, C. H. and **Kennedy**, C. H. *l.c.*, (536).

Biotoecus n nom. = *Saraca*. Paraguay. **Eigenmann**, C. H. and **Kennedy**, C. H. *l.c.*, (533).

Chromis nn. spp. Gold Coast. **Günther**, A. London, Proc. Zool. Soc., **1902**, 2, (332–333, pl. XXX–XXXI).

——— *elaphrus* n. sp. Hawaii. **Jenkins**, O. P. Washington, D.C., Bull. U. S. Fish Com., **1902**, 1903, (417–511).

——— *multicolor*, ein neuer Chanchito. **Engmann**, P. Natur u. Haus, Dresden, **11**, 1903, (321–323).

——— ——— Laichgeschäft. **Fliessbach**, O. *l.c.* (323–324).

Cichlasoma eigenmanni n. sp. Mexico. **Meek**, S. E. Chicago, Ill., Pub. Field Columb. Mus. Zool. Ser., **3**, 1902, (63–128, with pl.).

——— *teapae* n. sp. Mexico. **Evermann**, B. W. and **Goldsborough**, E. L. Washington, D.C., Bull. U. S. Fish Com., **21**, (1901), 1902, (137–159, with text fig.).

Crenicichla nn. spp. **Pellegrin**, J. Bul. Muséum, Paris, **1903**, (120–125).

Geophagus camopiensis n. sp. **Pellegrin**, J. *l.c.* (120–125).

Heros n. sp. et nn. subspp. Cuba. **Eigenmann**, C. H. Washington, D.C., Bull. U. S. Fish Com., **22**, (1902), 1903, (211–236, with text, fig., pl.).

Heros (*Cichlasoma*) *labridens* n. sp. **Pellegrin**, J. Bul. Muséum, Paris, **1903**, (120–125).

——— *octofasciatus* n. sp. Mexico. **Regan**, C. T. Rev. Suisse Zool., Genève, **11**, 1903, (417, pl. XIII, fig. 1).

——— *teporatus* n. sp. Mexico. **Fowler**, H. W. Philadelphia, Pa., Proc. Acad. Nat. Sci., **55**, 1903, (321).

Lamprologus meequardi n. sp. Oubanghi, W. Africa **Pellegrin**, J. Bul. Muséum, Paris, **1903**, (220–221).

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——— *microcephala* Blkr. note. **Lönnberg**, E. *l.c.* (41).

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Glyphisodon sindonis n. sp. Hawaii. **Jordan,** D. S. and **Evermann,** B. W. Washington, D.C., Bull. U. S. Fish Com., **22,** (1902), 1903, (161–208).

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Calotomus nn. spp. Hawaii. **Jenkins,** O. P. Washington, D.C., Bull. U. S. Fish Com., **1902,** 1903, (417–511).

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Carangus nn. spp. Hawaii. **Jenkins,** O. P. Washington, D.C., Bull. U. S. Fish Com., **1902,** 1903, (417–511).

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Thunnus thynnus, on the New Jersey coast. **Fowler,** H. W. Science, New York, N.Y., (N. Ser.), **17,** 1903, (594–595).

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Machaerops latispinnis Ogilby, note. **Waite**, E. R. Sydney, N.S.W., Rec. Austr. Mus., **5**, 1903, (24, pl. IV, fig. 2).

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Zeus faber, arrangement of bony plates. **Byrne**, L. W. Biometrika, Cambridge, **2**, 1903, (115).

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Parker, G. H. The optic chiasma in teleosts and its bearing on the asymmetry of Heterosomata (flat fishes). Cambridge, Mass., Cont. Mus. Comp. Zool. Harvard Coll., No. **138**; Cambridge, Mass, Bull. Mus. Comp. Zool. Harvard Coll., **40**, 1903, (221-242, 1 pl.).

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Gnatholepis knighti n. sp. Hawaii. **Jordan**, D. S. and **Evermann**, B. W. *l.c* **22**, (1902), 1903, (161-208).

Gobionellus lonchotus n. sp. Hawaii. **Jenkins**, O. P. *l.c.* **1902**, 1903, (417-511).

Gobiopterus farcimen n. sp. Hawaii. **Jordan**, D. S. and **Evermann**, B.W. *l.c.* **22**, (1902), 1903, (161-208).

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Rhiaciehthys novae-guineae n. sp. British New Guinea. **Boulenger**, G. A. London, Proc. Zool. Soc., **1903**, 2, (124–125, pl. XI).

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Cocotropus altipinnis n. sp. **Waite**, E. R. Sydney, N.S.W., Rec. Austr. Mus., **5**, 1903, (41, pl. V, fig. 2).

Dendrochirus chloreus n. sp. Hawaii. **Jenkins**, O. P. Washington, D.C., Bull. U. S. Fish Com., **1902**, 1903, (417–511).

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Dendrochirus hudsoni n. sp. Hawaii. **Jordan**, D. S. and **Evermann**, B. W. *l.c.* **22**, (1902), 1903, (161–208).

Iracundus n. gen., *I. signifer*, n. sp. Hawaii. **Jordan**, D. S. and **Evermann**, B. W. *l.c.* (209–210).

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Scorpaenopsis catocala n. sp. Hawaii. **Jordan**, D. S. and **Evermann**, B. W. *l.c.* (161–208).

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Sebastopsis kelloggi n. sp. Hawaii. **Jenkins**, O. P. *l.c.* (417–511).

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Comephorus dybowskii n. sp.? **Korotnev**, A. Moskva, 1902, (27, mit 9 fig. u. 1 Karte). 26 cm.

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General.

Berg, L. S. On the systematic of the *Cottidae* from Lake Baical. (Russ.) St. Peterburg, Ann. Mus. Zool. Ac. Sc., **8**, 1903, (99–114).

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Batrachocottus n. gen., (typ. *B. baicalensis* Dyb.). **Berg**, L. St. Peterburg, Ann. Mus. Zool. Ac. Sc., **8**, 1903, (109).

-- *Cottus kusnetzovi* n. sp. Lake Baical. **Berg,** L. *l.c.* (110).

Cottunculus brephocephalus n. sp. Japan. **Jordan,** D. S. and **Starks,** E. C. Washington, D.C., Smithsonian Inst., Nation. Mus. Proc., **26,** 1903, (688-690).

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Merulinus salmonicolor n. sp. Florida. **Fowler,** H. W. Philadelphia, Pa., Proc. Acad. Nat. Sci., **55,** 1903, (328-336).

Peristedion altipinnis n. sp. Rio Janeiro. **Regan,** C. T. London, Proc. Zool. Soc., **1903,** 2, (65-66, pl. VIII).

Upeneus argc n. sp. Hawaii. **Jordan,** D. S. and **Evermann,** B. W. Washington, D.C., Bull. U. S. Fish. Com., **22,** (1902), 1903, (161-208).

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Cephalacanthus volitans on the New Jersey coast. **Fowler,** H. W. Science, New York, N.Y., (N. Ser.), **17,** 1903, (594-595).

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Bleekeria mitsukurii, supplementary note. **Jordan,** D. S. Washington, D.C., Smithsonian Inst., Nation. Mus. Proc., **26,** 1903, (693-696).

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Jordan, D. S. and **Fowler,** H. W. A review of the Dragonets (*Callionymidae*) and related fishes of the waters of Japan. Washington, D.C., Smithsonian Inst., Nation. Mus., Proc., **25,** 1903, (939-959).

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Draconetta xenica n. sp. Japan. **Jordan,** D. S. and **Fowler,** H. W. Washington, D.C., Smithsonian Inst., Nation. Mus., Proc., **25,** 1903, (939-959).

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Callionymus nn. spp. Japan. **Jordan,** D. S. and **Fowler,** H. W. Washington, D.C., Smithsonian Inst., Nation. Mus. Proc., **25,** 1903, (939-959).

Calliurichthys n. gen., *C. doryssus* n. sp. Japan. **Jordan,** D. S. and **Fowler,** H. W. *l.c.* (939-959).

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Arbaciosa truncata n. sp. **Heller,** E. and **Snodgrass,** R. E. Washington, D.C., Proc. Acad. Sci., **5,** (216, pl. XIV).

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Aspidontus brunneolus n. sp. Hawaii. **Jenkins,** O. P. Washington, D.C., Bull. U. S. Fish Com., **1902,** 1903, (417-511).

——— *tractus* n. sp. Zanzibar. **Fowler,** H. W. Philadelphia, Pa., Proc. Acad. Nat Sci., **55,** 1903, (170).

Chasmodes maculipinna n. sp. South America. **Regan**, C. T. Ann. Mag. Nat. Hist., London, (Ser. 7), **12**, 1903, (630).

Cristiceps argentatus, künstliche Befruchtung der Eier von. **Kopsch**, F. Berlin, SitzBer, Ges. natf. Freunde, **1902**, (33–36).

Eulophias n. gen., *E. tanneri* n. sp. Japan. **Smith**, H. M. Washington, D.C., Bull. U. S. Fish Com., **21**, (1901), 1902, (93–94, with text fig.).

Graviceps n. gen., type *Petroscirtes elegans* Steindachner. **Fowler**, W. H. Philadelphia, Pa., Proc. Acad. Nat. Sci., **55**, 1903, (170).

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Malacoctenus zonogaster n. sp. **Heller**, E. and **Snodgrass**, R. E. *l.c.* (189–222, 19 pl.).

Salarias, nn. spp. Hawaii. **Jenkins**, O. P. Washington, D.C., Bull. U. S., Fish Com., **1902**, 1903, (417–411).

Tripterigion atriceps n. sp. Hawaii. **Jenkins**, O. P. *l.c.* (417–511).

Trypauchenopsis n. gen., *T. intermedius* n. sp. Sumatra. **Volz**, W. Zool. Anz., Leipzig, **26**, 1903 (553–559); Zool. Jahrb., Jena, Abt. f. Syst., **19**, 1903, (347–420).

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Batrachoides goldmani n. sp. Mexico. **Evermann**, B. W. and **Goldsborough**, E. L. Washington, D.C., Bull. U.S. Fish Com., **21**, (1901), 1902, (137–159).

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Lucifuga and *Stygicola*, reproductive organs. **Lane**, H. Wood's Holl, Mass., Mar. Biol. Lab. Bull., **6**, 1903, (38–54, with pl.).

Petrotyx n. gen., *P. hopkinsi* n. sp. **Heller**, E. and **Snodgrass**, R. E. Washington, D.C., Proc. Acad. Sci., **5**, 1903, (189–229, 19 pl.).

Selachophidium n. gen., *S. guentheri* n. sp. S. Africa. **Gilchrist**, J. D. F. Cape Town, Marin. Invest., **2**, 1903, (209, pl. XVII).

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Genypterus brasiliensis n. sp. Rio Janeiro. **Regan**, C. T. London, Proc. Zool., Soc., **1903**, 2, (68, pl. 8.).

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——— *sclateri* n. sp. S. Cameroons. **Boulenger**, G. A. *l.c.* 1, (28, pl. V, fig. 2).

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Special.

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Antennarius argus n. sp. Zanzibar. **Fowler**, H. W. Philadelphia, Pa., Proc. Acad. Nat. Sci., **55**, 1903, (172).

——— *drombus* n. sp. Hawaii. **Jordan**, D. S. and **Evermann**, B. W. Washington, D.C., Bull. U. S. Fish Com., **22**, (1902), 1903, (161–208).

——— *tagus* n. sp. **Heller**, E. and **Snodgrass**, R. E. Washington, D.C., Proc. Acad. Sci., **5**, 1903, (226, pl. XX).

Chirolophius n. gen., *C. nareseii* Günther, *C. moseleyi*, *C. murrayi* nn. spp. **Regan,** C. T. Ann. Mag. Nat. Hist., London, (Ser. 7), **11,** 1903, (279–281).

Lophius piscatorius, distribution, growth and food. **Fulton,** T. W. Glasgow, Rep. Fish. Board, **21,** 3, 1903, (186–217).

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——— *vaillanti* n. sp. **Regan,** C. T. Ann. Mag. Nat. Hist., London, (Ser. 7), **11,** 1903, (285).

Melanocetus rotundatus n. sp. S. Africa. **Gilchrist,** J. D. F. Cape Town, Marin. Invest., **2,** 1903, (206, pl. XV).

Pterophryne histrio, habits. **Geare,** R. J. Sci. Amer. New York, N.Y., **89,** 1903, (218).

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General.

Regan, C. T. Classification of the fishes of the sub-order Plectognathi; with notes and descriptions of new species from specimens in the British Museum Collection. London, Proc. Zool. Soc., **1902,** 2, (284–303, with figs., pls. XXIV, XXV).

Special.

Diodon nudifrons n. sp. Hawaii. **Jenkins,** O. P. Washington, D.C., Bull. U. S. Fish Com., **1902,** 1903, (417–511).

Lactoria galeodon n. sp. Hawaii. **Jenkins,** O. P. *l.c.* (417–511).

Lagocephalus oceanicus n. sp. Hawaii. **Jordan,** D. S. and **Evermann,** B. W. *l.c.* **22,** (1902), 1903, (161–208).

Mola Linck (= *Mola* Cuvier). **Gill,** T. [N.]. Washington, D.C., Smithsonian Inst., Nation. Mus. Proc., **26,** 1903, (959–962).

Ostracion oahuensis n. sp. Hawaii. **Jordan,** D. S. and **Evermann,** B. W. Washington, D.C., Bull. U. S. Fish Com., **22,** (1902), 1903, (161–208).

Puchymathus nyeteris n. sp. Hawaii. **Jordan,** D. S. and **Evermann,** B. W. *l.c.* (161–208).

Pseudomonacanthus nn. spp. **Regan,** C. T. London, Proc. Zool. Soc., **1903,** 2, (298–299).

Tetrodon old and new species. **Regan,** C. T. *l.c.* (299–305).

Tricanthus, revision of the species [*T. indicus* n. sp.] **Regan,** C. T. *l.c.* **1903,** 1, (180–185).

Tropidichthys nn. spp. Hawaii. **Jenkins,** O. P. Washington, D.C., Bull. U. S. Fish Com., **1902,** 1903, (417–511).

——— *psegma* n. sp. **Jordan,** D. S. and **Evermann,** B. W. *l.c.* **22,** (1902), 1903, (209–210).

INCERTAE SEDIS.

Palaeospondylus gunni †. Traquair. **Sollas,** W. J. and **Sollas,** I. B. J. London, Phil. Trans. R. Soc., **196,** 1903, (267–294, pl. XVI–XVII).

LIST OF NEW GENERA AND SPECIES.

Abbottina n. gen. [Cyprinidae]. Jordan and Fowler. 214.
——— *psegma*. Jordan and Fowler. 214.
Acanthophthalmus [Cyprinidae].
——— *shelfordii*. Pepta. 307.
Acanthurus [Teuthididae].
——— *incipiens*. Jenkins. 201.
Acara [Cichlidae].
——— *sapayensis*. Regan. 324.
Acestrorhamphus n. gen. [Characinidae]. Eigenmann and Kennedy. 98.
Acestrorhynchus n. nom. [Characinidae]. Eigenmann and Kennedy. 98.
Acheilognathus [Cyprinidae].
——— *cyanostigma*. Jordan and Fowler. 214.
Acnodon n. gen. [Characinidae]. Eigenmann. 93.
Acrognathus [Siluridae].
——— *dodgei* †. Hay. 163.
Acrolepis [Ganoidei].
——— *molyneuxi* †. Woodward. 420.

Acquidens [Cichlidae].
——— *paraguayensis*. Eigenmann and Kennedy. 98.

Agosia [Cyprinidae].
——— *robusta*. Rutter. 340.

Aiptichthys [Scorpididae].
——— *formosus* †. Hay. 163.

Alestes [Characinidae].
——— *batesii*. Boulenger. 41.
——— *brevis*. Boulenger. 43.
——— *intermedius*. Boulenger. 33.
——— *opisthotaenia*. Boulenger. 33.

Algansea [Cyprinidae].
——— *rubescens*. Meek. 257.

Allabenchelys [Siluridae].
——— *brevior*. Boulenger. 41.

Allector n. gen. [Pediculati]. Heller and Snodgrass. 168.
——— *chelonias*. Heller and Snodgrass. 168.

Alosa [Clupeidae].
——— *ohiocnsis*. Evermann, B. W. 104.

Amblyopus [Gobiidae].
——— *sumatranus*. Volz. 400.

Anabas [Anabantidae].
——— *pleurostigma*. Boulenger. 33.

Anguillavus † n. gen. [Apodes]. Hay. 163.
——— *bathshebae* †. Hay. 163.
——— *quadripinnis* †. Hay. 163.

Anisitsia n. gen. [Characinidae]. Eigenmann and Kennedy. 93.

Antennarius [Pediculati].
——— *argus*. Fowler. 119.
——— *drombus*. Jordan and Evermann. 208.
——— *tagus*. Heller and Snodgrass. 168.

Anthias [Serranidae].
——— *cooperi*. Regan. 325.
——— *kelloggi*. Jordan and Evermann. 208.

Arhoristia [Pleuronectidae].
——— *variegata*. Gilchrist. 144.

Apogon [Serranidae].
——— *atradorsatus*. Heller and Snodgrass. 168.
——— *menesemus*. Jenkins. 201.
——— *quecketti*. Gilchrist. 144.
——— *snyderi*. Jordan and Evermann. 208.

Apogonichthys [Serranidae].
——— *waikiki*. Jordan and Evermann. 208.

Aphyocharax [Characinidae].
——— *anisitsi*. Eigenmann and Kennedy. 98.
——— *dentatus*. Eigenmann and Kennedy. 98.

Arbaciosa [Gobiesocidae].
——— *truncata*. Heller and Snodgrass. 168.

Arges [Loricariidae].
——— *orientalis*. Boulenger. 37.

Aspidontus [Blenniidae].
——— *brunneolus*. Jenkins. 201.
——— *tractus*. Fowler. 119.

Atherina [Atherinidae].
——— *evermanni*. Eigenmann. 97.
——— *insularum*. Jordan and Evermann. 208.

Aztecula [Cyprinidae].
——— *mexicana*. Meek. 257.

Azurina [Pomacentridae].
——— *eupalama*. Heller and Snodgrass. 168.

Bagarius [Siluridae].
——— *lica*. Volz. 400.

Baicalocottus n. gen. [Comephoridae]. Berg. 20.

Barbus [Cyprinidae].
——— *amphigramma*. Boulenger. 36.
——— *anema*. Boulenger. 42.
——— *batesii*. Boulenger. 33.
——— *erlangeri*. Boulenger. 35.
——— *jae*. Boulenger. 41.
——— *lineomaculatus*. Boulenger. 36.
——— *lumiensis*. Boulenger. 36.
——— *miolepis*. Boulenger. 42.
——— *neglectus*. Boulenger. 42.
——— *nigeriensis*. Boulenger. 32.
——— *percivali*. Boulenger. 36.
——— *progenys*. Boulenger. 33.
——— *radcliffi*. Boulenger. 38.
——— *stigmatopygus*. Boulenger. 42.
——— *taeniurus*. Boulenger. 33.

Batrachocottus n. gen. [Cottidae]. Berg. 20.

Batrachoides [Batrachidae].
——— *goldmani*. Evermann and Goldsborough. 106.

Belone [Scombresocidae].
——— *fluviatilis*. Regan. 324.

Biotodoma n. nom. [Cichlidae]. Eigenmann and Kennedy. 98.
——— *trifasciatus*. Paraguay. Eigenmann and Kennedy. 98.

Biotoecus n. nom. [Cichlidae]. Eigenmann and Kennedy. 98.

Biwia n. gen. [Cyprinidae]. Jordan and Fowler. 214.

Boulengerella n. gen. [Characinidae]. Eigenmann. 93.

Bowersia n. gen. [Serranidae]. Jordan and Evermann. 208.
——— *ulaula*. Jordan and Evermann. 208.
——— *violescens*. Jordan and Evermann. 208.

Bryconodon n. gen. [Characinidae]. Eigenmann. 93.

Bunocephalus [Aspredinidae].
——— *rugosus*. Eigenmann and Kennedy. 98.

Callicanthus [Teuthididae].
——— *metoposophron*. Jenkins. 201.

Callionymus [Callionymidae].
——— *calliste*. Jordan and Fowler. 211.
——— *flagris*. Jordan and Fowler. 211.
——— *virgis*. Jordan and Fowler. 211.

Calliurichthys n. gen. [Callionymidae]. Jordan and Fowler. 211.
——— *doryssus*. Jordan and Fowler. 211.

Calotomus [Scaridae].
——— *cyclurus*. Jenkins. 201.
——— *snyderi*. Jenkins. 201.

Campogramma n. gen. [Carangidae]. Regan. 323.

Carangus [Carangidae].
——— *clacate*. Jordan and Evermann. 208.
——— *politus*. Jenkins. 201.

Carcharias [Plagiostomi].
——— *phorcys*. Jordan and Evermann. 208.

Catostomus [Cyprinidae].
——— *conchos*. Meek. 257.
——— *sonorensis*. Meek. 257.

Cottus [Cottidae].
——— *kusnetzovi*. Berg. 20.

Centropomus [Serranidae].
——— *atridorsalis*. Regan. 324.

Centro[s]cyllium [Plagiostomi].
——— *ritteri*. Jordan and Fowler. 212.

Cephaloscyllium [Plagiostomi].
——— *umbratile*. Jordan and Fowler. 212.

Chaetodon [Chaetodontidae].
——— *howensis*. Waite. 404.

Chaetostomus [Loricariidae].
——— *anomalus*. Regan. 320.

Chanos [Clupeidae].
——— *gardineri*. Regan. 325.

Chapalichthys n. gen. [Cyprinodontidae]. Meek. 257.

Characinus [Characinidae].
——— *squamosus*. Eigenmann and Kennedy. 98.

Chasmistes [Cyprinidae].
——— *chambelaini* Rutter. 340.

Chasmodes [Blenniidae].
——— *maculipenna*. Regan. 324.

Cheirodon [Characinidae].
——— *annae*. Eigenmann and Kennedy. 98.

Chiloglanis [Siluridae].
——— *modjensis*. Boulenger. 35.

Chirolophius n. gen. [Pediculati]. Regan. 317.
——— *moseleyi*. Regan. 317.
——— *murrayi*. Regan. 317.

Chirostoma [Atherinidae].
——— *attenuatum*. Meek. 257.
——— *labareae*. Meek. 257.
——— *patzcuaro*. Meek. 257.
——— *zirahuen*. Meek. 257.

Chlamydes n. gen. [Gobiidae]. Jenkins. 201.
——— *laticeps*. Jenkins. 201.

Chromis [Cichlidae].
——— *buxumanus*. Günther. 160.
——— *discolor*. Günther. 160.
——— *elaphrus*. Jenkins. 201.
——— *multicolor*. Eigenmann. 101.
——— *multifasciatus*. Günther. 160.

Cichlasoma [Cichlidae].
——— *eigenmanni*. Meek. 257.
——— *teapae*. Evermann and Goldsborough. 106.

Cirrhitoidea n. gen. [Serranidae] Jenkins. 201.
——— *bimacula*. Jenkins. 201.

Clarias [Siluridae].
——— *carsonii*. Boulenger. 39.
——— *kingsleyae*. Günther. 160.
——— *pachynema*. Boulenger. 41.

Coccodus [Ganoidei].
——— *insignis*† Hay. 163.

Cocotropus [Scorpaenidae].
——— *altipinnis*. Waite. 404.

Coelacanthus [Crossopterygii].
——— *summiti*†. Wellburn. 410.

Coilia [Clupeidae].
——— *polyfilis*. Volz. 400.

Colossoma n. gen. [Characinidae]. Eigenmann. 93.

Cotylopus [Gobiidae].
——— *cocoensis*. Heller and Snodgrass. 168.

Comephorus [Comephoridae].
——— *dybowskii*. Korotnev. 230.

Congrellus [Apodes].
——— *bowersi*. Jenkins. 201.

Conorhynchos [Siluridae].
——— *nelsoni*. Evermann and Goldsborough. 106.

Coregonus [Salmonidae].
——— *stanleyi*. Kendall. 220.

Corvina [Sciaenidae].
——— *crawfordi*. Regan. 324.

Corvula [Sciaenidae].
——— *eurymesops*. Heller and Snodgrass. 168.

Corydoras [Siluridae].
——— *aurofrenatus*. Eigenmann and Kennedy. 98.
——— *microps*. Eigenmann and Kennedy. 98.

Cottunculus [Cyclopteridae].
——— *brephocephalus*. Jordan and Stark. 217.

Crenicichla [Cichlidae].
——— *geayi*. Pellegrin. 297.
——— *multispinosa*. Pellegrin. 297.
——— *vaillanti*. Pellegrin. 297.

Ctenothrissa [Ctenothrissidae].
——— *signifer*†. Hay. 163.

Curimatella [Characinidae].
——— *alburnus* var. *australe* n. var. Eigenmann and Kennedy. 98.

Curimatus [Characinidae].
——— *elegans* var. *paraguayensis* n. var. Eigenmann and Kennedy. 98.
——— *gilli*. Eigenmann and Kennedy. 98.

Cynias n. nom. [Plagiostomi]. Gill. 149.

Dasyatis [Plagiostomi].
——— *hawaiiensis*. Jenkins. 201.
——— *sciera*. Jenkins. 201.

Dendrochirus [Scorpaenidae].
——— *chlorcus*. Jenkins. 201.
——— *hudsoni*. Jordan and Evermann. 208.

Dentex [Sparidae].
——— *lineopunctatus*. Boulenger. 45.

Dercetis [Heteromi].
——— *latiscutatus*. Woodward. 419.
——— *maximus*. Woodward. 419.

Dinoperca [Serranidae].
——— *gucketti*. Boulenger. 45.

Diodon [Plectognathi].
——— *nudifrons*. Jenkins. 201.

Discognathus [Cyprinidae].
——— *makiensis*. Boulenger. 35.

Doras [Siluridae].
——— *nebulosus*. Eigenmann and Kennedy. 98.

Doryichthys [Catosteomi].
——— *multiannulatus*. Regan. 326.

Draconetta [Draconettidae].
——— *xenica*. Jordan and Fowler. 211.

Echidna [Apodes].
——— *obscura*. Jenkins. 201.
——— *psalion*. Jenkins. 201.
——— *vineta*. Jenkins. 201.
——— *zonophaca*. Jordan and Evermann. 208.

Eleotris [Gobiidae].
——— *tubularis*. Heller and Snodgrass. 168.

Elonichthys [Ganoidei].
——— *obliquus*†. Wellburn. 410.
——— *ornatus*†. Wellburn. 410.

Elxis n. gen. [Cyprinidae]. Jordan and Fowler. 213.
——— *nikkonis*. Jordan and Fowler. 213.

Embolichthys n. gen. [Leptoscopidae]. Jordan and Evermann. 203.

Enchelion† n. gen. [Apodes]. Hay. 163.
——— *montium* †. Hay. 163.
Enchelipus [Heteromi].
——— *jordani*. Heller and Snodgrass. 168.
Enchodus [Enchodontidae].
——— *saevus*†. Hay. 162.
Engyprosopon [Pleuronectidae].
——— *arenicola*. Jordan and Evermann. 208.
——— *hawaiiensis*. Jordan and Evermann. 208.
Enypnias [Gobiidae].
——— *oligolepis*. Jenkins. 201.
Epinephelus [Serranidae].
——— *albomarginatus*. Boulenger. 45.
——— *andersoni*. Boulenger. 45.
——— *grammatophorus*. Boulenger. 45.
Eteles [Serranidae].
——— *evurus*. Jordan and Evermann. 208.
Eteliscus [Serranidae].
——— *marshi*. Jenkins. 201.
Eubiodectes† n. gen. [Saurodontidae]. Hay. 163.
Eucinostomus [Cichlidae].
——— *mexicanus*. Eigenmann. 97.
Eulophias n. gen. [Blenniidae]. Smith. 369.
——— *tanneri*. Smith. 369.
Eutyx n. gen. [Zoarcidae]. Heller and Snodgrass. 168.
——— *diagrammus*. Heller and Snodgrass. 168.
Evarra [Cyprinidae].
——— *thalassensis*. Meek. 257.
Evermannella n. gen. [Characinidae]. Eigenmann. 93.
Eviota [Gobiidae].
——— *epiphanes*. Jenkins. 201.
Evista n. gen. [Gobiidae]. Jenkins. 201.
Evolantia n. gen. [Scombresocidae]. Heller and Snodgrass. 168.
Fierasfer [Heteromi].
——— *umbratilis*. Jordan and Evermann. 208.
Flammeo [Berycidae].
——— *scythrops*. Jordan and Evermann. 208.
Fluvidraco n. gen. [Siluridae]. Jordan and Fowler. 215.
Fowleria n. gen. [Serranidae]. Jordan and Evermann. 208.
——— *brachygrammus*. Jenkins. 201.
Fundulus [Cyprinodontidae].
——— *cubensis*. Eigenmann. 97.
——— *lochmbergi*. Boulenger. 41.
——— *oaxacae*. Meek. 257.
——— (?) *paraguayensis*. Eigenmann and Kennedy. 98.
Gadomus n. gen. [Gadidae]. Regan. 319.
Galeagra n. gen. [Serranidae]. Heller and Snodgrass. 168.
——— *pammelas*. Heller and Snodgrass. 168.
Genyterus [Ophidiidae].
——— *brasiliensis*. Regan. 315.
——— *microstomus*. Regan. 321.
Geophagus [Cichlidae].
——— *camopiensis* n. sp. Pellegrin. 297.
Gerres [Gerridae].
——— *maldivensis*. Regan. 325.
Gila [Cyprinidae].
——— *minacae*. Meek. 257.
Gilbertella n. gen. [Characinidae]. Eigenmann. 93.
Ginglymostoma [Plagiostomi].
——— *blanckenhorni* †. Stromer. 382.
Girardinus [Cyprinodontidae].
——— *garmani*. Eigenmann. 97.
Glaridichthys [Cyprinodontidae].
——— *falcatus*. Eigenmann. 97.
——— *torralbasi*. Eigenmann. 97.
Glyphisodon [Pomacentridae].
——— *sindonis*. Jordan and Evermann. 208.
Gnatholepis [Gobiidae].
——— *knighti*. Jordan and Evermann. 208.
Gobionellus [Gobiidae].
——— *lonchotus*. Jenkins. 201.
Goniopterus [Gobiidae].
——— *farcimen*. Jordan and Evermann. 208.
Gobius [Gobiidae].
——— *claytonii*. Meek. 257.
——— *gilberti*. Heller and Snodgras. 168.
——— *guentheri*. Regan. 824.
——— *parrus*. Meek. 257.
——— *rhizophora*. Heller and Snodgrass. 168.

Graviceps n. gen. [Blenniidae]. Fowler. 119.

Gymnothorax [Apodes].
——— *ercodes*. Jenkins. 201.
——— *goldsboroughi*. Jordan and Evermann. 208.
——— *gracilicauda*. Jenkins. 201.
——— *hilonis*. Jordan and Evermann. 208.
——— *leucacme*. Jenkins. 201.
——— *steindachneri*. Jordan and Evermann. 208.
——— *thalassoplerus*. Jenkins. 201.
——— *vinglentus*. Jordan and Evermann. 208.

Gymnomuraena [Apodes].
——— *brevicauda*. Regan. 326.

Hadropterus [Percidae].
——— *evermanni*. Moenkhaus. 264.

Haplochilus [Cyprinodontidae].
——— *cameronensis*. Boulenger. 41.
——— *peruanus*. Regan. 321.

Hemigrammus [Characinidae].
——— *kennedyi*. Eigenmann. 98.
——— *melanopterus*. Eigenmann and Kennedy. 98.

Hemiodus [Characinidae].
——— *orthonops*. Eigenmann and Kennedy. 98.

Hemipteronotus [Labridae].
——— *baldwini*. Jordan and Evermann. 208.

Heniochus [Chaetodontidae].
——— *diphreutes*. Jordan. 203.

Heros [Cichlidae].
——— *labridens*. Pellegrin. 297.
——— *nigricans*. Eigenmann. 97.
——— *octofasciatus*. Regan. 326.
——— *teporatus*. Fowler. 120.
——— *tetracanthus: cinctus* n. subsp. Eigenmann. 97.
——— *tetracanthus: griseus* n. subsp. Eigenmann. 97.
——— *tetracanthus: latus* n. subsp. Eigenmann. 97.
——— *tetracanthus: torralbasi* n. subsp. Eigenmann. 97.

Heterandria [Cyprinodontidae].
——— *cubensis*. Eigenmann. 97.
——— *lutzi*. Meek. 257.

Hexagrammus [Hexagrammidae].
——— *aburaco*. Jordan and Stark. 218.

Hippocampus [Catosteomi].
——— *fisheri*. Jordan and Evermann. 208.
——— *hilonis*. Jordan and Evermann. 208.

Holocentrus [Berycidae].
——— *ensifer*. Jordan and Evermann. 208.
——— *xantherythrus*. Jordan and Evermann. 208.

Holoprion n. gen. [Characinidae]. Eigenmann. 93.

Holopristis n. gen. [Characinidae]. Eigenmann. 93.

Holoshesthes n. gen. [Characinidae]. Eigenmann. 93.

Hoplias n. nom. [Characinidae]. Gill. 145.

Hyporhamphus [Scombresocidae].
——— *kurumeus*. Jordan and Starks. 216.

Iracundus n. gen. [Scorpaenidae]. Jordan and Evermann. 209.
——— *signifer*. Jordan and Evermann. 209.

Labeo [Cyprinidae].
——— *annectens*. Boulenger. 33.
——— *kirkii*. Boulenger. 40.
——— *falcipennis* n. nom. Boulenger. 40.
——— *neumanni*. Boulenger. 35.
——— *victorianus: fuelleborni* n. subsp. Helgendorf and Pappenheim. 181.
——— *walkeri*. Günther. 160.

Lactoria [Plectognathi].
——— *galeodon*. Jenkins. 201.

Laemonemodes n. gen. [Gadidae]. Gilchrist. 144.
——— *compressicauda*. Gilchrist. 144.

Lagocephalus [Plectognathi].
——— *oceanicus*. Jordan and Evermann. 208.

Lahilliella n. subgen. [Characinidae] Eigenmann. 93.

Lamprologus [Cichlidae].
——— *mocquardi*. Pellegrin. 298

Lepidoplois [Labridae].
——— *strophodes*. Jordan and Evermann. 208.

Letisoma [Blenniidae].
——— *jenkinsi*. Heller and Snodgrass. 168.

Lepomis [Centrarchidae].
——— *occidentalis*. Meek. 257.
Leptobrachelus [Heteromi].
——— *serpentinus*† Hay. 163.
Leptocephalus [Apodes].
——— *amphioxus*. Eigenmann and Kennedy. 99.
——— *caudomaculatus*. Eigenmann and Kennedy. 99.
——— *discus*. Eigenmann and Kennedy. 99.
——— *gilberti*. Eigenmann and Kennedy. 99.
——— *gillii*. Eigenmann and Kennedy. 99.
——— *grassii*. Eigenmann and Kennedy. 99.
——— *latus*. Eigenmann and Kennedy. 99.
——— *mucronatus*. Eigenmann and Kennedy. 99.
——— *rex*. Eigenmann and Kennedy. 99.
——— *strömmani*. Eigenmann and Kennedy. 99.
Leuciscus [Cyprinidae].
——— *carletoni*. Kendall. 220.
——— *phalacrocorax*. Jordan and Fowler. 214.
Listracanthus [Plagiostomi]
——— *wardi* †. Woodward. 418.
Lophius [Pediculati].
——— *vaillanti*. Regan. 317.
Macrias n. gen. [Percophidae]. Gill and Townsend. 154.
——— *amissus*. Gill and Townsend. 154.
Macristium n. gen. [Scopelidae]. Regan. 322.
——— *chavesi*. Regan. 322.
Macrones [Siluridae].
——— *bleekeri*. Volz. 400.
Malacoctenus. [Blenniidae].
——— *zonogaster*. Heller and Snodgrass. 168.
Markiana n. gen. [Characinidae]. Eigenmann. 93.
Mastacembelus [Opisthomi].
——— *selateri*. Boulenger. 33.
——— *victoriae*. Boulenger. 38.
Melaniris n. gen. [Atherinidae]. Meek. 257.
——— *balsanus*. Meek. 257.
Melanobranchus n. gen. [Gadidae]. Regan. 319.
Melanocetus [Pediculati].
——— *rotundatus*. Gilchrist. 144.
Menidia [Atherinidae].
——— *beryllina* : *cerea* n. subsp. Kendall. 222.
——— *peninsulae* : *atrimentis* n. subsp. Kendall. 222.
Merluccius [Triglidae].
——— *salmonicolor*. Fowler. 121.
Metynnis [Characinidae].
——— *mola*. Eigenmann and Kennedy. 98.
Microcoelia [Scopelidae].
——— *dayi*†. Hay 163.
Microponophis [Apodes].
——— *foideri*. Jordan and Evermann. 208.
——— *macgregori*. Jenkins. 201.
Microsynodontis n. gen. [Siluridae]. Boulenger. 33.
——— *batesii*. Boulenger. 33.
Moenkhausia n. gen [Characinidae]. Eigenmann. 93.
Mulloides [Mullidae].
——— *flammeus*. Jordan and Evermann. 208.
Muraena [Apodes].
——— *grandimaculis*. Regan. 326.
——— *kailuae*. Jordan and Evermann. 208.
——— *kauila*. Jenkins. 201.
Mylacrodon n. gen. [Pristipomatidae]. Regan. 315.
——— *goeldii*. Regan. 315.
Myleocollops n. subgen. [Characinidae]. Eigenmann. 93.
Mylossoma n. gen. [Characinidae]. Eigenmann. 93.
Myriipristis [Berycidae].
——— *argyromus*. Jordan and Evermann. 208.
——— *berndti*. Jordan and Evermann. 208.
——— *chryseres*. Jordan and Evermann. 208.
——— *symmetricus*. Jordan and Evermann. 208.
Nannocharax [Characinidae].
——— *intermedius*. Boulenger. 41.
Nemachilus [Cyprinidae].
——— *fedtschenkoae*. Nikolskij. 274.

Nexilosus n. gen. [Pomacentridae]. Heller and Snodgrass. 168.
——— *albemarlensis*. Heller and Snodgrass. 168.

Notacanthus [Heteromi].
——— *annectens*. Boulenger. 44.

Notoglanidium n. gen. [Siluridae]. Günther. 160.
——— *walkeri*. Günther. 610.

Notropis [Cyprinidae].
——— *brimleyi*. Bean. 12.
——— *lermae* n. sp. Evermann and Goldsborough. 106.
——— *robustus*. Meek. 257.
——— *santamariae*. Evermann and Goldsborough. 106.
——— *santarosaliae*. Meek. 257.

Odontostilbe [Characinidae].
——— *paraguayensis*. Eigenmann and Kennedy. 98.
——— *trementinae*. Eigenmann and Kennedy. 98.

Onus [Gadidae].
——— *granti*. Regan. 322.

Ophichthys [Apodes].
——— *brecimanus*. Regan. 324.

Ophiocephalus [Ophiocephalidae].
——— *studeri*. Volz. 400.

Orthomyleus n. subgen. [Characinidae]. Eigenmann. 93.

Orthrias n. gen. [Cyprinidae]. Jordan and Fowler. 213.
——— *oreas*. Jordan and Fowler. 213.

Osmeroides [Elopidae].
——— *ornatus*]. Hay. 163.
——— *ponticagus*]. Hay. 163.

Ostracion [Plectognathi].
——— *oahuensis*. Jordan and Evermann. 208.

Osurus n. gen. [Leptoscopidae]. Jordan and Evermann. 208.

Othonophanes n. gen. [Characinidae]. Eigenmann. 93.

Pachynathus [Plectognathi].
——— *nycteris*. Jordan and Evermann. 208.

Pagrus [Sparidae]
——— *nigripennis*. Boulenger. 45.

Pantosteus [Cyprinidae].
——— *lahontan*. Rutter. 340.

Paralichthys [Pleuronectidae].
——— *fernandezianus*. Steindachner. 377.
——— *hilgendorfi*. Steindachner. 377.

Paratilapia [Cichlidae].
——— *luebberti*. Hilgendorf. 178.

Pelmatochromis [Cichlidae].
——— *boulengeri*. Lönnberg. 247.
——— *longirostris*. Boulenger. 41.
——— *pellegrini*. Boulenger. 32.

Periophthalmus [Gobiidae].
——— *phya*. Johnstone. 202.

Peristedion [Triglidae].
——— *altipinnis*. Regan. 315.

Petersius [Characinidae].
——— *major*. Boulenger. 41.

Petrocephalus [Mormyridae].
——— *ansorgii*. Boulenger. 32.

Petrotyx n. gen. [Zoarcidae]. Heller and Snodgrass. 168.
——— *hopkinsi*. Heller and Snodgrass. 168.

Phractura [Siluridae].
——— *longicauda*. Boulenger. 41.

Phlyctaenaspis [Arthrodira].
——— *germanica*. Traquair. 392*a*.

Piabucina [Characinidae].
——— *astrigata*. Regan. 324.
——— *pleurotaenia*. Regan. 324.

Pimelodus [Siluridae].
——— *griseus*. Regan. 324.
——— *taeniophorus*. Regan. 324.

Piaractus n. gen. [Characinidae]. Eigenmann. 93.

Pikea [Serannidae].
——— *aurora*. Jordan and Evermann. 208.

Pimephales [Cyprinidae].
——— *anuli*. Kendall. 220.

Plecostomus [Loricariidae].
——— *boulengeri*. Eigenmann and Kennedy. 98.

Plectromus [Berycidae].
——— *macrophthalmus*. Gilchrist. 145.

Poecilurichthys [Characinidae].
——— *moenkhausii*. Eigenmann and Kennedy. 98.

Pomacentrus [Pomacentridae].
——— *arcifrons*. Heller and Snodgrass. 168.
——— *jenkinsi*. Jordan and Evermann. 208.
——— *redemptus*. Heller and Snodgrass. 168.

Pontinus [Scorpaenidae].
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Priacanthus [Serranidae].
——— *alalaua*. Jordan and Evermann. 208.
——— *mecki*. Jenkins. 201.

Pristigaster [Clupeidae].
——— *effulgens*. Regan. 324.

Prosoplismus n. gen. [Serranidae]. Waite. 405.

Protosphyraena [Ganoidei].
——— *scquax* †. Hay. 162.

Pseudrogaster [Characinidae].
——— *curviventris*. Eigenmann and Kennedy. 98.

Psenes [Stromateidae].
——— *edwardsii*. Eigenmann. 91.

Pseudocheilinus [Labridae].
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Pseudomonacanthus [Plectognathi].
——— *degeni*. Regan. 313.
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——— *punctulatus*. Regan. 313.

Pseudupeneus [Mullidae].
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——— *porphyreus*. Jenkins. 201.

Pterois [Scorpaenidae].
——— *sphex*. Jordan and Evermann. 208.

Pterophyllum [Cichlidae].
——— *altum*. Pellegrin. 297.

Pterygophlichthys [Loricariidae].
——— *anisitsi*. Eigenmann and Kennedy. 98.
——— *juvens*. Eigenmann and Kennedy. 98.

Ptychobarbus [Cyprinidae].
——— *kaznakovi*. Nikolskij. 274.

Pycnosterinx [Berycidae].
——— *lecrispinosus* †. Hay. 163.

Pyrrhulina [Characinidae].
——— *australe*. Eigenmann and Kennedy. 98.

Quisquilius n. gen. [Gobiidae]. Jordan and Evermann. 208.
——— *eugenius*. Jordan and Evermann. 208.

Raia [Plagiostomi].
——— *cyclophora*. Regan. 315.
——— *magellanica*. Steindachner. 377.
——— *tengu*. Jordan and Fowler. 212.
——— *whitfieldi* †. Hay. 163.

Rasbora [Siluridae].
——— *cordimaculata*. Volz. 400.
——— *elegans*. Volz. 400.

Rhadinichthys [Ganoidei].
——— *elegans* †. Wellburn. 410.

Rhamdia [Siluridae].
——— *oaxacae*. Meek. 257.

Rhamphodus n. gen. [Holocephali]. Jaekel. 199.
——— *tetraodon* † Jaekel. 199.

Rhiachichthys [Gobiidae].
——— *novae-guineae*. Boulenger. 34.

Rhinellus [Scopelidae].
——— *delicatus* †. Hay. 163.

Rhinobatus [Plagiostomi].
——— *cretes*.† Hay. 163.

Rhinoscopelus [Scopelidae].
——— *oceanicus*. Jordan and Evermann. 208.

Sagenodus [Dipnoi].
——— *pertenuis*. Eastman. 89.

Salarias [Blennidae].
——— *cypho*. Jenkins. 201.
——— *rutilus*. Jenkins. 201.
——— *saltans*. Jenkins. 201.

Sardinus [Scopelidae].
——— *imbellis*.† Hay. 162.

Saurichthys [Chondrostei].
——— *latifrons*.† Frech. 301.
——— *lepidosteoides*.† Frech. 301.

Scaridea n. gen. [Scaridae]. Jenkins. 201.
——— *balia*. Jenkins. 201.
——— *zonarcha*. Jenkins. 201.

Scarus [Scaridae].
——— *barbarus*. Jordan and Evermann. 208.
——— *jenkinsi*. Jordan and Evermann. 208.

Scarus [Scaridae].
——— *lauia.* Jordan and Evermann. 208.
——— *noyesi.* Heller and Snodgrass. 168.

Schizothorax [Cyprinidae].
——— *kozlovi.* Nikolskij. 273.

Sciaena [Sciaenidae].
——— *perissa.* Heller and Snodgrass. 168.
——— *peruana.* Steindachner. 377.

Scleborhynchus [Plagiostomi].
——— *hiram.*† Hay. 163.
——— *sentus.*† Hay. 163.
——— *solomonis* Hay. 164.

Scorpaenopsis [Scorpaenidae].
——— *catocala.* Jordan and Evermann. 208.

Sebastapistes [Scorpaenidae].
——— *contorta.* Jenkins. 201.
——— *corallicola.* Jenkins. 201.
——— *galactacma.* Jenkins. 201.

Sebastopsis [Scorpaenidae].
——— *kelloggi.* Jenkins. 201.

Sectator [Cyphosidae].
——— *azureus.* Jordan and Evermann. 208.

Selachophidium n. gen. [Zoarcidae]. Gilchrist. 141.
——— *guentheri.* Gilchrist. 144.

Skiffia n. gen. [Cyprinodontidae]. Meek. 257.
——— *lermae.* Meek. 257.
——— *variegata.* Meek. 257.

Sphyraena [Sphyraenidae].
——— *idiastes.* Heller and Snodgrass. 168.

Squalus [Plagiostomi].
——— *mitsukurii.* Jordan and Snyder. 212.

Stenoprotome† n. gen. [Ganoidei]. Hay. 163.
——— *hamata.*† Hay. 163.

Stichonodon n. nom. [Characinidae]. Eigenmann. 93.

Synaptura [Pleuronectidae].
——— *callizona.* Regan. 316.
——— *smithii.* Regan. 316.

Synodontis [Siluridae].
——— *fuelleborni.* Hilgendorf und Pappenheim. 181.
——— *melanopterus.* Boulenger. 32.
——— *zambezensis: rukwaensis* n. subsp. Hilgendorf and Pappenheim. 181.

Tetrodon [Plectognathi].
——— *borneensis.* Regan. 313.
——— *brevipinnis.* Regan. 313.
——— *maculatus.* Regan. 313.
——— *pleurogramma.* Regan. 313.

Teuthis [Teuthidae].
——— *atrimentatus.* Jordan and Evermann. 208.
——— *guntheri.* Jenkins. 201.
——— *leucoparcius.* Jenkins. 201.
——— *umbra.* Jenkins. 201.

Tilapia [Cichlidae].
——— *boulengeri.* Pellegrin. 297.
——— *giardi.* Pellegrin. 297.
——— *lata* var. *camerunensis* n. var. Lönnberg. 247.
——— *linnellii.* Lonnberg. 247.
——— *nilotica: rukwaensis* n. subsp. Hilgendorf and Pappenheim. 181.

Toxus n. gen. [Cyprinodontidae]. Eigenmann. 97.
——— *riddlei.* Eigenmann. 97.

Trachichthodes n. gen. [Berycidae]. Gilchrist. 144.
——— *spinosus.* Gilchrist. 144.

Triacanthus [Plectognathi].
——— *indicus.* Regan. 314.

Trichomycterus [Siluridae].
——— *meridae.* Regan. 324.
——— *retropinnis.* Regan. 324.
——— *vittatus.* Regan. 324.

Tripterigion [Blennidae].
——— *atriceps.* Jenkins. 201.

Tripterophycis [Gadidae].
——— *gilchristi.* Boulenger. 44.

Tropidichthys [Plectognathi].
——— *epilampros.* Jenkins. 201.
——— *psegma.* Jordan and Evermann. 209.
——— *sahuensis.* Jenkins. 201.

Trypauchenopsis n. gen. [Gobiidae]. Volz. 401.
——— *intermedius.* Volz. 400.

Upeneus [Mullidae].
——— *argo.* Jordan and Evermann. 208.

Urenchelys [Apodes].
——— *germanus*†. Hay. 163.

Verriculus n. gen. [Labridae]. Jordan and Evermann. 208.
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Vitraria n. gen. [Gobiidae]. Jordan and Evermann. 208.
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Xiphophorus [Cyprinodontidae].
——— *jalapae*. Meek. 257.
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Zeus [Zeidae].
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Acanthodactylus [Lacertilia].
——— *scutellatus* : *aureus* n. subsp. Günther. 101.

Alsophylax [Lacertilia].
——— *persicus.* Nikolískij. 177.

Anadia [Lacertilia].
——— *bitaeniata.* Boulenger. 32.

Anolis [Lacertilia].
——— *jacare.* Boulenger. 27.

Apostolepis [Ophidia].
——— *pymi.* Boulenger. 31.

Atelopus [Ecaudata].
——— *erythropus.* Boulenger. 33.
——— *oxyrhynchus.* Boulenger. 33.

Atractus [Ophidia].
——— *erythromelas.* Boulenger. 27.

Bachia [Lacertilia].
——— *lineata.* Boulenger. 32.

Baena [Chelonia].
——— *hatcheri*†. Hay. 112.

Baptanodon [Ichthyosauria].
——— *marshi*†. Knight. 133.

Batrachosuchus n. gen. [Stegocephala]. Broom, R. 45.
——— *browni.* Broom. 45.

Brachiosaurus n. gen. [Dinosauria] Riggs. 215.
——— *altithorax*†. Riggs. 215.

Bufo [Ecaudata].
——— *decorsei.* Mocquard. 165.
——— *fissipes.* Boulenger. 33.
——— *granti.* Boulenger. 29.
——— *longeeristatus.* Werner. 288.
——— *nasicus.* Werner. 288.
——— *persicus* Nikolískij. 177.

Chamaeleon [Rhiptoglossa].
——— *angusticornatus.* Barbour. 10.
——— *macrorhinus.* Barbour. 10.

Claosaurus [Dinosauria].
——— (?) *affinis*†. Wieland. 298.

Clemmys [Chelonia].
——— *quntiana*†. Roger. 219.
——— *hesperia*†. Hay. 111.
——— *saxea*†. Hay. 111.

Conolophus [Lacertilia].
——— *pallidus.* Heller. 113.

Contia [Ophidia].
——— *bicolor.* Nikolískij. 253.
——— *transcaspica.* Nikolískij. 176.

Crotaphytus [Lacertilia].
——— *fasciolatus.* Mocquard. 165.

Cyclemys [Chelonia].
——— *annandalii.* Boulenger. 35.

Cyclura [Lacertilia].
——— *rileyi.* Stejneger. 260.

Dendrobates [Ecaudata].
——— *amoenus.* Werner. 296.

Diceratosaurus n. gen. [Stegocephala]. Jaekel. 123.

Diplodactylus [Lacertilia].
——— *bilineatus.* Lucas and Frost. 151.

Dipsadomorphus [Ophidia].
——— *pallidus.* Boulenger. 35.

Distira [Ophidia].
——— *hendersoni.* Boulenger. 36.

Draco [Lacertilia].
——— *gracilis.* Barbour. 9.

Elaps [Ophidia].
——— *aequicinctus.* Werner. 288.
——— *alienus.* Werner. 288.

Euclastes [Chelonia].
——— (?) *kochi*†. Lörenthy. 147.

Eupemphix [Ecaudata].
——— *gadovii.* Boulenger. 33.

Euspondylus [Lacertilia].
——— *brevifrontalis.* Boulenger. 32.

Gehyra [Lacertilia].
——— *yunnanensis*. Boulenger. 32.
Glauconia [Ophidia].
——— *macrura*. Boulenger. 34.
Grobbenia n. nom. [Ophidia]. Poche. 198.
Haplocanthosaurus [Dinosauria]. Hatcher. 106.
——— *utterbacki*†. Hatcher. 107.
Haplocanthus n. gen. [Dinosauria]. Hatcher. 105.
——— *priscus*†. Hatcher. 105.
Helminthophis [Ophidia].
——— *cancellei*. Mocquard. 165.
Hemidactylus [Lacertilia].
——— *ophiolepis*. Boulenger. 26.
——— *pumilio* n. nom. Boulenger. 34.
Heterodon [Ophidia].
——— *brouni*. Stejneger. 259.
Homalocranium [Ophidia].
——— *alticola*. Boulenger. 31.
Hyla [Ecaudata].
——— *dolloi*. Werner. 288.
——— *misera*. Werner. 288.
Hylambates [Ecaudata].
——— *cassinoides*. Boulenger. 33.
Hylodes [Ecaudata].
——— *beatae*. Boulenger. 33.
——— *briceni*. Boulenger. 27.
——— *granulosus*. Boulenger. 33.
——— *platylaetylus*. Boulenger. 33.
Ixalus [Ecaudata].
——— *horridus*. Boulenger. 35.
Lachesis [Ophidia].
——— *peruvianus*. Boulenger. 31.
Latastia [Lacertilia].
——— *degeni*. Boulenger. 26.
Leptocheirus† n. gen. [Ichthyosauria]. Merriam. 159.
——— *zitteli*†. Merriam. 159.
Lialis [Lacertilia].
——— *jicari*. Boulenger. 32.
Liophis [Ophidia].
——— *bipraeocularis*. Boulenger. 31.
Lygosoma [Lacertilia].
——— *blochmanni*. Tornier. 270.
——— *granulatum*. Boulenger. 24.
——— *louisiadense*. Boulenger. 32.
——— *macropisthopus*. Werner. 288.
Lygosoma [Lacertilia].
——— *milneuse*. Boulenger. 24.
——— *miodactylum*. Boulenger. 35.
——— *pratti*. Boulenger. 24.
——— *pseudotropis*. Werner. 288.
——— *pulchrum*. Boulenger. 24.
——— *thomasi*. Tornier. 270.
Mabuia [Lacertilia].
——— *polytropis*. Boulenger. 32.
Mantella [Ecaudata].
——— *attemsi*. Werner. 296.
Megalophrys [Ecaudata].
——— *montana* var. *aceras* n. var. Boulenger in Annandale. 35.
Miodon [Ophidia].
——— *christyi*. Boulenger. 31.
Monopeltis [Lacertilia].
——— *boreli*. Mocquard. 165.
——— *unirostralis*. Mocquard. 165.
Ophisaurus [Lacertilia].
——— *ulmensis*. Gerhardt. 93.
Opisthotropis [Ophidia].
——— *lateralis*. Boulenger. 31.
Ophryophryne n. gen. [Ecaudata]. Boulenger. 28.
——— *microstoma*. Boulenger. 28.
Ornitholestes† n. gen. [Dinosauria]. Osborn. 184.
——— *hermanni*†. Osborn. 184.
Pelomedusa [Chelonia].
——— *pliocaenica*†. Reinach, von. 212.
——— *progaleata*†. Reinach, von. 212.
Phrynonax [Ophidia].
——— *fauchereri*. Mocquard. 165.
Phyllobates [Lacertilia].
——— *alboguttatus*. Boulenger. 27.
Phyllodactylus [Lacertilia].
——— *gilberti*. Heller. 113.
Plethodontohyla [Ecaudata].
——— *angulifera*. Werner. 288.
Podocnemis [Chelonia].
——— *antiqua*. Andrews. 2.
——— *blanckenhorni*†. Reinach, von. 212.
——— *fajumensis*. Andrews. 2.
——— *stromeri*†. Reinach, von. 212.
Pœcilopholis n. gen. [Ophidia]. Boulenger. 31.
——— *cameronensis*. Boulenger. 31.

Proneusticosaurus n. gen.† [Plesiosauria]. Volz. 283.
——— *madelungi*†. Volz. 283.
——— *silesiacus*†. Volz. 283.

Ptychogaster [Chelonia].
——— *reinachi*†. Roger. 219.

Rana [Ecaudata].
——— *budgetti*. Boulenger. 33.
——— *mortenseni*. Boulenger. 30.
——— *nasica*. Boulenger. 28.
——— *swinhoana*. Boulenger. 33.

Rhacophorus [Ecaudata].
——— *corticalis*. Boulenger. 28.
——— *robinsonii*. Boulenger. 35.

Scylacosaurus n. gen. [Anomodontia]. Broom. 44.
——— *sclateri*†. Broom. 41.

Simotes [Ophidia].
——— *lonjicauda*. Boulenger. 31.

Sphaerodactylus [Lacertilia].
——— *pacificus*. Stejneger. 258.

Stenometopon n. gen. [Anomodontia]. Boulenger. 25.
——— *taylori*†. Boulenger. 25.

Stereogenys [Chelonia].
——— *libyca*. Andrews. 2.
——— *podocnemoides*†. Reinach, von. 212.

Sternothaerus [Chilonia].
——— *dewitzianus*†. Reinach, von. 212.

Stylemys [Chelonia].
——— *calaverensis*†. Sinclair. 247.

Telmatosaurus† n. nom. [Dinosauria]. Nopsca, *jun.* 178.

Testudo [Chelonia].
——— *porteri*. Rothschild. 224.
——— *pseudemys*. Boulenger. 35.
——— *scimundi*. Boulenger. 29.

Toretocnemus† n. gen. [Ichthyosauria]. Merriam. 159.
——— *californicus*†. Merriam. 159.

Toxicocalamus [Lacertilia].
——— *stanleyanus*. Boulenger. 24.

Tretanorhinus [Ophidia].
——— *taeniatus*. Boulenger. 31.

Trionyx [Chelonia].
——— *clavatomarginatus*†. Lörenthy. 147.
——— *plioeacenicus*†. Reinach, von. 212.
——— *seuckenbergianus*†. Reinach, von. 212.

Tropidonotus [Ophidia].
——— *obalskii*. Mocquard. 165.

Typhlosaurus [Lacertilia].
——— *cregoi*. Boulenger. 32.

Tropidurus [Lacertilia].
——— *grayi*: *magnus* n. subsp. Heller. 113.

Typhlops [Ophidia].
——— *psittacus*. Werner. 288.

Uroplates [Lacertilia].
——— *fimbriatus*: *lichenius* n. subsp. Rothschild and Jordan. 225.

Varanus [Lacertilia].
——— *spenceri*. Lucas and Frost. 151.

Werneria n. nom. [Ecaudata]. Poche. 198.

Zamenis [Ophidia].
——— *bornmüllerorum*. Werner. 289.

Zatrachys [Stegocephala].
——— *crucifer*†. Case. 57.

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——— ——— early nesting. **Raeburn**, H. Zoologist, London, (Ser. 4), **7**, 1903, (153).

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——— *melanoleucus*, *P. sulcirostris*, eggs. **Le Souëf**, D. Emu, Melbourne, **2**, 1903, (158).

——— *mexicanus*. **Nelson**, E. W. Condor, Santa Clara, Cal., **5**, 1903, (139–145, with pl.).

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——— *gouldi*, eggs. **Le Souëf**, D. Emu, Melbourne, **2**, 1903, (158).

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Ibis moluccu, eggs. **Le Souëf**, D. Emu, Melbourne, **2**, 1903, (157).

Lamprebis olivacea of Dubus. **Salvadori**, T. Ibis, London, **1903**, (178–188).

Notophoyx pacifica, eggs. **Le Souëf**, D. Emu, Melbourne, **2**, 1903, (157–158).

Platibis flavipes, eggs. **Le Souëf**, D. *l.c.* (157).

Plegadis falcinellus in Yorkshire. **Arundel**, W. B. Ibis, London, **1903**, (136).

——— ——— in Scotland. **Macleay**, W. Ann. Scot. Nat. Hist., Edinburgh, **1903**, (186).

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——— ——— in California. **Daggett**, F. S. Condor, Santa Clara, Cal., **5**, 1903, (18–19).

——— ——— in Colorado. **Felger**, A. H. Auk, Cambridge, Mass., (N. Ser.), **20**, 1903, (65).

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Poliolimnas cinereus, eggs. **Le Souëf**, D. Emu, Melbourne, **2**, 1903, (156).

Porphyrio bellus Gould, note. **Hall**, R. *l.c.* **3**, 1903, (15).

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Arenaria interpres. Pacific Ocean. **Bryan**, W. A. *l.c.* (210–211).

Bartramia longicauda breeding dates, Massachusetts. **Durfee**, O. *l.c.* (65–66).

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Uria californica, habits. **Grinnell**, J. *l.c.* (20).

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Haplopelia poensis n. sp. Fernando Po. **Alexander**, B. London, Bull. Brit. Ornith. Cl., **13**, 1903, (33).

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Lophophaps leucogaster, eggs. **Le Souëf**, D. *l.c.* **2**, 1903, (154).

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Licmetis nasica, eggs. **Le Souëf**, D. *l.c.* (153).

Myiopsittacus monachus, building in the open at Park Hill, New Forest. **Rawnsley**, W. F. Zoologist, London, (Ser. 4), **7**, 1903, (1–4).

Platycercus amathusia, description of eggs. **Le Souëf**, D. Emu, Melbourne, **3**, 1903, (55).

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Spathopterus alexandrae, notes. **Keartland**, G. A. Vict. Nat., Melbourne, **19**, 1903, (152–153).

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——— ——— in Islay. **Lumsden**, J. *l.c.* (245).

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Dacelo gigas, colour reversion in eggs. **Hall**, R. Emu, Melbourne, **2**, 1903, (199–200, pl. XI).

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——— *pyrrhopygius, H. sanctus*, eggs. **Le Souëf**, D. Emu, Melbourne, **2**, 1903, (151–152).

——— *sanctus, H. macleayi*, colour reversion in eggs. **Hall**, R. *l.c.* (199–200).

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Cryptoglaux acadica acadica. California. **Adams**, E. Condor, Santa Clara, Cal., **5**, 1903, (19).

Glaucidium gnoma in Utah. **Johnson**, H. C. *l.c.* (81).

Megascops asio maxwelliae in Colorado. **Burnett**, W. L. *l.c.* (156).

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Ninox rufostrigata from Obi Id. **Hartert**, E. Nov. Zool. Tring, **10**, 1903, (1).

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Premnoplex coloratus n. sp. Colombia. **Bangs**, O. Cambridge, Mass., Proc. New Engl. Zool. Cl., **3**, 1902, (81–90).

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——— ——— visiting Bartragh Island, Killala Bay. **Warren**, R. Zoologist, London, (Ser. 4), **7**, 1903, (190).

——— *borealis* in Yorkshire. **Clarke**, E. London, Bull. Brit. Ornith. Cl., **13**, 1903, (68–69).

——— ——— *and M. feldegg* in Sussex. **Butterfield**, W. R. *l.c.* (69).

——— *flava* in Sussex. **Ticehurst**, N. F. *l.c.* (78).

——— *lugubris*, nesting. **Butler**, S. A. Zoologist, London, (Ser. 4), **7**, 1903, (315).

——— *taivana* (Swinhoe) near Calcutta. **Walton**, H. I. Calcutta, J. As. Soc. Beng., **62**, Pt. ii, 1903, (9–10).

Timeliidae.

Bathmocercus fuscipennis n. sp. Camaroons. **Sharpe**, R. B. London, Bull. Brit. Ornith. Cl., **14**, 1903, (19).

Calamanthus montanellus n. sp. W. Australia. **Milligan**, A. Wm. Emu, Melbourne, **2**, 1903, (200–201).

Crateropus smithi nn. subspp. Africa. **Neumann**, O. London, Bull. Brit. Ornith. Cl., **14**, 1903, (15).

Cyanoderma fulvicentris n. sp. Sumatra. **Richmond**, C. W. Washington, D.C., Smithsonian Inst., Nation. Mus. Proc., **26**, 1903, (485–524).

Heminra leucogastra: *musica* n. subsp. **Nelson**, E. W. Washington, D.C., Proc. Biol. Soc., **16**, 1903, (151–160).

Macrosphenus poensis n. sp. Fernando Po. **Alexander**, B. London, Bull. Brit. Ornith. Cl., **13**, 1903, (36); Ibis, London, **1903**, (362).

Malacias capistrata. **Phillipps**, R. Avicult. Mag., Brighton, (Ser. 2), **1**, 1903, (255–262, cum tab.).

Mesia argentoris. **Phillipps**, R. *l.c.* (379–390).

——— ——— young specimen. **Finn**, F. London, Bull. Brit. Ornith. Cl., **14**, 1903, (24).

Myiophoneus temminckii. **Astley**, H. D. Aviculr. Mag., Brighton, (Ser. 2), **1**, 1903, (196–201, cum tab.).

Pomatorhinus ruficollis Gould, note. **Hall**, R. Emu, Melbourne, **3**, 1903, (41).

——— *temporalis* Vigors and Horsfield. **French**, C. Viet. Journ. Dep. Agric., Melbourne, **2**, 1903, (68–69, with 1 pl.).

——— *tickelli*: *hainanus* n. subsp. Hainan. **Rothschild**, *Hon.* W. London, Bull. Brit. Ornith. Cl., **14**, 1903, (9).

Proparus sordidior n. sp. China. **Rippon**, G. *l.c.* **13**, 1903, (60).

Psittiparus gularis: *hainanus* n. subsp. Hainan. **Rothschild**, *Hon.* W. *l.c.* **14**, 1903, (7).

Pyctorhis sinensis, notes. **Phillipps**, R. Aviculr. Mag., Brighton, (Ser. 2), **1**, 1903, (83–87, cum tab.).

Stachyridopsis ruficeps: *goodsoni* n. subsp. Hainan. **Rothschild**, *Hon.* W. London, Bull. Brit. Ornith. Cl., **14**, 1903, (8–9).

Stachyris chrysops n. sp. Siam. **Richmond**, C. W. Washington, D.C., Proc. Biol. Soc., **15**, 1902, (157–158).

——— *guttata*: *swinhoei* n. subsp. Hainan. **Rothschild**, *Hon.* W. London, Bull. Brit. Ornith. Cl., **14**, 1903, (8).

Suthora craddocki n. sp. Mekong valley. **Bingham**, C. T. *l.c.* **13**, 1903, (54–55).

——— *styani* n. sp. China. **Rippon**, G. *l.c.* (54).

——— *thompsoni* n. sp. **Bingham**, C. T. *l.c.* (63).

Trochalopteron canorum austeni n. subsp. Hainan. **Rothschild**, *Hon.* W. *l.c.* **14**, 1903, (8).

Pycnonotidae.

Ixleda alfredi n. sp. Nyasa-land. **Shelley**, G. E. London, Bull. Brit. Ornith. Cl., **13**, 1903, (61).

——— *batesi* n. sp. Camaroons. **Sharpe**, R. B. *l.c.* **14**, 1903, (19).

Criniger lucasi n. sp. Central Molluccas. **Hartert**, E. Nov. Zool., Tring, **10**, 1903, (13).

Hypsipetes psaroides. **Page**, W. T. Aviculr. Mag., Brighton, (Ser. 2), **1**, 1903, (209–211).

Phyllastrophus pocusis n. sp. Fernando Po. **Alexander**, B. London, Bull. Brit. Ornith. Cl., **13**, 1903, (35); Ibis, London, **1903**, (364–365).

Stelgidillas pocusis n. sp. Fernando Po. **Alexander**, B. London, Bull. Brit. Ornith. Cl., **13**, 1903, (35); Ibis, London, **1903**, (363).

Muscicapidae.

Alcippe stictigula n. sp. Nyasaland. **Shelley**, G. E. London, Bull. Brit. Ornith. Cl., **13**, 1903, (61).

Alsconax pocusis n. sp. Fernando Po. **Alexander**, B. *l.c.* **14**, 1903, (17–18).

Arses telescophthalmus and its allies. **Rothschild**, W. and **Hartert**, E. Nov. Zool., Tring, **10**, 1903, (460–462).

Batis pocusis n. sp. Fernando Po. **Alexander**, B. London, Bull. Brit. Ornith. Cl., **13**, 1903, (34); Ibis, London, **1903**, (386–387).

Cryptolopha everetti: *waterstradti* n. subsp. Central Molluccas. **Hartert**, E. Nov. Zool., Tring, **10**, 1903, (9–10).

——— *herberti* n. sp. Fernando Po. **Alexander**, B. London, Bull. Brit. Ornith. Cl., **13**, 1903, (35); Ibis, London, **1903**, (371).

——— *mindanensis* n. sp. Philippines. **Hartert**, E. London, Bull. Brit. Ornith. Cl., **14**, 1903, (12).

——— *waigiuensis* n. sp. Waigiou. **Hartert**, E. *l.c.* **13**, 1903, (70).

Diaphorophyia chlorophrys n. sp. Fernando Po. **Alexander**, B. *l.c.* (34); Ibis, London, **1903**, (385–386).

Gerygone neglecta: *dohertyi* n. subsp. Papua. **Rothschild**, *Hon.* W. and **Hartert**, E. Nov. Zool., Tring, **10**, 1903, (473).

Lioptilus claudei n. sp. Fernando Po. **Alexander**, B. London, Bull. Brit. Ornith. Cl., **13**, 1903; Ibis, London, **1903**, (382).

Microeca grisiceps: *occidentalis* n. subsp. Papua. **Rothschild**, *Hon.* W. and **Hartert**, E. Nov. Zool., Tring, **10**, 1903, (471).

Monarcha inornata and its allies. **Hartert,** E. *l.c.* (26).

——— *menckei* n. sp. **Heinroth,** O. J. Ornith, Leipzig, **1902,** (451–452).

Muscicapa atricapilla. **Hermann,** R. Ornith. Monatschr., Gera, **28,** 1903, (356–359, mit 1 Taf.).

——— *lembeyi* Gundlach. Florida. **Howe,** R. H., *jun.* Washington, D.C., Proc. Biol. Soc., **16,** 1903, (51).

——— *parca.* **Hermann,** R. Natur u. Haus, Dresden, **11,** 1903, (353–355).

Muscicapula hyperythra : pallidipectus n. subsp. Eastern Archipelago. **Hartert,** E. Nov. Zool., Tring, **10,** 1903, (52–53).

Myiagra galeata and its allies. **Hartert,** E. *l.c.* (9).

Piezorhynchus nitidus, eggs. **Le Souëf,** D. Emu, Melbourne, **2,** 1903, (144).

Pseudogerygone brunneipectus, P. chloronota, P. lacrigostra, eggs. **Le Souëf,** D. *l.c.* (114–115).

Rhinomyias umbratilis : richmondi n. subsp. **Stone,** W. Philadelphia, Pa., Proc. Acad. Nat. Sci., **54,** 1902, (670–691).

Rhipidura diemenensis in Tasmania, note. **Littler,** F. M. Emu, Melbourne, **3,** 1903, (26–27).

——— *dryas, R. phasiana,* description of eggs. **Le Souëf,** D. *l.c.* (54–55).

——— *matthiae* n. sp. **Heinroth,** O. J. Ornith., Leipzig, **1902,** (457).

——— *nigrocinna momea* n. sp. Philippines. **Hartert,** E. London, Bull. Brit. Ornith. Cl., **14,** 1903, (12).

——— *tricolor,* eggs. **Le Souëf,** D. Emu, Melbourne, **2,** 1903, (143).

Siphia hoëvelli n. sp. Celebes. **Meijer,** A. B. Leiden, Notes Mus. Jentink, **23,** 1903, (185–189).

Sisura inquieta, eggs. **Le Souëf,** D. Emu, Melbourne, **2,** 1903, (143).

Smithornis sharpei n. sp. Fernando Po. **Alexander,** B. London, Bull. Brit. Ornith. Cl., **13,** 1903, (34); Ibis, London, **1903,** (384–385).

——— *zenkeri* n. sp. Afrika. **Reichenow,** [A.]. Ornith. Monatsber., Berlin, **10,** 1902, (8); **11,** 1903, (40–41).

Stoparola panayensis in Obi Major Id. **Hartert,** E. Nov. Zool., Tring, **10,** 1903, (10).

Tchitrea procesa n. sp. Sumatra. **Richmond,** C. W. Washington, D.C., Smithsonian Inst., Nation. Mus. Proc., **26,** 1903, (485–524).

Todopsis cyanocephalus : dohertyi n. subsp. Papua. **Rothschild,** *Hon.* W. and **Hartert,** E. Nov. Zool., Tring, **10,** 1903, (177).

Turdidae.

General.

Aplin, O. V. On the courting of the robin. Ibis, London, **1903,** (132–133).

Dresser, H. E. On some rare or unfigured eggs of Palaearctic birds. *l.c.* (88–89, pl. III).

Otto, W. Das Blaukehlchen. Schweiz. Bl. Ornithol., Zürich, **27,** 1903, (311, 313, mit 1 fig.).

Raspail, X. Le chant matinal du Merle noir. Ornis, Paris, **11,** 1900–1901, [1902], (433–436).

Weber, S. A. Das Blaukehlchen. Ornithol. Beob., Bern, **1,** 1902, (181–182, 189–190).

Winteler, J. Die Wachholderdrossel als Brutvogel auch im der Schweiz. *l.c.* **2,** 1903, (149, 193–194).

Whitaker, J. I. S. On the proper names of the two forms of black-eared chats. Ibis, London, **1903,** (408–410).

Special.

Alethe moori n. sp. Fernando Po. **Alexander,** B. London, Bull. Brit. Ornith. Cl., **13,** 1903, (37); Ibis, London, **1903,** (377–378).

Calamocichla cunensis n. sp. Damara Land. **Hartert,** E. London, Bull. Brit. Ornith. Cl., **13,** 1903, (62).

——— *poensis* n. sp. Fernando Po. **Alexander,** B. London, Bull. Brit. Ornith. Cl., **13,** 1903, (37); Ibis, London, **1903,** (376–377).

Callene nn. spp. Fernando Po. **Alexander,** B. London, Bull. Brit. Ornith. Cl., **13,** 1903, (37); Ibis, London, **1903,** (380–381).

Callene nn. spp. Nyasa-land. **Shelley**, G. E. London, Bull. Brit. Ornith. Cl., **13**, 1903, (60-61).

Calliope kamtschatkensis taken in the Pacific Ocean. **McGregor**, R. Condor, Santa Clara, Cal., **5**, 1903, (19).

Catharus gracilirostris: accentor n. subsp. Panama. **Bangs**, O. Cambridge, Mass., Proc. New Engl. Zool. Cl., **3**, 1902, (15-70).

Cisticola exilis Vigors and Horsfield, note. **Hall**, R. Emu, Melbourne, **3**, 1903, (41).

Cyanecula suecica near Eastbourne. **Arnold**, E. C. Zoologist, London, (Ser. 4), **7**, 1903, (389).

——— ——— **Otto**, W. Schweiz. Bl. Ornithol., Zurich, **27**, 1903, (311, 313, 1 fig.).

——— ——— **Weber**, S. A. Ornithol. Beob., Bern, **1**, 1902, (181-182, 189-190).

——— *wolfi*, British example at Scarborough. **Nelson**, T. H. Zoologist, London, (Ser. 4), **7**, 1903, (23).

——— ——— British examples. **Nicholl**, M. J. *l.c.* (131).

Daulias luscinia, late arrival in Somerset. **Lewis**, G. *l.c.* (226).

Erithacus cairii = *titys*. **Bau**, A. Ornith. Monatsber., Berlin, **11**, 1903, (113-114).

——— *gutturalis* in S. Persia. **Witherby**, H. F. London, Bull. Brit. Ornith. Cl., **13**, 1903, (62).

——— *rubecula* and its allies. **Hartert**, E. London, Bull. Brit. Ornith. Cl., **13**, 1903, (71).

——— *titys* L., eigentümlicher Nistplatz. **Koeper**. Ornith. Monatsber., Berlin, **11**, 1903, (140).

Geocichla macrorhyncha in Tasmania, notes. **Littler**, F. M. Emu, Melbourne, **3**, 1903, (81-82).

Hylocichla guttata pallasii. Ohio. **Jones**, L. Oberlin, Ohio, Wilson Bull., (Ornith.), (N. Ser.), **10**, 1903, (112-113).

Ixoreus, on the generic name. **Sclater**, P. L. Ibis, London, **1903**, (142).

Luscinia philomela, Unterschied zwischen Männchen und Weibchen und zwischen jüngeren Sprossern und älteren. **Kisch**, O. M. Gefied. Welt, Magdeburg, **32**, 1903, (309-310).

Megalurus striatus n. sp. W. Australia. **Milligan**, A. W. Emu, Melbourne, **2**, 1903, (201-202).

Merula, colour. Oberlin Ohio, Bull. Agassiz Ass. Wilson Ornith. Ch., (N. Ser.), **9**, 1902, (109).

——— *algira* n. sp. **Madarász**, J. Budapest. Ann. Hist.-Nat. Mus. Nat. Hung., **1**, 1903, (559).

——— *aterrima* n. sp. **Madarász**, J. von. Ornith. Monatsber., Berlin, **11**, 1903, (186).

——— *baraka* n. sp. Equatorial Africa. **Sharpe**, R. B. London, Bull. Brit. Ornith. Cl., **14**, 1903, (19).

——— *merula*, nesting sites. **Service**, R. Zoologist, London, (Ser. 4), **7**, 1903, (69-70).

——— ——— laying on the ground. **Godfrey**, R. *l.c.* (70).

Myadestes townsendii, nesting. **Anthony**, A. W. Condor, Santa Clara, Cal., **5**, 1903, (10-12).

Oreocincla horsfieldi: affinis n. subsp. Siam. **Richmond**, C. W. Washington, D.C., Proc. Biol. Soc., **15**, 1902, (157-158).

Petroeca ramsayi, eggs. **Le Souëf**, D. Emu, Melbourne, **2**, 1903, (114).

Polioptila nn. spp. Mexico, Nicaragua, Costa Rica. **Ridgway**, R. Washington, D.C., Proc. Biol. Soc., **26**, 1903, (109-110).

——— *caerulea* Massachusetts. **Allen**, F. W. Auk, Cambridge, Mass., (N. Ser.), **20**, 1903, (69).

Ruticilla titys L. **Gengler**, J. Ornith. Monatsschr., Gera, **28**, 1903, (414-420).

——— *nigra* n. sp. Sardinia. **Giglioli**, H. H. London, Bull. Brit. Ornith. Cl., **13**, 1903, (79); Ibis, London, **1903**, (581-584).

——— *phoenicura*, notes sur sa vie intime dans le Perche. **Reboussin**, R. Ornis, Paris, **11**, 1900-1901, [1902], (461-464).

——— *titys* in Dorsetshire. **Cambridge**, O. P. Zoologist, London, (Ser. 4), **7**, 1903, (454-455).

——— ——— and *R. phoenicura*, Beobachtungen. **Parrot**, [C.]. München, Jahresber. ornith. Ver., **3**, (1901-1902), 1903, (347-384).

Ruticilla titys R. phoenicurus. **Schuster,** L. Ornith Monatschr., Gera, **28,** 1903, (270-272).

Sialia. **Bruen,** F. Oberlin, Ohio, Bull. Agassiz Ass. Wilson Ornith. Ch., (N. Ser.), **9,** 1902, (121-123).

——— *arctica.* Colorado. **Henderson,** J. Oberlin, Ohio, Wilson, Bull. (Ornith.), (N. Ser.), **10,** 1903, (74-75).

——— *mexicana: australis* n. subsp. **Nelson,** E. W. Washington, D.C., Proc. Biol. Soc., **16,** 1903, (151-160).

Turdus, Wechsel des Bestandes in Erlangen und Umgebung in den letzten 20 Jahren. **Gengler,** J. München, Jahresber. ornith. Ver., **3,** (1901-1902), 1903, (85-87).

——— *merula* and its allies. **Hartert,** E. London, Bull. Brit. Ornith. Cl., **13,** 1903, (71).

——— ——— **Koepert.** Ornith. Monatschr., Gera, **28,** 1903, (322-329, 350-356, 411-414).

——— ——— als Pflanzenschädling. **Ludwig,** F. Zs. Pflanzenkrankh., Stuttgart, **13,** 1903, (210-213).

——— ——— laying on the ground. **Read,** R. Zoologist, London, (Ser. 4), **7,** 1903, (23).

——— ——— Familienleben. **Thiele,** H. Ornith. Monatschr., Gera, **28,** 1903, (372-373).

——— *musicus,* nesting sites. **Service,** R. Zoologist, London, (Ser. 4), **7,** 1903, (69-70).

——— ——— abnormer Form. **Thienemann,** J. Ornith. Monatsber., Berlin, **11,** 1903, (4-5).

——— *pilaris,* die Wachholderdrossel als Brutvogel auch in der Schweiz. **Winteler,** J. Ornithol. Beob., Bern, **2,** 1903, (149, 193-194).

——— *pocasis* n. sp. Fernando Po. **Alexander,** B. London, Bull. Brit. Ornith. Cl., **13,** 1903, (37); Ibis, London, **1903,** (381-382).

——— *torquatus,* nid. **Besnard.** Mans (le), Bul. soc. agricult. sci., (sér. 2, **30**), **38,** 1901-1902, (144-147).

——— *viscivorus,* strange nesting-place. **Whitaker,** J. Zoologist, London, (Ser. 4), **7,** 1903, (226).

Turdus viscivorus, strange nesting-place. **Pentland,** G. H. *l.c.* (312).

——— *whitei* in Halifax. **Crabtree,** A. Halifax Nat., **7,** 1903, (101-103, cum. fig.).

Sylviidae.

Acanthiza pallida n. sp. Western Australia. **Milligan,** A. Wm. Emu, Melbourne, **3,** 1903, (111-112).

——— *robustirostris* Milligan, *A. tenuirostris* Zietz, *A. uropygialis* Gould, nests and nestlings. **Milligan,** A. Wm. *l.c.* (102-104).

——— *magnerostris* n. sp. **Campbell,** A. J. *l.c.* **2,** (202-203).

——— *robustirostris* n. sp. W. Australia. **Milligan,** A. Wm. *l.c.* **3,** 1903, (71-72).

Acrocephalus aquaticus, a new Irish bird. **Barrington,** R. M. Irish Nat., Dublin, **12,** 1902, (300).

——— *eclebensis* n. sp. **Heinroth,** O. J. Ornith., Leipzig, **1903** (125).

——— *palustris* nesting in Sussex. **Field,** W. London, Bull. Brit. Ornith. Cl., **14,** 1903, (23).

——— *phragmitis,* note. **Ellison,** C. Zoologist, London, (Ser. 4), **7,** 1903, (189).

——— *turdoides* (great reed-warbler) occurring for first time in Sussex. **Nicoll,** M. J. London, Bull. Brit. Ornith. Cl., **14,** 1903, (18).

Apalis lopezi n. sp. Fernando Po. **Alexander,** B. London, Bull. Brit. Ornith. Cl., **13,** 1903, (35); Ibis, London, **1903,** (373, pl. IX, fig. 1).

Camaroptera granti n. sp. Fernando Po. **Alexander,** B. London, Bull. Brit. Ornith. Cl., **13,** 1903, (36); Ibis, London, **1903,** (369).

Cisticola cisticola: mauritanica n. subsp. Algeria. **Whitaker,** J. I. S. London, Bull. Brit. Ornith. Cl., **14,** 1903, (19-20).

Dendroica aestiva brewsteri n. nom. **Grinnell,** J. Condor, Santa Clara, Cal., **5,** 1903, (71-73).

Euprinodes sclateri n. sp. Fernando Po. **Alexander,** B. London, Bull. Brit. Ornith. Cl., **13,** 1903, (36).

Helinaia swainsonii, nest and eggs. Georgia **Cleckley**, M. T. Auk, Cambridge, Mass., (N. Ser.), **20**, 1903, (438–439).

Hylia poensis n. sp. Fernando Po. **Alexander**, B. London, Bull. Brit. Ornith. Cl., **13**, 1903, (36).

Locustella naevia in the Isle of Man. **Graves**, F. S. Zoologist, London, (Ser. 4), **7**, 1903, (313).

Lusciniola neglecta, nest from S. W. Persia. **Witherby**, H. F. London, Bull. Brit. Ornith. Cl., **13**, 1903, (62).

Malurus cyaneus, *M. gouldi* in Tasmania, note. **Littler**, F. M. Emu, Melbourne, **3**, 1903, (27–30).

——— *dorsalis*, eggs. **Le Souëf**, D. *l.c.* (145–146).

Phlexis lopezi n. sp. Fernando Po. **Alexander**, B. London, Bull. Brit. Ornith. Cl., **13**, 1903, (48).

Phylloscopus bonelli. **Burg**, G. von. München, Jahresber. ornith. Ver., **3**, (1901, 1902), 1903, (73–80).

——— *borealis*. Russian Lapland. **Pearson**, H. J. London, Bull. Brit. Ornith. Cl., **14**, 1903, (22).

——— *rufus silvestris* Meissner. **Berge**, R. Ornith. Monatschr., Gera, **28**, 1903, (429–430).

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Flöricke, C. Gefied. Welt, Magdeburg, **32**, 1903, (59–60).

——— *viridanus* Blyth. Orkney. **Clarke**, W. E. Ann. Scot. Nat. Hist., Edinburgh, **1903**, (22–26).

Poliolais n. gen., *P. helenorae* n. sp. Fernando Po. **Alexander**, B. London, Bull. Brit. Ornith. Cl., **13**, 1903, (36); Ibis, London, **1903**, (368–369).

Sericornis pusilla n. sp. Papua. **Rothschild**, *Hon.* W. and **Hartert**, E. Nov. Zool., Tring, **10**, 1903, (228).

Spiloptila malopensis n. sp. Mashonaland. **Sharpe**, R. B. London, Bull. Brit. Ornith. Cl., **13**, 1903, (80).

Stiphrornis xanthogaster n. sp. Camaroons. **Sharpe**, R. B. *l.c.* **14**, 1903, (19).

Sylvia cinerea. Messager Suisse Rom., Fribourg, **15**, 1902, (194–195, av. 1 pl.).

——— *curruca* in Cardiganshire. **Salter**, J. H. Zoologist, London, (Ser. 4), **7**, 1903, (226–227).

Sylvia orpheus Temm. occurring in Sussex. **Butterfield**, W. R. London. Bull. Brit. Ornith. Cl., **14**, 1903, (16–17).

——— *undata* in Shropshire. **Forrest**, H. E. Zoologist, London, (Ser. 4), **7**, 1903, (349–350).

——— ——— Northern breeding range. **Jourdain**, F. C. R. *l.c.* (123–125).

Urolais n. gen., *U. mariae* n. sp. Fernando Po. **Alexander**, B. London, Bull. Brit. Ornith. Cl., **13**, 1903, (35); Ibis, London, **1903**, (374–375).

Wilsonia pusilla in California. **Grinnell**, J. Condor, Santa Clara, Cal., **5**, 1903, (80–81).

Regulidae.

Regulus ignicapillus in Lancashire. **Collins**, J. Zoologist, London, (Ser. 4), **7**, 1903, (455).

——— *regulus*. **Schuster**, W. Ornith. Monatschr., Gera, **28**, 1903, (345).

Cinclidae.

Cinclus nn. spp. **Madarász**, J. Budapest, Ann. Hist. Nat. Mus. Nat. Hung., **1**, 1903, (559–560).

——— *aquaticus*, nesting in a tree. **Tait**, T. Ann. Scot. Nat. Hist., Edinburgh, **1903**, (185).

——— *olympicus* n. sp. Cyprus. **Madarász**, J. von. Ornith. Monatsber., Berlin, **11**, 1903, (5–6).

——— *siemsseni* n. sp. Südost-China. **Martens**, G. H. Ornith. Monatsber, Berlin, **11**, 1903, (186–187).

Troglodytidae.

Anorthura cypriotes n. sp. Cyprus. **Bate**, D. M. A. London, Bull. Brit. Ornith. Cl., **13**, 1903, (51–52).

Catherpes polioptilus n. subsp. **Oberholser**, H. C. Auk, Cambridge, Mass., (N. Ser.), **20**, 1903, (196–198).

Cistothorus palustris plesius in California. **Grinnell**, J. Condor, Santa Clara, Cal., **5**, 1903, (133–134).

——— *polyglottus: lucidus* n. subsp. **Ridgway**, R. Washington, D.C., Proc. Biol. Soc., **16**, 1903, (169).

Heleodytes nelsoni n. sp. S. Mexico. **Ridgway**, R. *l.c.* (111).

Henicorhina nn. subspp. Ecuador, Colombia, Mexico. **Ridgway**, R. *l.c.* (168–169).

——— *collina* n. sp. Panama. **Bangs**, O. Cambridge, Mass., Proc. New Engl. Zool. Cl., **3**, 1902, (55–56).

——— *inornata* n. sp. **Hellmayr**, C. J. Ornith., Leipzig, **51**, 1903, (527–539).

——— *leucophrys: festiva* n. subsp. **Nelson**, E. W. Washington, D.C., Proc. Biol. Soc., **16**, 1903, (158).

Microcerculus aconetus n. sp. Panama. **Bangs**, O. Cambridge, Mass., Proc. New Engl. Zool. Cl., **3**, 1902, (15–70).

——— *corrasus* n. sp. Colombia. **Bangs**, O. *l.c.* (81–90).

Mimus polyglottos. **Daniels**, J. W., *jun.* Oberlin, Ohio, Bull. Agassiz Ass. Wilson Ornith. Ch., (N. Ser.), **9**, 1902, (68–71).

Phrygothorus ludovicianus Massachusetts. **Durfee**, O. Auk, Cambridge, Mass., (N. Ser.), **20**, 1903, (69).

Salpinctes nn. subspp. Guatemala, Mexico. **Ridgway**, R. Washington, D.C., Proc. Biol. Soc., **16**, 1903, (168–169).

Telmatodytes palustris: iliacus n. subsp. Indiana. **Ridgway**, R. *l.c.* (110).

——— ——— *thryophilus* n. subsp. Louisiana, Texas. **Oberholser**, H. C. *l.c.* (149–150).

Thryophilus nn. subspp. Nicaragua, Chiapas, Ecuador. **Ridgway**, R. *l.c.* (167–168).

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Troglodytes brunneicollis: nitidus n. subsp. **Nelson**, E. W. Washington, D.C., Proc. Biol. Soc., **16**, 1903, (151–160).

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Urochichla cryptata n. sp. Mekong valley. **Bingham**, C. T. London, Bull. Brit. Ornith. Cl., **13**, 1903, (55–56).

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Hirundinidae.

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Myopelidion n. gen., type, *M. fuscata* Temminck. **Ridgway**, R. Washington, D.C., Proc. Biol. Soc., **16**, 1903, (106).

Chelidon urbica, late appearance at Eastbourne. **Bannerman**, D. A. Zoologist, London, (Ser. 4), **7**, 1903, (455–456).

——— ——— arrival in March. **Riviere**, B. B. *l.c.* (152).

Chelidonaria urbica, Beobachtungen. **Besserer**, L. *Freiherr* von. München, Jahresber. ornith. Ver., **3**, (1901–1902), 1903, (294–346).

Diplochelidon n. gen., type *Hirundo melanoleuca* Maximilian. **Ridgway**, R. Washington, D.C., Proc. Biol. Soc., **16**, 1903, (106).

Hirundo, instinct. **Chateau**, E. Autun, Bul. soc. sci. nat., **15**, 1902, (Proc.-verb., 219-220).

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——— *riparia*, Verbreitung im südlichen Bayern. **Ries**, A. München, Jahresber. ornith. Ver., **3**, (1901, 1902), 903, (82-84).

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Orochelidon n. gen., type *O. murina* Cassin. **Ridgway**, R. *l.c.* (106).

Petrochelidon ariel, eggs. **Le Souëf**, D. Emu, Melbourne, **2**, 1903, (148).

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Progne purpurea, mortality at Brattleboro. **Horton**, F. B. Auk, Cambridge, Mass., (N. Ser.), **20**, 1903, (435-436).

Psalidoprocne poensis n. sp. Fernando Po. **Alexander**, B. London, Bull. Brit. Ornith. Cl., **13**, 1903, (34).

Riparia riparia, habits. **Torrey**, B. Auk, Cambridge, Mass., (N. Ser.), **20**, 1903, (436-437).

Stelgidopteryx salvini n. sp. Guatemala. **Ridgway**, R. Washington, D.C. Proc. Biol. Soc., **15**, 1903, (107).

Tachycineta thalassina: brachyptera n. subsp. California. **Brewster**, W. Cambridge, Mass., Bull. Mus. Comp. Zool. Harvard Coll., **41**, 1902, (1-241).

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Campephaga compta n. sp. Sumatra. **Richmond**, C. W. Washington, D.C., Smithsonian Inst., Nation. Mus. Proc., **26**, 1903, (485-524).

Edoliisoma nn. subspp. Papua. **Rothschild**, Hon. W. & **Hartert**, E. Nov. Zool., Tring, **10**, 1903, (206-209).

Graucalus nn. spp. Sumatra. **Richmond**, C. W. Washington, D.C., Smithsonian Inst., Nation. Mus. Proc. **26**, 1903, (485-524).

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——— *parvirostris* in Tasmania, note. **Littler**, F. M. *l.c.* **3**, 1903, (24-26).

——— *temminecki: tonkeanus* n. subsp. Celebes. **Meijer**, A. B. Leiden, Notes Mus. Jentink, **23**, 1903, (185-189).

Lalage leucomelaena, eggs. **Le Souëf**, D. Emu, Melbourne, **2**, 1903, (143).

Dicruridae.

Dicrurus afer in Fernando Po. **Alexander**, B. Ibis, London, **1903**, (359).

——— *mecki* n. sp. Papua. **Rothschild**, *Hon.* W. and **Hartert**, E. Nov. Zool., Tring, **10**, 1903, (110).

Ampelidae.

Ampelis cedrorum, habits. Amer. Ornith., Worcester, Mass., **3**, 1903, (122-131).

——— *garrulus*, near Ramsgate. **Grant**, W. R. O. London, Bull. Brit. Ornith. Cl., **14**, 1903, (31).

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——— ——— **Rickett**, C. B. Ibis, London, **1903**, (216).

——— ——— in Co. Antrim. **Wright**, W. C. Zoologist, London, (Ser. 4), **7**, 1903, (456).

Bombycilla garrula. **Gengler**, J. Gefied. Welt, Magdeburg, **32**, 1903, (62-63).

Phainopepla. **Gilman**, M. F. Condor, Santa Clara, Cal., **5**, 1903, (42-43).

Artamidae.

Artamus, notes on the Papuan species. **Rothschild,** W. and **Hartert,** E. Nov. Zool. Tring, **10,** 1903, (112).

——— *leucogaster*, *A. melanops*, *A. minor*, eggs. **Le Souëf,** D. Emu, Melbourne, **2,** 1903, (148–149).

Laniidae.

Bradyterus, Afrika. **Naumann,** O. Ornith. Monatsber., Berlin, **11,** 1903, (87–91).

Collyriocincla rectirostris, in Tasmania, note. **Littler,** F. M. Emu, Melbourne, **3,** 1903, (23–24).

Cracticus cinereus, in Tasmania, note. **Littler,** F. M. *l.c.* (85–86).

Dryoscopus poensis n. sp. Fernando Po. **Alexander,** B. London, Bull. Brit. Ornith. Cl., **13,** 1903, (37).

Gymnorhina dorsalis Campbell and *G. leuconota*, *G. longirostris* n. sp. and *G. tibicen* Latham. **Milligan,** A. Wm. Emu, Melbourne, **3,** 1903, (96–102).

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Lanius. Phylogenie. **Schiebel,** C. (Vorl. Mitt.). Ornith. Monatsber. Berlin, **11,** 1903, (105–112).

——— *excubitor*, great grey shrike in Kincardineshire. **Milne,** J. Ann. Scot Nat. Hist., Edinburgh, **1903,** (185–211).

——— ——— in West Suffolk. **Tuck,** J. G. Zoologist, London, (Ser. 4), **7,** 1903, (151–152).

——— *ludovicianus*, habits. **Hess,** L. E. Amer. Ornith., Worcester, Mass., **3,** 1903, (147–150, with fig in text).

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Malaconotus. Afrika. **Neumann,** O. Ornith. Monatsber., Berlin, **11,** 1903, (87–91).

Pachycephala falcata, eggs. **Le Souëf,** D. Emu, Melbourne, **2,** 1903, (146).

——— *gutturalis*. **Seth-Smith,** D. Avicult. Mag., Brighton, (Ser. 2), **2,** 1903, (61–63, cum tab.).

——— *johni* n. sp. Central Moluccas. **Hartert,** E. Nov. Zool., Tring, **10,** 1903, (12).

——— *moroka* n. sp. Papua. **Rothschild,** *Hon.* W. and **Hartert,** E. *l.c.* (106–107).

Pinarolestes megarhyncha nn. subspp. Papua. **Rothschild,** *Hon.* W. and **Hartert,** E. *l.c.* (100–101).

Pitohui nn. spp Papua. **Rothschild,** *Hon.* W. and **Hartert,** E. *l.c.* (95–96).

Vireonidae

Pachysylvia Bonaparte = *Hylophilus* Temminck not *Hylophila* Hübner. **Oberholser,** H. C. Washington, D.C., Proc. Biol. Soc., **16,** 1903, (101–102).

——— *ochraceiceps : pallidipectus* n. subsp. Costa Rica. **Ridgway,** R. *l.c.* (108).

Vireo, habits. **Bohlman,** H. T. Condor, Santa Clara, Cal., **5,** 1903, (61–64, with pl.).

——— instinct. **Dugmore,** A. R. Country life in America, New York, N.Y., **3,** 1903, (240, with text fig.).

——— nn. subspp. Guatemala and Arizona. **Ridgway,** R. Washington, D.C., Proc. Biol. Soc., **16,** 1903, (107–108).

——— *bellii*. Colorado. **Smith,** H. G. Auk, Cambridge, Mass., (N. Ser.), **20,** 1903, (138).

——— ——— *medius* n. subsp. Texas. **Oberholser,** H. C. Washington, D.C., Proc. Biol. Soc. **16,** 1903, (17–18).

——— *flavifrons*. **Jacobs,** J. W. Oberlin, Ohio, Wilson Bull. (Ornith.), (N. Ser.), **10,** 1903, (17–20).

——— *mailliardorum* n. sp. Santa Cruz. **Grinnell,** J. Condor, Santa Clara, Cal., **5,** 1903, (157).

——— *philadelphicus*, habits. **Brewster,** W. Auk, Cambridge, Mass., (N. Ser.), **20,** 1903, (369–376, with pl.).

——— *solitarius*, voice. **Brewster,** W. *l.c.* (137–138).

Vireolanius melitophrys : goldmani n. subsp. **Nelson,** E. W. Washington, D.C., Proc. Biol. Soc., **16,** 1903, (151–160).

——— *pulchellus : viridiceps* n. subsp. Panama. **Ridgway,** R. *l.c.* (108).

Vireosylva nn. subspp. Mexico and Costa Rica. **Ridgway,** R. *l.c.* (107).

——— *josephae : chiriquensis* n. subsp. Chiriqui. **Banga,** O. Cambridge, Mass., Proc. New Engl. Zool. Cl., **4,** 1903, (9–10).

Sittidae.

General.

Hellmayr, C. E. *Paridae, Sittidae* und *Certhiidae.* [Das Tierreich, hrsg. v. F. E. Schulze, Lfg 18.] Berlin (R. Friedländer & S.), 1903, (XXXI + 168). 26 cm. 12,60 M.

Keyser, L. S. The nuthatch family Sittinae. Amer. Ornith., Worcester, Mass., **3,** 1903, (46–50, with figs. in text).

Special.

Sitta caesia. **Noel,** P. Naturaliste, Paris, (sér. 2), **25,** 1903, (11).

——— *europaea : persica* n. subsp. S.W. Persia. **Witherby,** H. F. Ibis, London, **1903,** (531–532).

Hypositidae.

Hypositta, relationships, (*Hypositta* n. fam.). **Ridgway,** R. Washington, D.C., Proc. Biol. Soc., **16,** 1903, (125).

Paridae.

General.

Anzinger, F. Unsere Meisen. In einer übersichtlichen Darstellung. Gefied. Welt, Magdeburg, **32,** 1903, (265–266, 274–275, 281–282, 289–290, 297–298, 305–306, 313–314, 321–322, 329–330).

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Hellmayr, [C. E.] *Paridae, Sittidae* und *Certhiidae.* [Das Tierreich, hrsg. v. F. E. Schulze. Lfg 18.] Berlin (R. Friedländer & S.), 1903, (XXXI + 168). 26 cm. 12,60 M.

Henriot, E. Les mésanges ou Paridés. Globe illustré, illustr. europ., Bruxelles, **1902,** (262–263).

Special.

Aegithalus, die russischen Arten. (Russ.) **Bianchi,** V. L. Priroda i ochota, Moskva, **1902,** III, (49–51).

——— *caudata.* (Subspecies). von B[urg], G[ustav.]. Ornithol. Beob., Bern, **2,** 1903, (201–202).

——— ——— nesting habits. **Steele Elliott,** J. Zoologist, London, (Ser. 4), **7,** 1903, (350).

——— *rosea : taurica* n. subsp. Crimaea. **Menzbier,** M. London, Bull. Brit. Ornith. Cl., **13,** 1903, (19).

Aegithaliscus talifucusis n. sp. S.W. China. **Rippon,** G. *l.c.* **14,** 1903, (18).

Anthoscopus minutus. **Sharpe,** R. B. *l.c.* **13,** 1903, (59–60).

Bacolophus inornatus nn. subspp. California. **Ridgway,** R. Washington, D.C., Proc. Biol. Soc., **16,** 1903, (109).

Certhiparus, note on the genus. **Hutton,** F. W. Ibis, London, **1903,** (318–319).

Lophophanes vs. *Bacolophus.* **Ridgway,** R. Auk, Cambridge, Mass., (N. Ser.), **20,** 1903, (308).

Parus carolinensis. **Dawson,** W. L. Oberlin, Ohio, Wilson Bull. (Ornith). (N. Ser.), **10,** 1903, (38).

——— ——— *impiger* n. subsp. Florida. **Bangs,** O. Cambridge, Mass., Proc. New. Engl. Zool. Cl., **4,** 1903, (1–2).

——— *corsus* n. sp. **Kleinschmidt,** O. Ornith. Monatsber., Berlin, **11,** 1903, (6–7).

——— *cristatus,* crested tit in Lower Strathspey. **Kinnear,** N. B. Ann. Scot. Nat. Hist., Edinburgh, **1903,** (18–19).

——— *inornatus ridgwayi* n. nom. = *Parus inornatus griseus* Ridgway not *P. griseus* Müller. **Richmond,** C. W.

Washington, D.C., Proc. Biol. Soc., **15**, 1902, (155).

——— *major*. **Buxbaum**, L. Ornith. Monatschr., Gera, **28**, 1903, (203–205).

——— ——— Noch einmal die „Eigentümlich geoffneten Walnüsse". **Dahms**, P. Natur u. Haus, Dresden, **11**, 1903, (140–141).

——— ——— et *P. coeruleus*, Nützlichkeit. **Jablonowski**, J. Term. Közl., Budapest, **35**, 1903, (517–520).

——— *moltchanovi* n. sp. Crimaea. **Menzbier**, M. London, Bull. Brit. Ornith. Cl., **13**, 1903, (49).

——— *sardus*, form. nov. **Kleinschmidt**, O. Ornith. Monatsber., Berlin, **11**, 1903, (186).

Psaltriparus, synopsis of the genus. **Oberholser**, H. C. Auk, Cambridge, Mass., (N. Ser.), **20**, 1903, (198–201).

——— *minimus*, voice. **Grinnell** J. Condor, Santa Clara, Cal., **5**, 1903, (85–87).

——— ——— *saturatus* n. subsp. British Columbia. **Ridgway**, R. Washington, D.C., Proc. Biol. Soc., **16**, 1903, (109).

Xerophila castaneicentris n. sp. W. Australia. **Milligan**, A. Wm. Emu, Melbourne, **3**, 1903, (70–71).

——— *castaneicentris* Milligan, nests and eggs. **Campbell**, A. J. Emu, **3**, 1903, (120).

Oriolidae.

Oriolus broderipi : oscillans n. subsp. Eastern Archipelago. **Hartert**, E. Nov. Zool., Tring, **10**, 1903, (32–33).

——— *percivali* n. sp. Equatorial Africa. **Grant**, W. R. O. London, Bull. Brit. Ornith. Cl., **14**, 1903, (18).

——— *mundus* n. sp. Sumatra. **Richmond**, C. W. Washington, D.C., Smithsonian Inst., Nation. Mus. Proc., **26**, 1903, (517).

Paradiseidae.

Epimachus nigricans. **Schleiff**, V. Natur u. Haus, Dresden, **11**, 1903 (309–310).

Janthothorax mirabilis (Rchw.). **Rothschild**, *Hon.* W. London, Bull. Brit. Ornith. Cl., **13**, 1903, (31–32).

Manucodia ater : altera n. subsp. Papua. **Rothschild**, *Hon.* W. and **Hartert**, E. Nov. Zool., Tring, **10**, 1903, (84–85).

Paradisea mirabilis Rchw. **Finsch**, O. Ornith. Monatsber., Berlin, **11**, 1903, (167).

Corvidae.

GENERAL.

Le choucas. Naturaliste, Paris, (sér. 2), **25**, 1903, (120).

de Contresas, X. Le bruant zi et le bruant fou. Chasse et pêche, Bruxelles, **1902**, (808).

Raspail, Xavier. Protection des semailles contre les corbeaux. Paris, Bul. soc. nat. acclim., **50**, 1903, (169–170).

Stone, W. Notes on winter crow life in the Delaware valley. Auk, Cambridge, Mass., (N. Ser.), **20**, 1903, (267–271).

Sylvain. La pie commune. Eleveur, Paris, **19**, 1903, (221–223, av. fig.).

Tournier, G. La pie fait-elle plusieurs nids? Naturaliste, Paris, (sér. 2), **25**, 1903, (116).

Van Kempen, Ch. Invasion de casse-noix dans le nord de la France. Ornis, Paris, **11**, 1900–1901, [1902] (446–447).

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Aphelocoma guerrerensis n. sp. **Nelson**, E. W. Washington, D.C., Proc. Biol. Soc., **16**, 1903, (151–160).

——— *texana* in Texas. **Lacey**, H. Condor, Santa Clara, Cal., **5**, 1903, (151–153).

——— *unicolor : coelestis* n. subsp. Guatemala. **Ridgway**, R. Washington, D.C., Proc. Biol. Soc., **16**, 1903, (108).

Cissa katsumatae n. sp. Hainan. **Rothschild**, *Hon.* W. London, Bull. Brit. Ornith. Cl., **14**, 1903, (9).

Corvus, color. in Amer. Ornith., Worcester, Mass., **3**, 1903, (8–10, with fig. in text).

Corvus, a filaria in. **Elliott**, J. H. Wood's Holl, Mass., Mar. Biol. Lab. Bull., **4**, 1903, (61–65).

——— nn. spp. Sardinien. **Kleinschmidt**, O. Ornith. Monatsber., Berlin, **11**, 1903, (92).

——— *americanus*. **Eaton**, E. H. Auk, Cambridge, Mass., (N. Ser.), **20**, 1903, (57–59, with pl.).

——— *brachyrhynchos* C. L. Brehm = *C. americanus* Audubon. **Richmond**, C. W. Washington, D.C., Proc. Biol. Soc., **16**, 1903, (125).

——— *compilator* n. nom. *C. tenuirostris* Moore, not C. S. Brehm. **Richmond**, C. W. Washington, D.C., Smithsonian Inst., Nation. Mus. Proc., **26**, 1903, (485–524).

——— *corax*. Beobachtungen über eine besondere Geistesthätigkeit und die Wahl dess Nistplatzes. **Botezat**, E. Zool. Jahrb., Jena, Abt. f. Syst., **18**, 1903, (727–750).

——— ——— **Hayessen**, F. Ornith. Monatschr., Gera, **28**, 1903, (376–378).

——— ——— nesting in Co. Antrim. **Wright**, W. E. Zoologist, London, (Ser. 4), **7**, 1903, (191–192).

——— ——— **Schuster**, L. Ornith. Monatschr., Gera, **28**, 1903, (319).

——— *cornix*, faunistisch. **Méhely**, L. Állatt. Közlem., Budapest, **2**, 1903, (35).

——— ——— Verbreitung und Alter. **Thienemann**, J. Ornith. Monatsber., Berlin, **11**, 1903, (157).

——— ——— *C. corone*, Nützlichkeit. **Loos**, C. Ornith. Monatschr., Gera, **28**, 1903, (76–77).

——— ——— × *C. corone*. **Thienemann**, J. Ornith. Monatsber., Berlin, **11**, 1903, (71).

——— ——— **Thienemann**, J. *l.c.* (188–189).

——— ——— nesting in Suffolk. **Butler**, E. A. Zoologist, London, (Ser. 4), **7**, 1903, (350).

——— ——— **Rörig**, G. Ornith. Monatschr., Gera, **28**, 1903, (470–477).

——— *corone* in the Irish Channel. **Patten**, C. J. Zoologist, London, (Ser. 4), **7**, 1903, (192).

Corvus corone in the Irish Channel. **Patten**, C. J. Irish Nat., Dublin, **12**, 1903, (139).

——— *coronoides* Vigors & Horsfield, note. **Hall**, R. Emu, Melbourne, **3**, 1903, (12).

——— *cryptolcucus*. **Bailey**, V. Condor, Santa Clara, Cal., **5**, 1903, (87–89).

——— *frugilegus: tschusii* n. subsp. **Hartert**, E. Die Vögel der paläarktischen Fauna, (14).

——— ——— im Winterquartier. **Sprenger**, C. Natur u. Haus, Dresden, **11**, 1903, (123–126).

——— *insularis* n. sp. **Heinroth**, O. J. Ornith., Leipzig, **1903**, (69–71).

Cyanocitta, habits. **Chapman**, F. M. The Century Magazine, New York, N.Y., **64**, 1902, (N. Ser. **42**), (405–412, with fig. in text).

Cyanocorax cyanopogon. **Butler**, A. G. Aviculr. Mag., Brighton, (Ser. 2), **1**, 1903, (227–230).

Cyanolyca mirabilis n. sp. **Nelson**, E. W. Washington, D.C., Proc. Biol. Soc., **16**, 1903, (151–160).

Cyanopica cyanus: swinhoei n. subsp. **Hartert**, E. Die Vögel der paläarktischen Fauna, (24).

Garrulus glandarius, migration. **Aplin**, O. V. Zoologist, London, (Ser. 4), **7**, 1903, (28).

——— ——— nn. subspp. **Hartert**, E. Die Vögel der paläarktischen Fauna, (30–33).

——— ——— **Landois**, H. Münster, Jahresber. ProvVer. Wiss., **31**, (1902–03), 1903, (185–186).

——— ——— **Mienhards**, O. Gefied. Welt, Magdeburg, **32**, 1903, (266–268).

——— ——— migration. **Morris**, R. Zoologist, London, (Ser. 4), **7**, 1903, (27–28).

——— *ichnusae* n. form. Sardinien. **Kleinschmidt**, O. Ornith. Monatsber., Berlin, **11**, 1903, (92).

Nucifraga caryocatactes L. im solothurnischen Jura. **Von Burg**, Gustav. Aarau (Sauerländer), 1902, (II + 21).

——— ——— *rothschildi* n. subsp. **Hartert**, E. Die Vögel der palaarktischen Fauna, (27).

Trypanocorax frugilegus roosting habits. **Crump**, W. B. Halifax Nat., **8**, 1903, (5–8, 37–38).

——— ——— migration. **Rothschild**, W. and **Hartert**, E. Nov. Zool., Tring, **10**, 1903, (122–123).

Drepanidae.

Loxioides bailleui. **Bryan**, W. A. Condor, Santa Clara, Cal., **5**, 1903, (80).

Oreomystis n. nom. = *Oreomyza* Stejn. **Stejneger**, L. Washington, D.C., Proc. Biol. Soc., **16**, 1903, (11–12).

Sturnidae.

Amydrus evcaghi n. sp. **Grant**, W. R. O. and **Forbes**, H. O. Aves in: The natural History of Sokotra and Abd-el-Kuri, (58).

——— *gracilirostris* n. sp. Afrika. **Neumann**, O. Ornith. Monatsber., Berlin, **11**, 1903, (180–185).

Goodfellowia n. gen., *G. miranda* n. sp. Philippine Islands. **Hartert**, E. London, Bull. Brit. Ornith. Cl., **14**, 1903, (11–12).

Lamprocolius chalybi n. sp. Fernando Po. **Alexander**, B. London, Bull. Brit. Ornith. Cl., **13**, 1903, (48); Ibis, London, **1903**, (357–358).

Onychorhynchus mexicanus: *frater-culus* n. subsp. Columbia. **Bangs**, O. Cambridge, Mass., Proc. New Engl. Zool. Cl., **3**, 1902, (81–90).

Sturnus vulgaris, Zug, mit besonderer Berücksichtigung der Gätke'schen Ansicht über Zug der Vögel nach Alter und Geschlecht. **Helm**, F. J. Ornith., Leipzig, **51**, 1903, (259–270).

——— ——— *granti* n. subsp. **Hartert**, E. Die Vögel der palaarktischen Fauna, (43).

Meliphagidae.

Acanthochaera inauris in Tasmania, notes. **Littler**, F. M. Emu, Melbourne, **3**, 1903, (88–89).

Eafa n. gen., *E. maculata* n. sp. Papua. **Rothschild**, *Hon.* W. and **Hartert**, E. Nov. Zool., Tring, **10**, 1903, (448).

Entomophila leucomelas, eggs. **Le Souëf**, D. Emu, Melbourne, **2**, 1903, (147).

Glycyphila fasciata, *G. ocularis*, eggs. **Le Souëf**, D. *l.c.* (146–147).

Melitheretus leucogenys n. sp. W. Australia. **Milligan**, A. W. *l.c.* (160–161).

Myzomela batjanensis n. sp. Eastern Archipelago. **Hartert**, E. Nov. Zool., Tring, **10**, 1903, (56).

——— *eques*: *aymani* n. subsp. Papua. **Rothschild**, *Hon.* W. and **Hartert**, E. *l.c.* (223).

——— *kuchni* n. sp. Malay Peninsula. **Rothschild**, *Hon.* W. London, Bull. Brit. Ornith. Cl., **13**, 1903, (42–43).

Philemon buceroides, *P. citreogularis*: *sordidus*, eggs. **Le Souëf**, D. Emu, Melbourne, **2**, 1903, (148).

Ptilotis auricomis and allies. **Campbell**, A. J. Aviculr. Mag., Brighton, (Ser. 2), **1**, 1903, (347–353).

——— *finschi* n. sp. and nn. subspp. Papua. **Rothschild**, *Hon.* W. and **Hartert**, E. Nov. Zool., Tring, **10**, 1903, (442–445, 446, 448).

——— *flavigularis* in Tasmania, notes. **Littler**, F. M. Emu, Melbourne, **3**, 1903, (81–89).

——— *keartlandi*, *P. notata*, eggs. **Le Souëf**, D. *l.c.* **2**, 1903, (147).

——— *leucotis* Lath., plumage phases. **Hall**, R. *l.c.* **3**, 1903, (43–45).

Zosteropidae.

Hypocryptadius n. gen., *H. cinnamomeus* n. sp. Philippines. **Hartert**, E. London, Bull. Brit. Ornith. Cl., **14**, 1903, (13).

Zosterops nn. spp. Philippines. **Hartert**, E. *l.c.* (13–14).

——— *flavissima* n. sp. Eastern Archipelago. **Hartert**, E. Nov. Zool., Tring, **10**, 1903, (29–30).

——— *gulliveri*, eggs. **Le Souëf**, D. Emu, Melbourne, **2**, 1903, (146).

——— *schoana* n. sp. Afrika. **Neumann**, O. Ornith. Monatsber., Berlin, **11**, 1903, (180–185).

——— *smithi* n. sp. Afrika. **Neumann**, O. *l.c.* (138–139).

Nectariniidae.

Chalcomitra boothi n. sp. Nyasa. **Reichenow**, [A.]. Ornith. Monatsber., Berlin, **10**, 1902, (8).

Cinnyris infrenata n. sp. Eastern Archipelago. **Hartert**, E. Nov. Zool., Tring, **10**, 1903, (29).

Cyanomitra nn. spp. Fernando Po. **Alexander**, B. London, Bull. Brit. Ornith. Cl., **13**, 1903, (38).

——— *ursulae* n. sp. Fernando Po. **Alexander**, B. Ibis, London, **1903**, (342, pl. IX, fig. 2).

Nectarinia barakae from Ruwenzori identical with *Cinnyris purpureiventer* Reich., to be called *N. purpureiventer* Reich. **Sharpe**, R. B. London, Bull. Brit. Ornith. Cl., **13**, 1903, (50).

——— *salvadorii* n. sp. Nyasaland. **Shelley**, G. E. *l.c.* (61).

Dicaeidae.

Dicaeum geelvinkianum : diversum n. subsp. Papua. **Rothschild**, *Hon.* W. and **Hartert**, L. Nov. Zool., Tring, **10**, 1903, (215).

——— *kühni* n. sp. Eastern Archipelago. **Hartert**, E. *l.c.* (28–29).

Certhiidae.

GENERAL.

Hellmayr, C. E. *Paridae, Sittidae* und *Certhiidae*. [Das Tierreich, hrsg. v. F. E. Schulze. Lfg. 18.] Berlin (F. Friedländer & S.), 1903, (XXXI + 168). 26 cm. 12,60 M.

SPECIAL.

Certhia familiaris, field notes. Cyprus. **Bate**, D. M. A. Ibis, London, **1903**, (577).

Mniotiltidae.

Certhidia, anatomy. **Snodgrass**, R. E. Auk, Cambridge, Mass., (N. Ser.), **20**, 1903, (402–417, with 3 pls.).

Dendroeca, spp. from Abaco, Bahamas. **Bonhote**, J. L. London, Bull. Brit. Ornith. Cl., **13**, 1903, (50–51).

Dendroeca auduboni, habits. **Sharp**, C. S. Condor, Santa Clara, Cal., **5**, 1903, (79).

——— *discolor*, habits. Amer. Ornith., Worcester, Mass., **3**, 1903, (62–70, with fig. in text).

——— *kirtlandi* in Michigan, breeding area. **Adams**, C. Science, New York, N.Y., (N. Ser.), **18**, 1903, (217).

——— ——— Ohio. **Jones**, L. Oberlin, Ohio, Bull. Agassiz Ass. Wilson Ornith. Ch., (N. Ser.), **9**, 1902, (104–105).

——— *tigrina* in Massachusetts. **McKechnie**, F. B. Auk, Cambridge, Mass., (N. Ser.), **20**, 1903, (218).

Geothlypis, spp. from Bahamas. **Bonhote**, J. L. London, Bull. Brit. Ornith. Cl., **13**, 1903, (51).

——— *agilis*. A doubt. **Stone**, W. Atl. Slope Nat., Narbeth, Pa., **1**, 1903, (54).

Helminthophila leucobronchialis in Ohio. **Jones**, L. Oberlin Ohio, Wilson Bull. (Ornith.), (N. Ser.), **10**, 1903, (68–69).

Seiurus motacilla in Minnesota. **Mearns**, L. di Z. Auk, Cambridge, Mass., (N. Ser.), **20**, 1903, (307–308).

Sylvia caerulea Wilson, note. **Allen**, J. A. *l.c.* (216–218).

Wilsonia mitrata, breeding ground. **Maxon**, W. R. Washington, D.C., Proc. Biol. Soc., **15**, 1902, (156).

Tanagridae.

Calospiza cyanocephala. **Berlepsch**, H. *Graf* von. Ornith. Monatsber., Berlin, **11**, 1903, (18–20).

Chlorophonia frontalis : pittacina n. subsp. Colombia. **Bangs**, O. Cambridge, Mass., Proc. New Engl. Zool. Cl., **3**, 1902, (81–90).

Chlorospingus novicius n. sp. Panama. **Bangs**, O. *l.c.* (15–70).

Cyanicterus venustus in Amazonia. **Sclater**, P. L. London, Bull. Brit. Ornith. Cl., **14**, 1903, (31).

Piranga ludoviciana, migration. **Emerson**, W. Otto. Condor, Santa Clara, Cal., **5**, 1903, (64–66).

Piranga ludoviciana, in Louisiana. **Head**, A. Amer. Ornith., Worcester, Mass., **3**, 1903, (10-14, with col. pls.).

Spindalis spp. from Bahamas. **Bonhote**, J. L. London, Bull. Brit. Ornith. Cl., **13**, 1903, (50).

Tanagra palmarum : melanoptera. **Clark**, A. H. Auk, Cambridge, Mass., (N. Ser.), **20**, 1903, (398-402).

Ploceidae.

Coccopygia bocagei n. sp. West Africa. **Shelley**, G. E. London, Bull. Brit. Ornith. Cl., **13**, 1903, (56).

——— *clarkei* n. sp. Africa. **Shelley**, G. E. *l.c.* (75).

Colinspasser delamerei n. sp. Africa. **Shelley**, G. E. *l.c.* (73-76).

Cryptospiza elizae n. sp. Fernando Po. **Alexander**, B. *l.c.* (38).

Estrilda nn. spp. Afrika. **Reichenow**, [A.]. Ornith. Monatsber., Berlin, **10**, 1902, (173, 184-185); **11**, 1903, (23-24).

——— nn. spp. Africa. **Shelley**, G. E. London, Bull. Brit. Ornith. Cl., **13**, 1903, (74-75).

——— *angolensis*. **Phillipps**, R. Avicult Mag., Brighton, (Ser. 2), **1**, 1903, (120-121, cum tab.).

——— *elizae* n. sp. Fernando Po. **Alexander**, B. London, Bull. Brit. Ornith. Cl., **13**, 1903, (54); Ibis, London, **1903**, (354).

Hypargus harterti n. sp. [= *nitidula* Hartl. 1880, nec Hartl. 1865]. **Shelley**, G. E. London, Bull. Brit. Ornith. Cl., **14**, 1903, (30).

Melanopteryx maxwelli n. sp. Fernando Po. **Alexander**, B. London, Bull. Bull. Brit. Ornith. Cl., **13**, 1903, (54); Ibis, London, **1903**, (355).

Neochmia phaeton, eggs. **Le Souëf**, D. Emu, Melbourne, **2**, 1903, (150).

Nesocharis n. gen., *N. shelleyi* n. sp. Fernando Po. **Alexander**, B. London, Bull. Brit. Ornith. Cl., **13**, 1903, (48); Ibis, London, **1903**, (352).

Poephila acuticauda, *P. mirabilis*, *P. personata*, eggs. **Le Souëf**, D. Emu, Melbourne, **2**, 1903, (149-150).

——— *gouldiae*, Leuchtorgane. **Chun**, C. Zool. Anz., Leipzig, **27**, 1903, (61-64).

Ploceus finschi n. sp. Afrika. **Reichenow**, [A.]. Ornith. Monatsber., Berlin, **11**, 1903, (23-24).

——— *megarhynchus*, the large billed weaver bird from N.W. India. **Harper**, E. W. London, Bull. Brit. Ornith. Cl., **14**, 1903, (23-24).

——— *orphnocephalus* n. sp. Afrika. **Erlanger**, C. Ornith. Monatsber., Berlin, **11**, 1903, (23).

Pyromelana taha : intercedens n. subsp. Afrika. **Erlanger**, C. *l.c.* (23).

Pytelia nn. spp. Africa. **Shelley**, G. E. London, Bull. Brit. Ornith. Cl., **13**, 1903, (76).

Spermestes nigriceps : minor n. subsp. Afrika. **Erlarger**, C. Ornith. Monatsber., Berlin, **11**, 1903, (22).

Sycobrotus pocusis n. sp. Fernando Po. **Alexander**, B. London, Bull. Brit. Ornith. Cl., **13**, 1903, (38).

Urobrachya phoenicea : quanzae n. subsp. West Afrika. **Hartert**, E. *l.c.* (56).

Icteridae.

General.

Polyhemus, E. Grackles. Amer. Ornith., Worcester, Mass., **3**, 1903, (3-5, with fig. in text).

Special.

Agelaius gubernator. **Daggett**, F. S. Condor, Santa Clara, Cal., **5**, 1903, (52).

Euphagus n. nom. = *Scolecophagus* Swainson not Geoffroy. **Richmond**, C. W. Washington, D.C., Proc. Biol. Soc., **16**, 1903, (128).

Icterus bullocki, nestbuilding. **Sharp**, C. S. Condor, Santa Clara, Cal., **5**, 1903, (38-42).

——— *spurius*, nest. **Shufeldt**, R. W. Oberlin, Ohio, Wilson Bull., (Ornith.) (N. Ser.) **10**, 1903, (45-49, with pl.).

Ostinops decumanus, nesting near Para. **Goeldi**, E. Ibis, London, **1903**, (630-632).

Scolecophagus carolinus. Amer. Ornith., Worcester, Mass., **3**, 1903, (1-3, with fig. in text).

Fringillidae.

Hathaway, H[arry] L. Second record of the Henslow's sparrow [*Ammodramus henslowi*] for R.I. Rhode Island, Ornith., Bristol, R.I., **2,** 1901, (11).

MacGillivray, W. L. Crossbills in Barra. Ann. Scot. Nat. Hist., Edinburgh, **1903,** (244).

Shelley, G. E. *Fringillidae* from Africa, notes. London, Bull. Brit. Ornith. Cl., **14,** 1903, (29–30).

Van Kempen, Ch. Note sur une invasion de becs-croisés dans le Nord. Ornis, Paris, **11,** 1900-1901, [1902], (460).

Special.

Acanthis nn. spp. et subsp. **Hartert,** E. Die Vögel der palaarktischen Fauna, (68–69, 77).

Alario leucolaema n. sp. Namaqua Land **Sharpe,** R. B. London, Bull. Brit. Ornith. Cl., **13,** 1903, (80).

Ammodramus savannarum: perpallidus nest. Amer. Ornith., Worcester, Mass., **3,** 1903, (14–19, 22, with fig. in text).

Astragalinus psaltria (Say): *hesperophilus* n. subsp. North America. **Oberholser,** H. C. Washington, D.C., Proc. Biol. Soc., **16,** 1903, (113–116).

Calamospiza melanocorys, spotted eggs. **Dille,** F. M. Condor, Santa Clara, Cal., **5,** 1903, (79).

Cardinalis cardinalis, parental relations. **Harvey,** G. F. Auk, Cambridge, Mass., (N. Ser.), **20,** 1903, (54–57, with pl.).

——— ——— *magnirostris* n. subsp. **Bangs,** O. Cambridge, Mass. Proc. New Engl. Zool. Cl., **4,** 1903, (5–7).

Carduelis carduelis. **Finn,** F. London, Proc. Zool. Soc., **1903,** 2, (3–4).

——— *elegans* in Britain. **Aplin,** O. V. Zoologist, London, (Ser. 4), **7,** 1903, (152, 190).

——— ——— in South Africa. **Butler,** E. A. *l.c.* (228–229).

——— ——— in South Africa. **Distant,** W. L. *l.c.* (432).

——— ——— status in Britain. **D'Urban,** W. S. M. *l.c.* (104–105).

Carduelis elegans from Ireland. **Finn,** F. London, Bull. Brit. Ornith. Cl., **13,** 1903, (79).

——— ——— status in Great Britain. **Forrest,** H. E. Zoologist, London, (Ser. 4), **7,** 1903, (70–72).

——— ——— status in Great Britain. **Harvie Brown,** J. A. *l.c.* (23–26).

——— ——— in Australia and Tasmania. **Le Souëf,** D. *l.c.* (191).

Catamenia alpica n. sp. Colombia. **Bangs,** O. Cambridge, Mass., Proc. New Engl. Zool. Cl., **3,** 1902, (81–90).

Chloris sinica: ussuriensis n. subsp. **Hartert,** E. Die Vögel der paläarktischen Fauna, (64).

Chrysomitris spinus breeding in Co. Wicklow. **Flemyng,** W. W. Zoologist, London, (Ser. 4), **7,** 1903, (156–157).

Coccothraustes vespertinus, breeding. **Fleming,** J. H. Auk, Cambridge, Mass., (N. Ser.), **20,** 1903, (213–215).

——— ——— *montanus.* Mexico. **Breninger,** G. F. *l.c.* (68–69).

——— *vulgaris,* hawfinch in North Dumfriesshire. **Bartholomew,** J. Ann. Scot. Nat. Hist., Edinburgh, **1903,** (181–185).

——— ——— Vorkommen im mittleren Lennetal. **Hennemann,** W. Münster, Jahresber. ProvVer. Wiss., **31,** (1902–03), 1903, (186–187).

——— ——— near Ipswich. **Tuck,** J. G. Zoologist, London, (Ser. 4), **7,** 1903, (104–105).

Cocornis, anatomy. **Snodgrass,** R. E. Auk, Cambridge, Mass., (N. Ser.), **20,** 1903, (402–417, with 3 pls.).

Crithagra imberbis Cab. **Reichenow,** [A.]. Ornith. Monatsber., Berlin, **11,** 1903, (167–168).

Emberiza cia, first occurrence in England. **Sharpe,** R. B. London, Bull. Brit. Ornith. Cl., **13,** 1903, (38).

——— *cirlus* in Flintshire. **Cummings,** S. G. Zoologist, London, (Ser. 4), **7,** 1903, (350).

——— *citrinella* und *E. leucocephala* und über Variation. **Kleinschmidt,** [O.]. J. Ornith., Leipzig, **51,** 1903, (145–148).

Emberiza citrinella Variationen in Farbe. **Natorp**, O. Ornith. Monatschr., Gera, **28**, 1903, (16).

——— *pusilla* in Durham. **Nelson**, T. H. Ibis, London, **1903**, (139).

Eophona melanura: migratoria n. subsp. **Hartert**, E. Die Vögel der palaarktischen Fauna, (59).

Erythrospiza githaginea: amantum n. subsp. **Hartert**, E. *l.c.* (89).

Fringilla coelebs, Winteraufenthalt. **Hoffmann**, E. Ornith. Monatsber., Berlin, **11**, 1903, (70–71).

——— *montifringilla*, die Invasion der Bergfinken in der Schweiz im Jahr 1901. **Fischer-Sigwart**, H. Ornithol. Beob., Bern, **1**, 1902, (221–222, 228–229).

——— *serinus*. **Buxbaum**, L. Zool. Garten, Frankfurt a. M., **44**, 1903, (13–14).

Geospiza, anatomy. **Snodgrass**, R. E. Auk, Cambridge, Mass., (N. Ser.), **20**, 1903, (402–417, with 3 pls.).

Habropyga coerulescens. **Hermann**, R. Natur u. Haus, Dresden, **12**, 1903, (5–6).

Junco hyemalis, song. **Mercer**, B. Amer. Ornith., Worcester, Mass., **3**, 1903, (143).

——— *oreganus: shufeldti*, parental relations. **Bohlman**, H. I. Condor, Santa Clara, Cal., **5**, 1903, (94–95, with pl.).

Leucosticte tephrocotis: littoralis. **Silloway**, P. M. Oberlin, Ohio. Wilson Bull. (Ornith.), (N. Ser.), **10**, 1903, ([1]–4).

Linota rufescens, habits. **Butterfield**, E. P. Zoologist, London, (Ser. 4), **7**, 1903, (72).

——— ——— habits. **Cummings**, S. G. *l.c.* (107).

——— ——— nesting habits. **Gyngell**, W. *l.c.* (107).

——— ——— nesting in Somerset. **Meyrick**, H. *l.c.* (459).

——— ——— in Cardiganshire. **Salter**, J. H. *l.c.* 106–107).

——— ——— nesting in Middlesex. **Read**, R. *l.c.* (26).

(N 3-9053)

Loxia bifasciata from Kent. **Ticehurst**, N. F. London, Bull. Brit. Ornith. Cl., **13**, 1903, (51).

——— *guillemardi* n. sp. Cyprus. **Madarász**, J. von. Ornith. Monatsber., Berlin, **11**, 1903, (5–6).

Melospiza coronatorum n. sp. Los Coronados islands. **Grinnell**, J. and **Daggett**, F. S. Auk, Cambridge, Mass., (N. Ser.), **20**, 1903, (27–37).

——— *lincolni* in Western New York. **Short**, S. H. Atl. Slope Nat., Narbeth, Pa., **1**, 1903, (52).

Passer domesticus, combat avec une sauterelle verte. **Borgogno**, C. Nantes, Bul. soc. sci. nat., (sér. 2, **3**), **13**, 1903, (111).

——— ——— sexual relations. **Clark**, J. H. Auk, Cambridge, Mass., (N. Ser.), **20**, 1903, (306–307).

——— ——— **Saxenberger.** Ornith. Monatschr., Gera, **28**, 1903, (250–252).

——— ——— **Wildhagen**, [H.]. Aus d. Heimat, Stuttgart, **16**, 1903, (67–68).

——— *montanus* in the Isle of Man. **Graves**, F. S. Zoologist, London, (Ser. 4), **7**, 1903, (313–314).

Passerculus sandwichensis . . . **Howe**, R. H., *jun.* Auk, Cambridge, Mass., (N. Ser.), **20**, 1903, (215–216).

Passerella. **Bolce**, H. Sci. Amer. Sup., New York, N.Y., **56**, 1903, (23347–23348).

——— *iliaca: megarhyncha*, removal of eggs. **Belding**, L. Condor, Santa Clara, Cal., **5**, 1903, (79).

Petronia dentata. **Butler**, A. G. Aviculr. Mag., Brighton, (Ser. 2), **1**, 1903, (204–208).

Pinaroloxias inornata (Gould), notes. **Richmond**, C. W. Washington, D.C., Proc. Biol. Soc., **15**, 1902, (247–248).

Pipilo aberti, habits. **Gilman**, M. F. Condor, Santa Clara, Cal., **5**, 1903, (12–13).

——— *erythrophthalmus*. New York. **Hendrickson**, W. F. Auk, Cambridge, Mass., (N. Ser.), **20**, 1903, (216).

Pyrrhospiza camerunensis n. sp. Fernando Po. **Alexander**, B. London, Bull. Brit. Ornith. Cl., **13**, 1903, (38).

Serinus canarius. **Zürn,** E. S. Der Kanarienvogel. Berlin (Ullstein u. Co.), [1903], (189, mit Taf.).

——— *madaraszi* n. sp. Afrika. **Reichenow,** [A.] Ornith. Monatsber., Berlin, **10,** 1902, (8); **11,** 1903, (40-41).

——— *shelleyi* n.sp. Afrika. **Neumann,** O. *l.c.* **11,** 1903, (180-185).

——— *simplex* n. sp. Afrika. **Reichenow,** [A.]. *l.c.* **10,** 1902, (173, 184-185); **11,** 1903, (23-24).

Spinus pinus, habits. **Bowles,** C. W. Condor, Santa Clara, Cal., **5,** 1903, (15).

——— ——— habits. **Bowles,** J. H. *l.c.* (20).

——— *psaltria,* late nesting. **Miller,** J. M. *l.c.* (19).

Spiza americana. Black-throated bunting. Amer. Ornith., Worcester, Mass., **3,** 1903, (136-137, with fig. in text).

——— ——— **Booker,** A. L. *l.c.* (140-141, with fig. in text).

UNCLASSIFIED BY THE SLIP MAKER.

Hydroictinia atra. Milan. **Dänt,** C. Ornith. Beob., Bern, **2,** 1903, (225-227).

Stictophera annulosa, eggs. **Le Souëf,** D. Emu, Melbourne, **2,** 1903, (149).

LIST OF NEW GENERA AND SPECIES.

ACANTHIS [Fringillidae].
——— *carduelis: africanus* n. subsp. Hartert. 490.
——— ——— *britannicus* n. subsp. Hartert. 490.
——— *flavirostris: stoliczkae* n. subsp. Hartert. 490.

ACANTHIZA [Sylviidae].
——— *magnirostris.* Campbell. 199.
——— *pallida.* Milligan. 798.
——— *robustirostris.* Milligan 795.

ACCIPITER [Accipitres].
——— *batesi.* Sharpe. 1075.

ACREDULA [Paridae].
——— *rosea: taurica* n. subsp. Menzbier. 774.

ACROCEPHALUS [Sylviidae].
——— *celebensis.* Heinroth. 510.

AEGITHALISCUS [Paridae].
——— *talifuensis.* Rippon. 977.

ALARIO [Fringillidae].
——— *leucolaema.* Sharpe. 1079.

ALAUDA [Alaudidae].
——— *cinerea.* Ehmcke. 326.
——— *flavescens.* Ehmcke. 326.
——— *subalpina.* Ehmcke. 326.

ALCIPPE [Timeliidae].
——— *stictigula.* Shelley. 1085.

ALCYONE [Coraciae].
——— *azurea: ochrogaster* n. subsp. Reichenow. 946.

ALETHE [Turdidae].
——— *mocri.* Alexander. 7, 12.

Alopochelidon n. gen. [Hirundinidae]. Ridgway. 967.

ALSEONAX [Muscicapidae].
——— *pocusia.* Alexander. 10.

AMMOMANES [Alaudidae].
——— *heterura.* Madarász. 743.

AMYDRUS [Sturnidae].
——— *erecghi.* Grant & Forbes. 439.
——— *gracilirostris.* Neumann. 828.

ANORTHURA [Troglodytidae].
——— *cypriotes.* Bate. 73.

APALIS [Sylviidae].
——— *lopezi.* Alexander. 7, 12.

APHELOCOMA [Corvidae].
——— *guerrerensis.* Nelson. 818.
——— *unicolor: coelestis* n. subsp. Ridgway. 967.

ARDEA [Herodiones].
——— *herodias: cognata* n. subsp. Bangs. 56.
——— ——— *fannini* n. subsp. Chapman. 213.

ASTRAGALINUS [Fringillidae].
——— *psaltria: hesperophilus* n. subsp. Oberholser. 824.

ASTUR [Accipitres].
——— *gentilis: arrigoni* n. subsp. Kleinschmidt. 654.
——— *griseogularis: obiensis* n. subsp. Hartert. 484.
——— *lopezi.* Alexander. 8.

BAEOLOPHUS [Paridae].
——— *inornatus: murinus* n. subsp. Ridgway. 967.
——— *inornatus: restrictus* n. subsp. Ridgway. 967.

Barbatula [Picidae].
——— *kaldti*. Reichenow. 942.

Bathmocercus [Timeliidae].
——— *fuscipennis*. Sharpe. 1081.

Batis [Muscicapidae].
——— *poensis*. Alexander. 7, 12.

Bleda [Pycnonotidae].
——— *alfredi*. Shelley. 1085.
——— *batesi*. Sharpe. 1081.

Bubo [Striges].
——— *kiautschensis*. Reichenow. 943.
——— *virginianus : elachistus* n. subsp. Brewster. 160.

Budytes [Motacillidae].
——— *flavus : alascensis* n. subsp. Ridgway. 967.

Calamanthus [Timeliidae].
——— *montanellus*. Milligan. 793.

Calamocichla [Timeliidae].
——— *cinensis*. Hartert. 479.
——— *poensis*. Alexander. 7, 12.

Callene [Turdidae].
——— *macclounii*. Shelley. 1085.
——— *poensis*. Alexander. 7, 12.
——— *roberti*. Alexander. 7, 12.
——— *sharpei*. Shelley. 1085.

Camaroptera [Sylviidae].
——— *granti*. Alexander. 7, 12.

Campephaga [Campephagidae].
——— *compta*. Richmond. 965.

Campothera [Picidae].
——— *poensis*. Alexander. 7.

Campylopterus [Cypseli].
——— *hemileucurus : mellitus* n. subsp. Bangs. 53.

Cardinalis [Fringillidae].
——— *cardinalis : magnirostris* n. subsp. Bangs. 59.

Catamenia [Fringillidae].
——— *alpica*. Bangs. 54.

Catharus [Turdidae].
——— *gracilirostris : accentor* n. subsp. Bangs. 54.

Catherpes [Troglodytidae].
——— *mexicanus : polioptilus* n. subsp. Oberholser. 856.

Certhilauda [Alaudidae].
——— *somalica*. Witherby. 1247.

Chalcomitra [Nectariniidae].
——— *boothi*. Reichenow. 941.

Chalcurus [Galliformes].
——— *inopinatus*. Rothschild. 996.

Chamaea [Chamaeidae].
——— *fasciata : rufula* n. subsp. Ridgway. 967.

Chloris [Fringillidae].
——— *sinica : ussuriensis* n. subsp. Hartert. 490.

Chloronerpes [Picidae].
——— *simplex : allophycus* n. subsp. Bangs. 61.
——— *yucatanensis : allenii* n. subsp. Bangs. 54.

Chlorophonia [Tanagridae].
——— *frontalis : psittacina* n. subsp. Bangs. 54.

Chlorospingus [Tanagridae].
——— *novicus*. Bangs. 53.

Chordeiles [Anisodactylae].
——— *virginianus : vicinus* n. subsp. Riley. 974.

Cinclodes [Cinclidae].
——— *heterurus*. Madarász. 745.

Cinclus [Cinclidae].
——— *caucasicus*. Madarász. 746.
——— *kiborti*. Madarász. 746.
——— *olympicus*. Madarász. 742.
——— *siemsseni*. Martens. 753.

Cinnyris [Nectariniidae].
——— *infrenata*. Hartert. 485.

Cissa [Corvidae].
——— *katsumatae*. Rothschild. 1001.

Cisticola [Sylviidae].
——— *cisticola : mauritanica* n. subsp. Whitaker. 1224.

Cistothorus [Troglodytidae].
——— *polyglottus : lucidus* n. subsp. Ridgway. 969.

Coccopygia [Ploceidae].
——— *bocagei*. Shelley. 1084.
——— *clarkei*. Shelley. 1086.

Coliuspasser [Ploceidae].
——— *delamerei*. Shelley. 1086.

Columba [Columbae].
——— *albertisii : exsul* n. subsp. Hartert. 486.
——— *phasma* n. nom. Richmond. 965.

Columbigallina [Columbae].
——— *passerina : aflavida* n. subsp. Palmer and Riley. 876.

Corvus [Corvidae].
——— *compilator* n. nom. Richmond. 965.

Corvus [Corvidae].
——— *frugilegus: tschusi* n. subsp. Hartert. 490.
——— *insularis.* Heinroth. 510.
——— *sardonius.* Kleinschmidt. 653.
——— *sardus.* Kleinschmidt. 653.

Corydus n. gen. [Alaudidae]. Dresser. 298.

Craterops [Timeliidae].
——— *smithi: lacuum* n. subsp. Neumann. 824.
——— *smithi: omocnsis* n. subsp. Neumann. 824.

Criniger [Pycnonotidae].
——— *lucasi.* Hartert. 484.

Cryptolopha [Muscicapidae].
——— *cracrctti: waterstradti* n. subsp. Hartert. 484.
——— *herberti.* Alexander. 712.
——— *mindanensis.* Hartert. 483.
——— *waiguensis.* Hartert. 480.

Cryptospiza [Ploceidae].
——— *elizae.* Alexander. 7.

Cyanoderma [Timeliidae].
——— *fulviventris.* Richmond. 965.

Cyanolaca [Corvidae].
——— *mirabilis.* Nelson. 818.

Cyanomitra [Nectariniidae].
——— *poensis.* Alexander. 7.
——— *ursulae.* Alexander. 7, 12.

Cyanopica [Corvidae].
——— *cyanus: swinhoei* n. subsp. Hartert. 490.

Cypselus [Cypseli].
——— *poensis.* Alexander. 7, 12.

Dactylortyx [Galliformes].
——— *thoracicus: sharpei* n. subsp. Nelson. 818.

Dendrexetastes [Dendrocolaptidae].
——— *berlepschi.* Madarász. 745.

Dendrocopus [Pici].
——— *villosus: extimus* n. subsp. Bangs. 53.

Dendroica [Sylviidae].
——— *aestiva brewsteri* n. nom. Grinnell. 452.

Dendrornis [Dendrocolaptidae].
——— *nana: confinis* n. subsp. Bangs. 61.

Diaphorophyia [Muscicapidae].
——— *chlorophrys.* Alexander. 7, 12.

Dicaeum [Dicaeidae].
——— *geelvinkianum: dilectum* n. subsp. Rothschild and Hartert. 1002.
——— *kühni.* Hartert. 485.

Dicrurus [Dicruridae].
——— *mecki.* Rothschild and Hartert. 1002.

Diplochelidon n. gen. [Hirundinidae]. Ridgway. 967.

Dryoscopus [Laniidae].
——— *poensis.* Alexander. 7.

Eafa n. gen. [Meliphagidae]. Rothschild and Hartert. 1002.
——— *maculata.* Rothschild and Hartert. 1002.

Edolisoma [Campephagidae].
——— *melas: mecki* n. subsp. Rothschild and Hartert. 1002.
——— *melas: tommasonis* n. subsp. Rothschild and Hartert. 1002.
——— *meyeri: sharpei* n. subsp. Rothschild and Hartert. 1002.

Elainea [Tyrannidae].
——— *gularis.* Madarász. 745.

Eopsona [Fringillidae].
——— *melanura: migratoria* n. subsp. Hartert. 490.

Erythrospiza [Fringillidae].
——— *githaginea: amantum* n. subsp. Hartert. 490.

Estrilda [Ploceidae].
——— *elizae.* Alexander. 9, 12.
——— *kandti.* Reichenow. 942.
——— *peasei.* Shelley. 1086.
——— *poliopareia.* Reichenow. 942.
——— *sanctae-helenae.* Shelley. 1086.

Euphagus n. nom. [Icteridae]. Richmond. 964.

Euprinodes [Sylviidae].
——— *sclateri.* Alexander. 7.

Francolinus [Galliformes].
——— *wademae.* Grant. 435.

Garrulus [Corvidae].
——— *glandarius: kleinschmidti* n. subsp. Hartert. 490.
——— ——— *rufitergum* n. subsp. Hartert. 490.
——— ——— *whitakeri* n. subsp. Hartert. 490.
——— *ichnusae.* Kleinschmidt. 653.

Gennaeus [Galliformes].
——— *affinis*. Oates. 848.
——— *jonesi*. Oates. 849.
——— *nisbetti*. Oates. 849.

Geothlypis [Columbae].
——— *chapalensis*. Nelson. 818.

Geotrygon [Columbae].
——— *albifacies: rubida* n. subsp. Nelson. 818.
——— *sabae*. Riley. 973.

Gerygone [Muscicapidae].
——— *neglecta: dohertyi* n. subsp. Rothschild and Hartert. 1002.

Goodfellowia n. gen. [Sturnidae]. Hartert. 483.
——— *miranda*. Hartert. 483.

Graliaricula [Formicariidae].
——— *cegeta*. Bangs. 53.

Graucalus [Campephagidae].
——— *babiensis*. Richmond. 965.
——— *simalurensis*. Richmond. 965.
——— *temminckii: tonkeanus* n. subsp. Meijer. 768.

Gymnorhina [Laniidae].
——— *longirostris*. Milligan. 796.

Halcyon [Coraciae].
——— *lopezi*. Alexander. 7, 12.
——— *matthiae*. Heinroth. 510.
——— *husae*. Heinroth. 510.

Haplopelia [Columbae].
——— *poensis*. Alexander. 7.

Heleodytes [Troglodytidae].
——— *nelsoni*. Ridgway. 967.

Henicura [Timeliidae].
——— *leucogastra: musica* n. subsp. Nelson. 818.

Henicorhina [Troglodytidae].
——— *collina*. Bangs. 53.
——— *hilaris: bangsi* n. subsp. Ridgway. 969.
——— *inornata*. Hellmayr. 512.
——— *leucophrys: berlepschi* n. subsp. Ridgway. 969.
——— ——— *castanea* n. subsp. Ridgway. 969.
——— ——— *festiva* n. subsp. Nelson. 818.

Heterocnus [Herodiones].
——— *bolivianus*. Lönnberg. 715.

Heterotrogon [Heterodactylae].
——— *francisci*. Alexander. 7, 12.

Hylia [Sylviidae].
——— *poensis*. Alexander. 7.

Hytargus [Ploceidae].
——— *harterti*. Shelley. 1087.

Hypocryptadius n. gen. [Zosteropidae]. Hartert. 483.
——— *cinnamomeus*. Hartert. 483.

Hypotaenidia [Fulicariae].
——— *wakensis*. Rothschild. 999.

Indicator [Pici].
——— *poensis*. Alexander. 7, 12.

Lamprochelidon n. gen. [Hirundinidae]. Ridgway. 967.

Lamprocolius [Sturnidae].
——— *chubbi*. Alexander. 8, 12.

Lanius [Laniidae].
——— *ludovicianus: mearnsi* n. subsp. Ridgway. 967.

Liopthilus [Muscicapidae].
——— *claudei*. Alexander. 7, 12.

Loxia [Fringillidae].
——— *guillemardi*. Madarász. 742.

Lullula [Alaudidae].
——— *flavescens*. Ehmcke. 326.

Lybius [Pici].
——— *thiogaster*. Neumann. 825.
——— *undatus: gardullensis* n. subsp. Neumann. 824.
——— ——— *salvadorii* n. subsp Neumann. 824.

Macropteryx [Coraciae].
——— *perlonga*. Richmond. 965.

Macrosphenus [Timeliidae].
——— *poensis*. Alexander. 7, 12.

Manucodia [Paradiseidae].
——— *ater: altera* n. subsp. Rothschild & Hartert. 1002.

Masius [Pipridae].
——— *chrysopterus: bellus* n. subsp. Hartert und Hellmayr. 491.

Megascops [Striges].
——— *xantusi*. Brewster. 160.

Melanopteryx [Ploceidae].
——— *maxwelli*. Alexander. 9, 12.

Melithreptes [Meliphagidae].
——— *leucogenys*. Milligan. 792.

Melospiza [Fringillidae].
——— *coronatorum*. Grinnell & Daggett. 457.

Megalurus [Turdidae].
——— *striatus*. Milligan. 793.
Meropogon [Coraciae].
——— *forsteri*: *centralis* n. subsp. Meijer. 768.
Merops [Coraciae].
——— *marionis*. Alexander. 7, 12.
Merula [Turdidae].
——— *algira*. Madarász. 746.
——— *aterrima*. Madarász. 744.
——— *baraka*. Sharpe. 1080.
Microcerculus [Troglodytidae].
——— *accentetus*. Bangs. 33.
——— *corrasus*. Bangs. 54.
Microeca [Muscicapidae].
——— *grisiceps*: *occidentalis* n. subsp. Rothschild & Hartert. 1002.
Microstictus [Pici].
——— *intermedius*. Meijer. 768.
Mionectes [Tyrannidae].
——— *olivaceus*: *galbinus* n. subsp. Bangs. 54.
Monarcha [Muscicapidae].
——— *menckei*. Heinroth. 510.
Monias n. gen. [Fulicariae]. Oustalet et Grandidier. 874.
——— *benschi*. Oustalet et Grandidier. 874.
Muscicapula [Muscicapidae].
——— *hyperythra*: *pallidipectus* n. subsp. Hartert. 486.
Myiopagis [Tyrannidae].
——— *placens*: *accola* n. subsp. Bangs. 53.
——— ——— *pallens* n. subsp. Bangs. 54.
Myzomela [Meliphagidae].
——— *batjanensis*. Hartert. 486.
——— *eques*: *nymani* n. subsp. Rothschild & Hartert. 1002.
——— *kuehni*. Rothschild. 997.
Nectarinia [Nectariniidae].
——— *salvadorii*. Shelley. 1085.
Nesocharis n. gen. [Ploceidae]. Alexander. 8.
——— *shelleyi*. Alexander. 8, 12.
Nucifraga [Corvidae].
——— *caryocatacta*: *rothschildi* n. subsp. Hartert. 490.
Nyctidromus [Caprimulgi].
——— *albicollis*: *silvus* n. subsp. Bangs. 54.
Osychorhynchus [Sturnidae].
——— *mexicanus*: *fraterculus* n. subsp. Bangs. 54.
Oreocincla [Turdidae].
——— *horsfieldi*: *affinis* n. subsp. Richmond. 959.
Oreomystis n. nom. [Fulicariae]. Stejneger. 1126.
Oriolus [Oriolidae].
——— *broderipi*: *oscillans* n. subsp. Hartert. 485.
——— *percivali*. Grant. 431.
——— *mundus*. Richmond. 965.
Orochelidon n. gen. [Hirundinidae]. Ridgway. 967.
Ortalis [Galliformes].
——— *struthopus*. Bangs. 52.
Pachycephala [Laniidae].
——— *johni*. Hartert. 484.
——— *moroka*. Rothschild & Hartert. 1002.
Pachysylvia [Vireonidae].
——— *ochraceiceps*: *pallidipectus* n. subsp. Ridgway. 967.
Parus [Paridae].
——— *carolinensis*: *impiger* n. subsp. Bangs. 57.
——— *corsus*. Kleinschmidt. 652.
——— *inornatus*: *ridgwayi* n. nom. Richmond. 958.
——— *moltchanovi*. Menzbier. 774.
——— *sardus*. Kleinschmidt. 656.
Pelargopsis [Coraciae].
——— *simalurensis*. Richmond. 965.
——— *sodalis*. Richmond. 965.
Penelopides [Coraciae].
——— *talisi*. Finsch. 355.
Petrochelidon [Hirundinidae]
——— *lunifrons*: *tachina* n. subsp. Oberholser. 851.
Phaethornis [Cypseli].
——— *guy*: *coruscus* n. subsp. Bangs. 53.
Philexis [Sylviidae].
——— *lopezi*. Alexander. 8.
Phoenicophaus [Coccyges].
——— *calorhynchus*: *rufiloris* n. subsp. Hartert. 485.
Phyllostrophus [Pycnonotidae].
——— *pocnais*. Alexander. 7, 12.
Picumnus [Pici].
——— *dimotus*. Bangs. 61.

Pinarolestes [Laniidae].
——— *megarhyncha : despectus* n. subsp. Rothschild & Hartert. 1002.
——— ——— *madaraszi* n. subsp. Rothschild & Hartert. 1002.

Pisorhina [Striges].
——— *balia*. Reichenow. 941.
——— *manadensis : kalidupae* n. subsp. Hartert. 485.
——— *umbra*. Richmond. 985.

Pitohui [Laniidae].
——— *dohertyi*. Rothschild & Hartert. 1002.
——— *meyeri*. Rothschild & Hartert. 1002.

Ploceus [Ploceidae].
——— *finschi*. Reichenow. 942.
——— *orphnocephalus*. Erlanger. 334.

Poliolais n. gen. [Sylviidae]. Alexander. 7, 12.
——— *helenorae*. Alexander. 7, 12.

Polioptila [Turdidae].
——— *bairdi*. Ridgway. 967.
——— *nelsoni*. Ridgway. 967.
——— *superciliaris : magna*, n. subsp. Ridgway. 967.

Polyboroides [Accipitres].
——— *pectoralis*. Sharpe. 1075.

Pomatorhinus [Timeliidae].
——— *tickelli : hainanus* n. subsp. Rothschild. 1001.

Premnoplex [Dendrocolaptidae].
——— *coloratus*. Bangs. 54.

Proparus [Timeliidae].
——— *sordidior*. Rippon. 979.

Psalidoprocne [Hirundinidae].
——— *poensis*. Alexander. 7.

Psaltriparus [Paridae].
——— *minimus : saturatus* n. subsp. Ridgway. 967.

Pseudogyps [Accipitres].
——— *africanus : fülleborni* n. subsp. Erlanger. 334.
——— *africanus : schillingsi* n. subsp. Erlanger. 334.
——— *africanus : zechi* n. subsp. Erlanger. 334.

Psittiparus [Timelidae].
——— *gularis : hainanus* n. subsp. Rothschild. 1001.

Ptilinopus [Columbae].
——— *melanocephala : aurescentior* n. subsp. Hartert. 485.

Ptilopus [Columbae].
——— *centralis*. Meijer. 768.

Ptiolotis [Meliphagidae].
——— *aruensis : sharpei* n. subsp. Rothschild & Hartert. 1002.
——— *chrysotis : madaraszi* n. subsp. Rothschild & Hartert. 1002.
——— ——— *saturatior* n. subsp. Rothschild & Hartert. 1002.
——— *finschi*. Rothschild & Hartert. 1002.

Pyromela [Ploceidae].
——— *taha : intercedens* n. subsp. Erlanger. 334.

Pyrrhospiza [Fringillidae].
——— *camerunensis*. Alexander. 1.

Pyrrhulauda [Alaudidae].
——— *butleri*. Shelley. 1086.
——— *lacteidorsalis*. Shelley. 1086.

Pytelia [Ploceidae].
——— *jessei*. Shelley. 1086.
——— *kirki*. Shelley. 1086.

Rhinomyias [Muscicapidae].
——— *umbratilis : richmondi* n. subsp. Stone. 1131.

Rhipidura [Muscicapidae].
——— *matthiae*. Heinroth. 510.
——— *nigrocinnamomea*. Hartert. 483.

Riccordia [Cypseli].
——— *aeneoviridis*. Palmer and Riley. 876.

Ruticilla [Turdidae].
——— *nigra*. Giglioli. 415.

Ruwenzorornis n. gen. [Coccyges]. Neumann. 823.

Salpinctes [Troglodytidae].
——— *maculatus*. Ridgway. 969.
——— *obsoletus : exsul* n. subsp. Ridgway. 967.
——— ——— *notius* n. subsp. Ridgway. 967.

Sapayoa n. gen. [Pipridae]. Hartert. 481, 487.
——— *aenigma*. Hartert. 481, 487.

Sayornis [Tyrranidae].
——— *amnicola*. Bangs. 53.

Scleurus [Dendrocolaptidae].
——— *mexicanus : pullos* n. subsp. Bangs. 53.
Scoptelus [Coraciae].
——— *brunneiceps*. Sharpe. 1081.
Sericornis [Sylviidae].
——— *pusilla*. Rothschild & Hartert. 1002.
Serilophus [Pici].
——— *lunatus : polionotus* n. subsp. Rothschild. 1001.
Serinus [Fringillidae].
——— *madaraszi*. Reichenow. 941.
——— *shelleyi*. Neumann. 828.
——— *simplex*. Reichenow. 942.
Sialia [Turdidae].
——— *mexicana : australis* n. subsp. Nelson. 818.
Siphia [Muscicapidae].
——— *hoëvelli*. Meijer. 768.
Siptornis [Dendrocolaptidae].
——— *certhia*. Madarász. 745.
Sitta [Sittidae].
——— *europæa : persica* n. subsp. Witherby. 1248.
Sittasomus [Dendrocolaptidae].
——— *levis*. Bangs. 53.
Smithornis [Muscicapidae].
——— *sharpei*. Alexander. 7, 12.
——— *zenkeri*. Reichenow. 941.
Spermestes [Ploceidae].
——— *nigriceps : minor* n. subsp. Erlanger. 334.
Spiloptila [Sylviidae].
——— *malopensis*. Sharpe. 1079.
Spilornis [Accipitres].
——— *abbotti*. Richmond. 965.
Stachyridopsis [Timeliidae].
——— *ruficeps : goodsoni* n. subsp. Rothschild. 1001.
Stachyris [Timeliidae].
——— *chrysops*. Richmond. 959.
——— *guttata : swinhoei* n. subsp. Rothschild. 1001.
Stelgidillas [Pycnonotidae].
——— *poensis*. Alexander. 7, 12.
Stelgidopteryx [Hirundinidae].
——— *salvini*. Ridgway. 967.
Stenopsis [Caprimulgi].
——— *cayennensis : inularis* n. subsp. Richmond. 960.
Sterna [Gaviae].
——— *zimmermanni*. Reichenow. 943.
Stiphornis [Sylviidae].
——— *xanthogaster*. Sharpe. 1081.
Sturnus [Sturnidae].
——— *vulgaris : granti* n. subsp. Hartert. 490.
Suthora [Timeliidae].
——— *craddocki*. Bingham. 111.
——— *styani*. Rippon. 978.
——— *thompsoni*. Bingham. 112.
Sycobrotus [Ploceidae].
——— *poensis*. Alexander. 1075.
Synallaxis [Dendrocolaptidae].
——— *occipitalis*. Madarász. 745.
Syrnium [Striges].
——— *occidentale : lucidum* n. subsp. Nelson. 818.
Tachycineta [Hirundinidae].
——— *thalassina : brachyptera* n. subsp. Brewster. 160.
Tanygnathus [Psittaci].
——— *megalorhynchos : viridipennis* n. subsp. Hartert. 485.
Tchitrea [Muscicapidae].
——— *procesa*. Richmond. 965.
Telmatodytes [Troglodytidae].
——— *palustris : iliacus* n. subsp. Ridgway. 967.
——— *palustris : thryophilus* n. subsp. Oberholser. 855.
Thalassogeron [Tubinares].
——— *carteri*. Rothschild. 1000.
Thryophilus [Troglodytidae].
——— *galbraithi : conditus* n. subsp. Bangs. 58.
——— *modestus : elutus* n. subsp. Bangs. 53.
——— ——— *pallus* n. subsp. Ridgway. 969.
——— *pleurostictus : ravus* n. subsp. Ridgway. 969.
——— *sinaloa : russeus* n. subsp. Nelson. 818.
Todopsis [Muscicapidae].
——— *cyanocephalus : dohertyi* n. subsp. Rothschild & Hartert. 1002.
Totanus [Limicolae].
——— *melanoleucus : frazari* n. subsp. Brewster. 160.
Trichoglossus [Psittaci].
——— *johnstoniae*. Hartert. 483.
Tricholaema [Pici].
——— *alexandri*. Shelley. 1085.

Trochalopteron [Timeliidae].
——— *canorum : orestoni* n. subsp. Rothschild. 1001.

Troglodytes [Troglodytidae].
——— *browni*. Bangs. 53.
——— *brunneicollis : nitidus* n. subsp. Nelson. 818.

Turdus [Turdidae].
——— *poensis*. Alexander. 7, 12.

Turtur [Columbae].
——— *capicola : tropica* n. subsp. Reichenow. 944.

Uroboachya [Ploceidae].
——— *phoenicea : quanzae* n. subsp. Hartert. 478.

Urochichla [Troglodytidae].
——— *reptata*. Bingham. 111.

Urolais n. gen. [Sylviidae]. Alexander. 7, 12.
——— *marinae*. Alexander. 7, 12.

Vireo [Vireonidae].
——— *bellii : arizonae* n. subsp. Ridgway. 967.
——— ——— *medius* n. subsp. Oberholser. 852.
——— *huttoni : mexicanus* n. subsp. Ridgway. 967.
——— *mailliardorum*. Grinnell. 456.

Vireolanius [Vireonidae].
——— *melitophrys : goldmani* n. subsp. Nelson. 818.

Vireolanius [Vireonidae]
——— *pulchellus : viridiceps* n. subsp. Ridgway. 967.

Vireosylva [Vireonidae].
——— *gilva : brewsteri* n. subsp. Ridgway. 967.
——— *huttoni : cognatus* n. subsp. Ridgway. 967.
——— *josephae : chiriquensis* n. subsp. Bangs. 460.
——— ——— *costaricensis* n. subsp. Ridgway. 967.

Xenicopsis [Dendrocolaptidae].
——— *anxius*. Bangs. 54.

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6003-6031 MAMMALIA.

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6003 COMPREHENSIVE AND GENERAL WORKS.

General.

Menschenaffen (Anthropomorphae). Studien über Entwickelung und Schädelbau. Hrsg. v. Emil Selenka. Lfg 5: E. Selenka, Zur Keimesgesch. der Primaten. (=Studien über Entwickelungsgesch. d. Tiere, hrsg. v. E. Selenka, H. 10.) Wiesbaden (C. W. Kreidel), 1903, (IV + 14 + II, 329–373, mit 1 Portr. u. 1 Taf.). 33 cm. In Mappe 18,65 M.

Menschenaffen (Anthropomorphae). Studien über Entwickelung und Schädelbau. Hrsg. v. Emil Selenka. Nach seinem Tode auf Grund des Nachlasses fortgeführt v. A. A. W. Hubrecht, H. Strahl und F. Keibel. Lfg 6: O. Walkhoff, menschl. Kiefer. Wiesbaden (C. W. Kreidel), 1903, (I–III, 373–415). 30 cm. 11 M.

[Résultats scientifiques de l'expédition envoyée par l'Académie Impériale des Sciences pour le déterrement du corps d'un mammouth, trouvé en 1901 au bord du fleuve Berezovka]. Научные результаты экспедиціи, снаряженной Императорской Академіей Наукъ для раскопки мамонта, найденнаго на рѣкѣ Березовкѣ въ 1901 году. Изданіе Имп. Ак. Наукъ, St. Peterburg, I, 1903, (152, av. 33 pl. + 4 fig.) 35 cm. [0020].

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Hemigale minor n. sp. Malay. **Miller**, G. S., *jun.* Washington, D.C., Smithonian Inst. Misc. Col., Q. **45**, 1903, (1–73, with pl.).

Herpestes hosei n. sp. **Jentink**, F. A. Leiden, Notes Mus. Jentink, **23**, (223–228).

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Hyaenodon † nn. spp. Oligocene, Montana. **Douglass**, E. Philadelphia, Pa., Trans. Amer. Phil. Soc., (N. Ser.). **20**, 1902, (237–279).

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Lynchus chrysomelanotis n. sp. Palaistina. **Nehring**, A. Berlin, SitzBer. Ges. natf. Freunde, **1902**, (123–128, 147–148).

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——— *erminea, M. vulgaris*, notes. **Dalgleish**, G. Zoologist, London, (Ser. 4), **7**, 1903, (190).

——— *foina: syriaca* n. subsp., *M. palaesyriaca* n. sp. **Nehring**, A. Berlin, SitzBer. Ges. natf. Freunde, **1902**, (145–147).

——— *martes* in the Highlands. **Harvie-Brown**, J. A. Ann. Scot. Nat. Hist., Edinburgh, **1903**, (117).

——— *putorius* from Ross-shire. **Bishopp**, C. H. *l.c.* (48).

Paradoxurus lignicolor n. sp. Malay. **Miller**, G. S., *jun.* Washington, D.C., Smithsonian Inst. Misc. Col., Q. **45**, 1903, (1–73, with pl.).

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Phoca. **Clark**, G. A. and **Jordan**, D. S. Int. Q., Burlington, Vt., **7**, 1903, (222–230).

——— *groenlandica*, note. **Campbell**, J. Ann. Scot. Nat. Hist., Edinburgh, **1903**, (213).

——— ——— in Great Britain. **Jourdain**, F. C. R. Zoologist, London, (Ser. 4), **7**, 1903, (312).

——— ——— **Saemundsson**, B. Bergen, Norsk. Fisket., **22**, 1903, (412–422).

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Procyon psora: pacifica n. subsp. California. **Merriam**, C. H. Washington, D.C., U. S. Dept. Agric. Div. Biol. Surv., N. Amer. Fauna, No. **16**, 1899 (179, with text fig. and pl.). [Reprinted in 1901].

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Pterodon africanus† n. sp. Egypt. **Andrews**, C. W. *l.c.* (342–343, with fig.).

Putorius (Arctogale) pygmaeus n. sp. Siberia. **Allen**, J. A. New York, N.Y., Bull. Amer. Mus. Nat. Hist., **19**, 1903, (101–184).

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——— *streatori: leptus* n. subsp. United States. **Merriam**, C. H. Washington, D.C., Proc. Biol. Soc., **16**, 1903, (73–78). Separate. 23.3 cm.

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Stenorhinchus. **Thomas**, O. *l.c.* (153–154).

Trocharion† n. gen., *T. albanense*† n. sp. France. **Major**, C. I. F. Geol. Mag., London, [4], **10**, 1903, (536–537).

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Ursus. **Noack**, T. Zool. Anz., Leipzig, **27**, 1903, (87–96).

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——— *americanus*, environmental effects. **Baker**, A. B. Washington, D.C., Smithsonian Inst., Misc. Coll., Q. **45**, 1903, (175–179, with pl.).

——— *hylodromus* n. sp. **Elliot**, D. G. Chicago, Ill., Pub. Field Columb. Mus., Zool. Ser., **3**, 1903, (239–261).

——— *maritimus*, cause of death of a specimen in the Zoological Society's Gardens. **Salaman**, R. N. London, Proc. Zool. Soc., **1903**, 2, (348–349).

Vulpes anadyrensis n. sp. Siberia **Allen**, J. A. New York, N.Y., Bull. Amer. Mus. Nat. Hist., **19**, 1903, (101–184). Separate. 24.5 cm.

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Akodon nn. spp. Patagonia. **Thomas**, O. Ann. Mag. Nat. Hist., London, (Ser. 7), **12**, 1903, (241–243).

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Alactaga williamsi: laticeps n. subsp. Nordwest - Kleinasien. **Nehring**, A. Berlin, SitzBer. Ges. natf. Freunde, **1903**, (257–360).

Anisomys n. gen., *A. imitator* n. sp. British New Guinea. **Thomas**, O. London, Proc. Zool. Soc., **1903**, 2, (199–201, pl. XXIII).

——— das Murmelthier der nördlichen Mongolei. (Russ.) **Podbélskij**, A. I. Kazanʹ, Prot. Obšč. jest., **1901–1902**, [1902], Jhg. 33, No. 195, (1–12).

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Arctomys marmotta, Bau. **Löns**, H. Weidmann, Braunschweig, **34**, 1903, (713–714).

Arvicanthis dunni n. sp. Soudan. **Thomas**, O. London, Proc. Zool. Soc., **1903**, 1, (297–298).

Arvicola glareolus, the bank vole in Suffolk. **Jourdain**, J. C. R. Zoologist, London, (Ser. 4), **7**, 1903, (69).

Atherura zygomatica n. sp. Malay. **Miller**, G. S., *jun*. Washington, D.C., Smithsonian Inst. Misc. Col., Q. **45**, 1903, (1–73, with pl.).

Castor fiber† in Yorkshire. **Sheppard**, T. Naturalist, London, **1903**, (109–110).

——— ——— in Yorkshire. **Speight**, H. *l.c.* (108–109).

——— ——— Lebensweise. **Diederich**, E. Wild u. Hund, Berlin, **9**, 1903, (730–731).

——— ——— Wohnungen. **Friedrich**, Hermann. Ueber Kanalbauten der Biber. Dessau (Druck v. C. Dünnhaupt), 1902, (1–6, mit 1 Taf.).

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Chiropodomys niadis n. sp. Malay. **Miller**, G. S., *jun*. Washington, D.C., Smithsonian Inst. Misc. Col., Q. **45**, 1903, (1–73, with pl.).

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——— *adocetus* n. sp. Mexico. **Merriam**, C. H. *l.c.* (79–82).

——— (*Otospermophilus*) *grammurus: rupestris* n. subsp. New Mexico. **Allen**, J. A. New York, N.Y., Bull. Amer. Mus. Nat. Hist., **19**, 1903, (587–612).

——— ——— *utah* n. subsp. United States. **Merriam**, C. H. Washington, D.C., Proc. Biol. Soc., **16**, 1903, (75–78).

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Amer. Mus. Nat. Hist., **19**, 1903, (521–527).

Coendou centralis n. sp. Matto Grosso. **Thomas**, O. London, Proc. Zool. Soc., **1903**, 2, (240–241).

——— *lacuatus* n. sp. Chiriqui. **Thomas**, O. Ann. Mag. Nat. Hist., London, (Ser. 7), **11**, 1903, (381).

Cricetulus atticus n. sp. Griechenland. **Nehring**, A. Berlin, SitzBer. Ges. natf. Freunde, **1902**, (1–7).

Cricetus vulgaris : babylonius n. subsp. Asien. **Nehring**, A. *l.c.* **1903**, (360–361).

Ctenomys nn. spp. **Allen**, J. A. New York, N.Y., Bull. Amer. Mus. Nat. Hist., **19**, 1903, (185–196).

——— *azarae* n. sp. S. America. **Thomas**, O. Ann. Mag. Nat. Hist., London, (Ser. 7), **11**, 1903, (228–229).

Cylindrodon n. gen., *C. fontes* † n. sp. Oligocene, Montana. **Douglass**, E. Philadelphia, Pa., Trans. Amer. Phil. Soc., (N. Ser.), **20**, 1902, (237–279).

Dasyprocta lucifer n. sp, *D. lucifer : cayennae* n. subsp. Mexico. **Thomas**, O. *l.c.* (491–492).

Dendromys nn. spp. Africa. **Thomas**, O. *l.c.* **12**, 1903, (310–312).

Dipodillus henleyi n. sp. Egypt. **De Winton**, W. E. Nov. Zool., Tring, **10**, 1903, (284, pl. VIII, fig. 1).

Dipodomys nn. subspp. **Elliot**, D. G. Chicago, Ill., Pub. Field Columb. Mus., Zool. Ser., **3**, 1903, (239–261).

Dipoides majori † n. sp. China. **Schlosser**, M. München, Abh. Ak. Wiss., math.-phys. Cl., **22**, Abt. I, 1902, (40).

Eligmodontia morgani n. sp. Patagonia. **Allen**, J. A. New York, N.Y., Bull. Amer. Mus. Nat. Hist., **14**, 1901, (405–412).

Eliomys gymnesicus n. sp., *E. lerotinus : tunetae* n. subsp. Tunis and Minorca. **Thomas**, O. Ann. Mag. Nat. Hist., London, (Ser. 7), **11**, 1903, (494–496).

——— *lerotinus : occidentalis* n. subsp. Western Sahara. **Thomas**, O. Nov. Zool., Tring, **10**, 1903, (300–301).

Eosaccomys n. nom. = *Saccostumus* Peters. **Palmer**, T. S. Science, New York, N.Y., (N. Ser.), **17**, 1903, (873).

Erethizon epixanthus : nigrescens n. subsp. N. America. **Allen**, J. A. New York, N.Y., Bull. Amer. Mus. Nat. Hist., **19**, 1903, (521–527).

Eumys minor† n. sp. Oligocene, Montana. **Douglass**, E. Philadelphia, Pa., Trans. Amer. Phil. Soc., (N. Ser.), **20**, 1902, (237–279).

Euneomys petersoni n. sp. **Allen**, J. A. New York, N.Y., Bull. Amer. Mus. Nat. Hist., **19**, 1903, (185–196).

Eutamias canicaudus n. sp. United States. **Merriam**, C. H. Washington, D.C., Proc. Biol. Soc., **16**, 1903, (73–78).

——— *durangae*† n. sp. New Mexico. **Allen**, J. A. New York, N.Y., Bull. Amer. Mus. Nat. Hist., **19**, 1903, (587–612).

Evotomys (Craseomys) latastei n. nom. (= *Arvicola rufocanus kamtschaticus* Lataste not *A. kamtschaticus* Polyakoff) ; *E. jochelsoni* n. sp. Siberia. **Allen**, J. A. *l.c.* (145–148).

——— *scomerensis* n. sp. Wales. **Hamilton**, G. E. **Barrett-**. Dublin, Proc. R. Irish Acad., **24**, 1903, (316).

Fornarina n. gen. for *Heteroccephalus phillipsi*. **Thomas**, O. London, Proc. Zool. Soc., **1903**, 2, (336).

Funambulus nn. spp. Malay. **Miller**, G. S., *jun.* Washington, D.C., Smithsonian Inst. Misc. Col., Q. **45**, 1903, (1–[illegible] with pl.).

——— *insignis : jalorensis* n. subsp. Malay Peninsula. **Bonhote**, T. L. Fascic. Malay. Zool., **1**, (25–26).

Funisciurus mandingo n. sp. Gambia. **Thomas**, O. Ann. Mag. Nat. Hist., London, (Ser. 7), **11**, 1903, (79–80).

——— *raptorum* n. sp. Lower Nigeria. **Thomas**, O. *l.c.* **11**, 1903, (80–81).

Gerbillus agag n. sp. Soudan. **Thomas**, O. London, Proc. Zool. Soc., **1903**, 1, (296–297).

——— *riggenbachi* n. sp. Western Sahara. **Thomas**, O. Nov. Zool., Tring, **10**, 1903, (301).

Glires [Die Leber der Säugethiere, ihre Form und Lappen speciell bei den Nagethieren]. **Retzius**, T. (Schwedisch) Abo, 1903, (VII + 192, mit 71 Fig. und 6 Taf.). 26 cm.

Heterocephalus ansorgei n. sp. British East Africa. **Thomas**, O. London, Proc. Zool. Soc., **1903**, 2, (336-337).

Hyomys n. gen., *H. meeki* n. sp. British New Guinea. **Thomas**, O. *l.c.* (198-199, pl. XXIII.).

——— nn. spp. America. **Osborn**, H. F. New York, N.Y., Bull. Amer. Mus. Nat. Hist., **16**, 1902, (169-214, with text-fig.).

Hypogeomis australis† n. sp. Madagascar. **Grandidier**, G. Bul. Muséum, Paris, **1903**, (13-15, av. fig.).

Hypudaeus arvalis als Zerstörerin eines Bienenstaates. **Israël**, W. Gera, Jahresber. Ges. Natw., **43-45**, (1900-02), 1903, (84-85).

Ischyromys veterior† n. sp. Montana. **Matthew**, W. D. New York, N.Y., Bull. Amer. Mus. Nat. Hist., **19**, 1903, (197-226).

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Lenothrix n. gen., *L. canus* n. sp. Sumatra. **Miller**, G. S., *jun.* Washington, D.C., Smithsonian Inst., Nation. Mus. Proc., **26**, 1903, (137-184).

Lepus, élevage. **Lamarche**, C. de. Paris, Bul. soc. nat. acclim., **50**, 1903, (145-151).

——— (*Microtolagus*) nn. subspp. New Mexico. **Allen**, J. A. New York, N.Y., Bull. Amer. Mus. Nat. Hist., **19**, 1903, (587-612).

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——— *capensis: centralis* n. subsp. Cape Colony. **Thomas**, O. *l.c.* **12**, 1903, (344).

——— *cuniculus*, Praputialdrüsen. **Courant**, G. Arch. mikr. Anat., Bonn. **62**, 1903, (176-193, mit 2 Taf.).

Lepus cuniculus. Graviditas abdominalis bei. **Happe**, H. Anat. Hefte, Wiesbaden, Abt. 1, **22**, 1903, (601-619, mit 3 Taf.).

——— ——— **Starke**, P. Die praktische Kaninchenzucht. Handbuch für Anfänger und erfahrene Züchter. 2. u. 3. Aufl. Leipzig (F. Poppe), [1903], (IV + 187). 18 cm. Geb. 2 M.

——— (*Sylvilagus*) *durangae* n. sp. New Mexico. **Allen**, J. A. New York, N.Y., Bull. Amer. Mus. Nat. Hist., **19**, 1903, (587-612).

——— *gichiganus* n. sp. Siberia. **Allen**, J. A. *l.c.* (101-184).

——— *harterti* n. sp. Western Sahara. **Thomas**, O. Nov. Zool., Tring, **10**, 1903, (301-302).

——— *klamathensis* n. sp. California. **Merriam**, C. H. Washington, D.C., U.S. Dept. Agric. Div. Biol. Surv., N. Amer. Fauna, No. **16**, 1899, (179, with text fig. and pl.). [Reprinted in 1901].

——— *laticinctus* n. sp. and 2 nn. subspp. **Elliot**, D. G. Chicago, Ill., Pub. Field Columb. Mus., Zool. Ser., **3**, 1903, (239-261).

——— *monticularis* n. sp. Cape Colony. **Thomas**, O. Ann. Mag. Nat. Hist., London, (Ser. 7), **11**, 1903, (78-79).

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——— *timidus*. **Stephan**, W. *l.c.* (324-325, 340-341, 356-357, 372-374).

Meriones blackleii n. sp. Smyrna. **Thomas**, O. Ann. Mag. Nat. Hist., London, (Ser. 7), **12**, 1903, (189).

Microtus (*Microtus*) *hartingi* n. sp. Thessaly. **Hamilton**, G. E. H. **Barrett**. *l.c.* **11**, 1903, (307-308).

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Moschomys n. nom. for *Megalomys*, type *Mus pilorides*. **Trouessart**, E. L.

Ann. Mag. Nat. Hist., London, (Ser. 7), **11**, 1903, (385–388).

Mus, développement de la capsule surrénale. **Roud, A.** Lausanne, Bull. Soc. Sc. Nat., **38**, 1902, (187–258, av. 4 pls.).

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——— nervous system. **Hatai, S.** Chicago, Ill., Dec. Pub. Univ. Chic., (Ser. 1), **10**, 1903, ([177]–190, with pl.).

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——— ——— in England. **Hamilton, G. E. H. Barrett-.** Irish Nat., Dublin, **12**, 1903, (167).

——— *epimelas* n. sp. Griechenland. **Nehring, A.** Berlin, SitzBer. Ges. natf. Freunde, **1902**, (1–7).

——— *hypoxanthus* nn. subspp. Africa. **Thomas, O.** Ann. Mag. Nat. Hist., London, (Ser. 7), **12**, 1903, (342–343).

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LIST OF NEW GENERA AND SPECIES.

Aceratherium [Perissodactyla].
——— *bavaricum*†. Strömer von Reichenbach. 687.

Acomys [Rodentia].
——— *nesiotes*. Bate. 42.

Agriochoerus [Artiodactyla].
——— *maximus*†. Douglass. 179.
——— *minimus*†. Douglass. 179.

Akodon [Rodentia].
——— *suffusus*. Thomas. 722.
——— *tucumanensis*. Allen. 8.
——— *vestitus*. Thomas. 722.

Alactaga [Rodentia].
——— *williamsi*: *laticeps* n. subsp. Nehring. 491.

Alcicephalus [Artiodactyla].
——— *sinensis*†. Schlosser. 611.

Anchitherium [Perissodactyla].
——— *zitteli*†. Schlosser. 611.

Anisomys n. gen. [Rodentia]. Thomas. 705.
——— *imitator*. Thomas. 705.

Anthorhina [Chiroptera].
——— *picata*. Thomas. 724.

Apternodus† n. gen. [Insectivora]. Matthew. 427A.
——— *mediacrus*†. Matthew. 427A.

Arretotherium† n. gen. [Artiodactyla]. Douglass. 179.
——— *acridens*†. Douglass. 179.

Arsinoitherium [Subungulata].
——— *andrewsii*†. Geol. Mag., London, [4], **10,** 1903, (529–531, pls. xxiii–xxiv).

Artibeus [Chiroptera].
——— *hercules*. Rehn. 565.
——— *parvipes*. Rehn. 565.

Arvicanthis [Rodentia].
——— *dunni*. Thomas. 703.

Atherura [Rodentia].
——— *zygomatica*. Miller. 466.

Bassariscus [Carnivora].
——— *albipes*. Elliot. 195.
——— *sumichrasti*: *notinus* n. subsp. Thomas. 715.

Bathygenys† n. gen. [Artiodactyla]. Douglass. 179.
——— *alpha*†. Douglass. 179.

Bos [Artiodactyla].
——— *gaurus*: *readei* n. subsp. Lydekker. 397.

Bunaelurus [Carnivora].
——— *infelix*†. Matthew. 427A.

Callicebus n. nom. [Primates]. Thomas. 721.

Calomys [Monotremata].
——— *trinitatis*: *venezuelae* n. subsp. Thomas. 718.

Canis [Carnivora].
——— *albigula*. Philippi. 537.
——— *amblyodon*. Philippi. 537.
——— *anthus : soudanicus* n. subsp. Thomas. 703.
——— *imparilis*. Allen. 17.
——— *kaffensis*. Neumann. 497.
——— *maullinicus*. Philippi. 537.
——— *sladeni*. Thomas. 706.
——— *thous : anguleusis* n. subsp. Thomas. 724.
——— *torquatus*. Philippi. 537.
——— *trichodactylus*. Philippi. 537.

Cebus [Primates].
——— *imitator*. Thomas. 715.

Cephalophus [Artiodactyla].
——— *brookei*. Thomas. 714.
——— *ignifer*. Thomas. 702.

Cercopithecus [Primates].
——— *djamdjamensis*. Neumann. 497.
——— *ellenbecki*. Neumann. 497.
——— *hilgerti*. Neumann. 497.
——— *matschiei*. Neumann. 497.

Cervavus † n. gen. [Artiodactyla]. Schlosser. 611.
——— *rutimeyeri* †. Schlosser. 611.
——— *speciosus* †. Schlosser. 611.

Cervus [Artiodactyla].
——— *merriami*. Nelson. 494.

Chaeronycteris [Chiroptera].
——— *godmani*. Thomas. 712.

Chelemys n. subgen. [Rodentia]. Thomas. 722.

Chilonatalus [Chiroptera].
——— *tumidifrons*. Miller. 461.

Chiropodomys [Rodentia].
——— *niadis*. Miller. 466.

Citellus [Rodentia].
——— *adocetus*. Merriam. 440.
——— *buxtoni*. Allen. 14.
——— *chlorus*. Elliot. 195.
——— *cremonomus*. Elliot. 195.
——— *grammurus ; rupestris* n. subsp. Allen. 17.
——— *grammurus : utah* n. subsp. Merriam. 439.
——— *leucurus : vinnulus* n. subsp. Elliot. 195.
——— *nebulicola*. Osgood. 522.
——— *plesius : ablusus* n. subsp. Osgood. 522.
——— *stejnegeri*. Allen. 14.
——— *stonei*. Allen. 16.

Coendou [Rodentia].
——— *centralis*. Thomas. 706.
——— *laenatus*. Thomas. 715.

Colobus [Primates].
——— *gallarum*. Neumann. 497.

Colodon [Perissodactyla].
——— *cingulatus* †. Douglass. 179.

Conepatus [Carnivora].
——— *huntii*. Thomas. 724.

Cricetulus [Rodentia].
——— *atticus*. Nehring. 481.

Cricetus [Rodentia].
——— *vulgaris : babylonius* n. subsp. Nehring. 492.

Crocidura [Insectivora].
——— *russula : cypria* n. subsp. Bates. 40.

Ctenomys [Rodentia].
——— *azarae*. Thomas. 711.
——— *colburni*. Allen. 15.
——— *robustus*. Allen. 15.
——— *sericeus*. Allen. 15.

Cylindrodon † n. gen. [Rodentia]. Douglass. 179.
——— *fontis* †. Douglass. 179.

Cynodictis [Carnivora].
——— *paterculus* †. Matthew. 427A.

Dasyprocta [Rodentia].
——— *lucifer*. Thomas. 718.
——— *lucifer : cayennae* n. subsp. Thomas. 718.

Dendrodorcopsis n. gen. [Marsupialia]. Rothschild. 582.
——— *woodwardi*. Rothschild. 582.

Dendromys [Rodentia].
——— *insignis*. Thomas. 723.
——— *messorius*. Thomas. 723.

Diclidurus [Chiroptera.]
——— *virgo*. Thomas. 715.

Diphylla [Chiroptera].
——— *centralis*. Thomas. 715.

Dipodillus [Rodentia].
——— *henleyi*. De Winton. 164.

Dipodomys [Rodentia].
——— *deserti : helleri* n. subsp. Elliot. 195.
——— *merriami : arenivagus* n. subsp. Elliot. 195.
——— *merriami : mortivallis* n. subsp. Elliot. 195.

Dipoides [Rodentia].
——— *majori* †. Schlosser. 611.

Dryopithecus [Primates].
——— *darwini*. Abel. 1.
Elephas [Subungulata].
——— *cypriotes*. Bate. 41.
Eligmodontia [Rodentia].
——— *morgani*. Allen. 8.
Eliomys [Rodentia].
——— *gymnesicus*. Thomas. 720.
——— *lerotinus: occidentalis* n. subsp. Thomas. 720.
——— *lerotinus: tunetae* n. subsp. Thomas. 720.
Eosaccomys n. nom. [Rodentia]. Palmer. 528.
Erethizon [Rodentia].
——— *epixanthus: nigrescens* n. subsp. Allen. 16.
Erinaceus [Insectivora].
——— *orientalis*. Allen. 14.
Eucervaria n. nom. [Carnivora]. Palmer. 528.
Eucinepelius [Edentata].
——— *complicatus*†. Brown. 95.
Eucrotaphus [Artiodactyla].
——— *helenae*†. Douglass. 179.
Eumys [Rodentia].
——— *minor*†. Douglass. 179.
Euneomys [Rodentia].
——— *petersoni*. Allen. 15.
Eutamias [Rodentia].
——— *canicaudus*. Merriam. 439.
——— *durangae*. Allen. 17.
Evotomys [Rodentia].
——— *jochelsoni*. Allen. 14.
——— *latastei* n. nom. Allen. 14.
——— *scomerensis*. Hamilton. 269.
Felis [Carnivora].
——— *aztecus: browni* n. subsp. Merriam. 439.
——— *concolor: pearsoni* n. subsp. Thomas. 731.
——— *glaucula*. Thomas. 722.
——— *ingrami*. Bonhote. 70.
——— *pardinoides: andina* n. subsp. Thomas. 722.
——— *pardinoides: oncilla* n. subsp. Thomas. 722.
——— *ricketti*. Bonhote. 68.
——— *salinarum*. Thomas. 722.
——— *villosa*. Bonhote. 70.
Fornarina n. gen. [Rodentia]. Thomas. 708.
Funambulus [Rodentia].
——— *insignis: jalorensis* n. subsp. Bonhote. 73.
Funambulus [Rodentia].
——— *obscurus*. Miller. 466.
——— *peninsulae*. Miller. 466.
——— *rostratus*. Miller. 466.
Funisciurus [Rodentia].
——— *mandingo*. Thomas. 710.
——— *raptorum*. Thomas. 710.
Galeopithecus [Insectivora].
——— *aoris*. Miller. 466.
——— *gracilis*. Miller. 466.
——— *natunae*. Miller. 466.
——— *pumilus*. Miller. 466.
——— *saturatus*. Miller. 466.
——— *tuancus*. Miller. 466.
Galictis [Carnivora].
——— *andina*. Thomas. 724.
Gazella [Artiodactyla].
——— *albonotata*. Rothschild. 583.
——— *altidens*†. Schlosser. 611.
——— *dorcadoides*†. Schlosser. 611.
——— *granti: robertsi* n. subsp. Thomas. 704.
——— *paleosinensis*†. Schlosser. 611.
Genetta [Carnivora].
——— *guardafuensis*. Neumann. 500.
——— *hararensis*. Neumann. 500.
——— *matschei*. Neumann. 500.
——— *plesictoides*. Bate. 39.
——— *terrae sanctae*. Neumann. 500.
Gerbillus [Rodentia].
——— *agag*. Thomas. 703.
——— *riggenbachi*. Thomas. 729.
Giraffa [Artiodactyla].
——— *camelopardalis: angolensis*. n. subsp. Lydekker. 399.
——— ——— *congoensis* n. subsp. Lydekker. 398.
——— ——— *rothschildi* n. subsp. Lydekker. 399.
Glyptotherium n. gen. [Edentata]. Osborn. 520.
——— *texanum*†. Osborn. 520.
Gorilla [Primates].
——— *beringeri*. Matschie. 425.
Griphopithecus n. gen. [Primates]. Abel. 1.
——— *sucssi*. Abel. 1.
Gulo [Carnivora].
——— *luteus*. Elliot. 195.
Hapale [Primates].
——— *flaviceps*. Thomas. 722.

Helicotragus n. nom. [Artiodactyla]. Palmer. 528.

Helictis [Carnivora].
——— *pierrei*. Bonhote. 71.

Hemigale [Carnivora].
——— *minor*. Miller. 466.

Herpestes [Carnivora].
——— *hosei*. Jentink. 325.
——— *ruddi*. Thomas. 725.

Heterocephalus [Rodentia].
——— *ansorgei*. Thomas. 708.

Hipposideros [Chiroptera].
——— *semoni*. Matschie. 426.

Hyaena [Carnivora].
——— *gigantea*†. Schlosser. 611.

Hyaenodon [Carnivora].
——— *minutus*†. Douglass. 179.
——— *montanus*†. Douglass. 177.

Hyaenognathus† n. gen. [Carnivora]. Merriam. 443.
——— *dubius*†. Merriam. 443.
——— *pachyodon*†. Merriam. 443.

Hylonycteris n. gen. [Chiroptera]. Thomas. 712.
——— *underwoodi*. Thomas. 712.

Hyomys n. gen. [Rodentia]. Thomas. 705.
——— *meeki*. Thomas. 705.
——— *marshi*†. Osborn. 519.
——— *wintensis*†. Osborn. 519.
——— *wortmani*†. Osborn. 519.

Hypogeomis [Rodentia].
——— *australis*†*. Grandidier. 252.

Ictops [Insectivora].
——— *acutidens*†. Douglass. 179.
——— *thomsoni*†. Matthew. 427a.

Ischyromys [Rodentia].
——— *veterior*†. Matthew. 427a.

Jaculus [Rodentia].
——— *gordoni*. Thomas. 703.

Kannabateomys [Rodentia].
——— *amblyonyx : pallidior* n. subsp. Thomas. 718

Leggada [Rodentia].
——— *tenella*. Thomas. 703.

Lemmus [Rodentia].
——— *obensis : chrysogaster* n. subsp. Allen. 14.

Lenothrix n. gen. [Rodentia]. Miller. 465.
——— *canus*. Miller. 465.

Leptoplesictis† n. gen. [Carnivora]. Major. 411.
——— *minor*†. Major. 411.

Leptotragulus [Artiodactyla].
——— *profectus*.† Matthew. 427a.

Lepus [Rodentia].
——— *capensis : centralis* n. subsp. Thomas. 723.
——— *creticus*. Hamilton. 266.
——— *cyprius*. Hamilton. 266.
——— *durangae*. Allen. 17.
——— *gaillardi : battyi* n. subsp. Allen. 17.
——— *gichiganus*. Allen. 14.
——— *harterti*. Thomas. 729.
——— *klamathensis*. Merriam. 442.
——— *laticinctus*. Elliot. 195.
——— ——— *perplicatus* n. subsp. Elliot. 195.
——— ——— *rufipes* n. subsp. Elliot. 195.
——— *monticularis*. Thomas. 709.
——— *parnassius*. Miller. 462.
——— *texianus : micropus* n. subsp. Allen. 17.

Limnenetes† n. gen. [Artiodactyla]. Douglass. 179.
——— (?) *anceps*†. Douglass. 179.
——— *platyceps*†. Douglass. 179.

Louchophylla n. gen. [Chiroptera]. Thomas. 724.
——— *mordax*. Thomas. 724.

Lophocebus n. nom. [Primates]. Palmer. 528.

Lutra [Carnivora].
——— *brachygnathus*†. Schlosser. 611.
——— *concolor*. Neumann. 497.

Lutreola [Carnivora].
——— *macrodon*†. Prentiss. 546.

Lyncus [Carnivora].
——— *chrysomelanotis*. Nehring. 485.

Lynx [Carnivora].
——— *fasciatus : pallescens* n. subsp. Merriam. 442.
——— *ruffus : eacuinapae* n. subsp. Allen. 18.

Macacus [Primates].
——— *fuscus*. Miller. 465.
——— *pagensis*. Miller. 466.
——— *phaeura*. Miller. 466.

Machaerodus [Carnivora].
——— *horribilis*†. Schlosser. 611.

Marmosa [Marsupialia].
——— *constantiae*. Thomas. 700.

Mastodon [Subungulata].
——— *lydekkeri*†. Schlosser. 611.

Megalohyrax† n. gen. [Subungulata]. Andrews. 22.
——— *eocaenus*†. Andrews. 22.
Meles [Carnivora].
——— *taxipater*†. Schlosser. 611.
Meriones [Rodentia].
——— *blackleii*. Thomas. 721.
Metacherromys n. gen. [Primates]. Wortman. 799.
——— *marshi*†. Wortman. 799.
Metachirus [Musupialia].
——— *nudicaudatus : bolivianus* n. subsp. Allen. 8.
Micropternodus† n. gen. [Insectivora]. Matthew. 427A.
——— *borealis*†. Matthew. 427A.
Microsyops [Primates].
——— *schlosseri*†. Wortman. 799.
Microtus [Rodentia].
——— *hartingi*. Hamilton. 267.
——— *thomasi*. Hamilton. 267.
Miniopterus [Chiroptera].
——— *inflatus*. Thomas. 727.
Morenella n. nom. [Rodentia]. Palmer. 528.
Moschomys n. nom. [Rodentia] Trouessart. 742.
Mus [Rodentia].
——— *annandalei*. Bonhote. 73.
——— *atridorsum* n. nom. Miller. 460.
——— *balae*. Miller. 466.
——— *bentincanus*. Miller. 466.
——— *bukit*. Bonhote. 66.
——— *casensis*. Miller. 466.
——— *catellifer*. Milller. 465.
——— *domelicus*. Miller. 466.
——— *domitor*. Miller. 465.
——— *epimelas*. Nehring. 481.
——— *gilbiventer*. Miller. 466.
——— *griseiventer*. Bonhote. 73.
——— *hypoxanthus : bacchante* n. subsp. Thomas. 723.
——— ——— *unyori* n. subsp. Thomas. 723.
——— *jalorensis*. Bonhote. 73.
——— *julianus*. Miller. 466.
——— *kina*. Bonhote. 66.
——— *lucas*. Miller. 466.
——— *lugens*. Miller. 466.
——— *luteolus*. Miller. 466.
——— *masae*. Miller. 466.
——— *matthaeus*. Miller. 466.
——— *mystacinus : smyrnensis* n. subsp. Thomas. 721.
Mus [Rodentia].
——— *pagensis*. Miller. 466.
——— *rajit*. Bonhote. 66.
——— *simalurensis*. Miller. 465.
——— *soccatus*. Miller. 466.
——— *stridens*. Miller. 466.
——— *stridulus*. Miller. 466.
——— *surdus*. Miller. 465.
——— *umbridorsum*. Miller. 466.
——— *vicerex*. Bonhote. 70.
Mustela [Carnivora].
——— *americana : kenaiensis* n. subsp. Elliot. 194.
——— *foina : syriaca* n. subsp. Nehring. 486.
——— *palaesyriaca*. Nehring. 486.
Mylagaulodon n. gen. [Rodentia]. Sinclair. 638.
——— *angulatus*†. Sinclair. 638.
Myoprocta [Rodentia].
——— *acouchy* n. nom. Thomas. 724.
Myotis [Chiroptera].
——— *californicus : durangae* n. subsp. Allen. 17.
——— *dominicensis*. Miller. 451.
Myoxus [Rodentia].
——— *glis : orientalis* n. subsp. Nehring. 479, 490.
——— *intermedius*. Nehring. 488.
——— *nitedula : wingei* n. subsp. Nehring. 481.
Nannospalax n. nom. [Rodentia]. Palmer. 528.
Neacomys [Rodentia].
——— *spinosus : amaenus* n. subsp. Thomas. 706.
Necronycteris n. nom. [Chiroptera]. Palmer. 706.
Nectomys [Rodentia].
——— *squamipes : mattensis* n. subsp. Thomas. 706.
Nelsonia [Rodentia].
——— *goldmani*. Merriam. 440.
Neocothurus n. nom. [Primates]. Palmer. 528.
Neohipparion† n. gen. [Perissodactyla]. Gidley. 239.
——— *whitneyi*†. Gidley. 239.
Neopithecus n. nom. [Primates]. Abel. 1.
Neotoma [Rodentia].
——— *desertorum : grandis* n. subsp. Elliot. 195.

Neotoma [Rodentia].
——— *distincta*. Bangs. 31.
——— *fuscipes: mohavensis* n. subsp. Elliott. 195.
——— *goldmani*. Merriam. 438.
——— *intermedia: durangae* n. subsp. Allen. 17.
——— *narus*. Merriam. 438.

Neotragus [Artiodactyla].
——— *batesi*. De Winton. 163.

Nesokia [Rodentia].
——— *gracilis*. Nehring. 484.

Neurotrichus [Insectivora].
——— *gibbsi: major* n. subsp. Merriam. 442.

Notharctus [Primates].
——— *venticolus*†. Osborn. 519.

Nycteris [Chiroptera].
——— *arge*. Thomas. 727.

Nyctinomus [Chiroptera].
——— *bahamensis*. Rehn. 565.
——— *cisturus*. Thomas. 726.
——— *demonstrator*. Thomas. 726.
——— *fulminans*. Thomas. 726.
——— *jobensis*. Miller. 452.
——— *pusillus*. Miller. 452.
——— *thersites*. Thomas. 727.

Ochotona [Rodentia].
——— *kolymensis*. Allen. 14.

Octodontomys n. nom. [Rodentia]. Palmer. 528.

Odocoileus [Artiodactyla].
——— *battyi*. Allen. 17.
——— *sinaloae*. Allen. 18.

Olbodotes† n. gen [Rodentia]. Osborn. 519.
——— *copei*†. Osborn. 519.

Onychomys [Rodentia].
——— *pulcher*. Elliot. 195.
——— *ruidosae*. Stone & Rehn. 679.

Oreodon [Artiodactyla].
——— *robustum*†. Douglass. 179.

Oreotragus [Artiodactyla].
——— *schillingsi*. Neumann. 498.
——— *somalicus*. Neumann. 498.

Oryzomys [Rodentia].
——— *bolivaris*. Allen. 8.
——— *castaneus*. Allen. 8.
——— *perenensis*. Allen. 8.
——— *rivularis*. Allen. 8.
——— *sublineata*. Thomas. 722.

Ovis [Artiodactyla].
——— *cervina: cremnobates* n. subsp. Elliot. 195.
——— *dalli: kenaiensis* n. subsp. Allen. 10.
——— *vignei* var. *arkal* n. var. Lyddeker. 394.

Oxymycterus [Rodentia].
——— *delator*. Thomas. 718.
——— *microtis*. Allen. 15.
——— *quaestor*. Thomas. 711.

Pachyuromys [Rodentia].
——— *duprasi: natronensis* n. subsp. De Winton. 164.

Palaeolagus [Rodentia].
——— *brachydontus*†. Matthew. 427A.
——— *temnodon*†. Douglass. 179.

Palaeoreas [Artiodactyla].
——— *sinensis*†. Schlosser. 611.

Paraboselaphus† n. gen. [Artiodactyla]. Schlosser. 611.
——— *ameghinoi*†. Schlosser. 611.

Paracamelus† n. gen. [Artiodactyla]. Schlosser. 611.
——— *gigas*†. Schlosser. 611.

Paradoxurus [Carnivora].
——— *lignicolor*. Miller. 466.
——— *minor*. Bonhote. 73.

Parameles [Carnivora].
——— *ornata*. Thomas. 705.

Paramylodon † n. gen. [Edentata]. Brown. 96.
——— *nebrascensis* †. Brown. 96.

Peratherium [Marsupialia].
——— *titanelix* †. Matthew. 427A.

Perodipus [Rodentia].
——— *obscurus*. Allen. 17.

Perognathus [Rodentia].
——— *elibatus*. Elliot. 195.
——— *hispidus: maximus* n. subsp. Elliot. 195.
——— *mesembrinus*. Elliot. 195.
——— *pericallus*. Elliot. 195.

Peromyscus [Rodentia].
——— *beatae*. Thomas. 719.
——— *cecilii*. Thomas. 719.
——— *leucurus: gadovii* n. subsp Thomas. 719.
——— *metallicola*. Elliot. 195.
——— *parasiticus*. Elliot. 195.
——— *paulus*. Allen. 17.
——— *petrainus*. Elliot. 195.
——— *texanus: flaccidus* n. subsp. Allen. 17.

PETAURISTA [Rodentia].
——— *batuana*. Miller. 466.

PETROSORUS [Insectivora].
——— *venustus*. Thomas. 723.

PHYLLOTIS [Rodentia].
——— *cachinus*. Allen. 8.
——— *chacoënsis*. Allen. 8.

PLATYGEOMYS [Rodentia].
——— *tylorhinus : angustirostris* n. subsp. Merriam. 440.

PLATYGONUS [Artiodactyla].
——— *texanus* †. Gidley. 240.

PLESIADDAX [Artiodactyla].
——— *depereti* †. Schlosser. 611.

PRESBYTES [Primates].
——— *batuanus*. Miller. 466.
——— *rhionis*. Miller. 466.

PROCYON [Carnivora].
——— *psora : pacifica* n. subsp. Merriam. 442.

PROECHIMYS [Rodentia].
——— *vacillator*. Thomas. 718.

PROGENETTA [Carnivora].
——— *certa* †. Major. 411.

Prosciurus † n. subgen. [Rodentia]. Matthew. 427A.

Proterix n. gen. [Insectivora]. Matthew. 428.
——— *loomisi* †. Matthew. 428.

Protetraceros † n. gen. [Artiodactyla]. Schlosser. 611.
——— *gaudryi* †. Schlosser. 611.

Pseudobus † n. gen. [Artiodactyla]. Schlosser. 611.
——— *gracilidens* †. Schlosser. 611.
——— *intermedius* †. Schlosser. 611.

PTERODON [Carnivora].
——— *africanus* †. Andrews. 22.

PTEROPUS [Chiroptera].
——— *geminorum*. Miller. 466.

PUTORIUS [Carnivora].
——— *microtis*. Allen. 16.
——— *pygmaeus*. Allen. 14.
——— *streatori : leptus* n. subsp. Merriam. 439.

RATUFA [Rodentia].
——— *balae*. Miller. 496.
——— *conspicua*. Miller. 466.
——— *femoralis*. Miller. 465.
——— *insignis*. Miller. 466.
——— *laenata*. Miller. 465.
——— *masae*. Miller. 466.
——— *nigrescens*. Miller. 465.
——— *piniensis*. Miller. 466.

RANGIFER [Artiodactyla].
——— *osborni*. Allen. 11.

REITHRODON [Rodentia].
——— *cuniculoides : obscurus* n. subsp. Allen. 15.
——— *hatcheri*. Allen. 15.

REITHRODONTOMYS [Rodentia].
——— *albescens*. Cary. 121.
——— *klamathensis*. Merriam. 442.
——— *megalotis : sestinensis* n. subsp. Allen. 17.

RHINOCEROS [Perissodactyla].
——— *brancoi* †. Schlosser. 611.
——— *habereri* †. Schlosser. 611.

RHINOLOPHUS [Chiroptera].
——— *malayanus*. Bonhote. 73.

RHINOPOMA [Chiroptera].
——— *cystops*. Thomas. 717.
——— *muscatellum*. Thomas. 717.
——— *sumatrae*. Thomas. 717.

RHINOPITHECUS [Primates].
——— *brelichi*. Thomas. 701.

RHIPIDOMYS [Rodentia].
——— *roberti*. Thomas. 706.

RHITHRODONTOMYS [Rodentia].
——— *catalinae*. Elliot. 195.

RHOGEESSA [Chiroptera].
——— *io*. Thomas. 716.
——— *velilla*. Thomas. 716.

SARCOPHILUS [Marsupialia].
——— *satanicus* n. nom. Thomas. 713.

SCIUROPTERUS [Rodentia].
——— *mocrens*. Miller. 466.

SCIURUS [Rodentia].
——— *abassensis*. Neumann. 497.
——— *adangensis*. Miller. 466.
——— *altinsularis*. Miller. 466.
——— *aoris*. Miller. 466.
——— *aschanticus*. Neumann. 499.
——— *atratus*. Miller. 466.
——— *balae*. Miller. 466.
——— *bancarus*. Miller. 465.
——— *bentincanus*. Miller. 466.
——— *bilimitatus*. Miller. 466.
——— *boquetensis*. Nelson. 495.
——— *casensis*. Miller. 466.
——— *castus*. Thomas. 718.
——— *domclicus*. Miller. 466.
——— *erebus*. Miller. 465.
——— *fremonti : lychnuchus* n. subsp. Stone & Rehn. 679.
——— *ictericus*. Miller. 466.
——— *igniventris : toedifer* n. subsp. Thomas. 718.
——— *jeffersoni* †. Douglass. 179.
——— *kaffensis*. Neumann. 497.

Sciurus [Rodentia].
——— *keniae*. Neumann. 499.
——— *lancaveus's*. Miller. 466.
——— *lucas*. Miller. 466.
——— *mansalaris*. Miller. 465.
——— *matthaeus*. Miller. 466.
——— *novemlineatus*. Miller. 462A.
——— *nyansae*. Neumann. 497.
——— *pannorianus*. Miller. 466.
——— *pemangilensis*. Miller. 466.
——— *peninsularis*. Miller. 466.
——— *pin'ensis*. Miller. 466.
——— *pretiosus*. Miller. 465.
——— *pumilus*. Miller. 466.
——— *roberti*. Thomas. 724.
——— *robinsoni*. Bonhote. 73.
——— *rubeculus*. Miller. 466.
——— *saturatus*. Miller. 465.
——— *sullivanus*. Miller. 466.
——— *ubericolor*. Miller. 465.
——— *retustus*. Matthew. 427A.

Sigmodon [Rodentia].
——— *baileyi*. Allen. 17.
——— *hispidus : furvus* n. subsp. Bangs. 33A.
——— *puna*. Allen. 13.

Simias n. gen. [Primates]. Miller. 466.
——— *concolor*. Miller. 466.

Smilodectes† n. gen. [Primates]. Wortman. 799.

Smynthus [Rodentia].
——— *tianschanicus*. Zalenskij. 800.

Sorex [Insectivora].
——— *buxtoni*. Allen. 14.
——— *shastensis*. Merriam. 442.

Spalax [Rodentia].
——— *berytensis*. Miller. 463.
——— *dolbrogeae*. Miller. 463.
——— *fritschi*†. Nehring. 482.

Sphaerodactylus [Lacertilia].
——— *pacificus*. Stejneger. 671A.

Spilogale [Carnivora].
——— *angustifrons*. Howell. 310.
——— *angustifrons : tropicalis*. n. subsp. Howell. 314.
——— *tenuis*. Howell. 310.

Steneofiber [Rodentia].
——— *complexus*†. Douglass. 179.
——— *hesperus*†. Douglass. 179.

Stibarus [Artiodactyla].
——— *montanus*. Matthew. 427A.

Strepsiceros [Artiodactyla].
——— *annectens*†. Schlosser. 611.
——— *praecursor*†. Schlosser. 611.

Sus [Artiodactyla].
——— *hyotheroides*†. Schlosser. 611.
——— *microdon*†. Schlosser. 611.
——— *stehleni*†. Schlosser. 611.

Sylvilagus [Rodentia].
——— *minensis : chapadae*. Thomas. 706.

Symphalangus [Primates].
——— *klossii*. Miller. 466.

Synaptomys [Rodentia].
——— *andersoni*. Allen. 16.
——— *chapmani*. Allen. 16.

Tapirella n. nom. [Perissodactyla]. Palmer. 528.

Teanopus n. gen. [Rodentia]. Merriam. 440.
——— *phenax*. Merriam. 440.

Teonoma [Rodentia].
——— *cinerea : aeraia* n. subsp. Elliot. 195.

Thomomys [Rodentia].
——— *monticola : pinetorum* n. subsp. Merriam. 442.
——— *scapterus*. Elliot. 195.

Trichomys [Rodentia].
——— *fosteri*. Thomas. 711.

Tragelaphus [Artiodactyla].
——— *dama*. Neumann. 497.
——— *massaicus*. Neumann. 497.
——— *meneliki*. Neumann. 497.
——— *multicolor*. Neumann. 497.
——— *nigrinolatus*. Neumann. 497.

Tragoceros [Artiodactyla].
——— *gregarius*†. Schlosser. 611.
——— *kokeni*†. Schlosser. 611.
——— *spectabilis*†. Schlosser. 611.
——— *sylvaticus*†. Schlosser. 611.

Tragulus [Artiodactyla].
——— *amoenus*. Miller. 465.
——— *batuanus*. Miller. 466.
——— *brevipes*. Miller. 465.
——— *flavicollis*. Miller. 458.
——— *focalinus*. Miller. 458.
——— *formosus*. Miller. 458.
——— *jugularis*. Miller. 465.
——— *kanchil : everetti* n. subsp. Bonhote. 67.
——— *kanchil : hosei* n. subsp. Bonhote. 67.

Tragulus [Artiodactyla].
——— *kanchil: pierrei* n. subsp. Bonhote. 67.
——— *lampensis.* Miller. 458.
——— *lancavensis.* Miller. 458.
——— *lutescens.* Miller. 458.
——— *natunae.* Miller. 458.
——— *ravulus.* Miller. 458.
——— *rubeus.* Miller. 458.
——— *russeus.* Miller. 465.
——— *russulus.* Miller. 466.
——— *subrufus.* Miller. 458.
——— *virgicollis.* Miller. 458.

Trichys [Rodentia].
——— *macrotis.* Miller. 465.

Trocharion† n. gen. [Carnivora]. Major. 411.
——— *albanense*†. Major. 411.

Trochictis [Carnivora].
——— *depereti.* Major. 411.
——— *pusilla*†. Major. 411.

Tupaia [Insectivora].
——— *castanea.* Miller. 466.
——— *cervicalis.* Miller. 466.
——— *chrysogaster.* Miller. 466.
——— *palonis.* Miller. 466.
——— *tephrura.* Miller. 466.

Tursiops [Cetacea].
——— *fergusoni.* Lydekker. 402.

Tytthoconus n. nom. [Marsupialia]. Palmer. 528.

Urocyon [Carnivora].
——— *catalinea.* Merriam. 439.
——— *cinereoargenteus: borealis* n. subsp. Merriam. 439.
——— *elementae.* Merriam. 439.

Ursus [Carnivora].
——— *californicus: townsendi* n. subsp. Merriam. 412.
——— *hyladromus.* Elliot. 195.
——— *littoralis: sanctacruzae* n. subsp. Merriam. 439.

Vampyrops [Chiroptera].
——— *umbratus.* Lyon. 425.

Vulpes [Canidae].
——— *anadyrensis.* Allen. 14.
——— *arsipus.* Elliot. 195.
——— *sinensis.*† Schlosser. 611.

ERRATA IN FIRST ANNUAL ISSUE.

p. 145, *col.* 2, *l.* 30, *for* 5803 *read* 2403.

p. 216, *col.* 2, *l.* 35, *for* **Jackel** *read* **Jaekel**.

p. 264, *col.* 1, *l.* 25, *add* 0030 6027 *h.*

p. 277, *for* **Okami** *read* Ogami.

p. 323, *col.* 2, *l.* 23, *for* **49** *read* **44**.

p. 340, *col.* 2, *l.* 42, *for* **Thilo**, Riga *read* **Thilo**, Otto.

p. 375, *col.* 1, *l.* 39, *for* 5803 *read* 2403.

p. 490, *col.* 2, *insert Stichorchis* n. subgen. (*Cladorchis*). **Fischoeder**, F. Zool. Anz., Leipzig, **24**, 1901, (373).

p. 490, *col.* 2, *insert Taxorchis* n. subgen. (*Cladorchis*). **Fischoeder**, F. Zool. Anz., Leipzig, **24**, 1901, (373).

p. 498 *col.* 2, *l.* 23, *for fastosa read fastosum.*

p. 498, *col.* 2, *insert* **Stichorchis** [Trematoda]. n. subgen. Fischoeder, F. 1 36.

p. 499, *col.* 1, *insert* **Taxorchis** n. subgen. [Trematoda]. Fischoeder, F. 1636.

p. 511, *col.* 2, *l.* 26, *delete* "n. sp."

p. 512, *col.* 1, *ll.* 11–13, *delete Metopidia solidus.* Weschè, W. 5706.

p. 525, *col.* 2, *l.* 5, *insert D. gallewskii* n. sp.

p. 527, *col.* 2, *l.* 5, *for carasinus read ecrasinus.*

p. 527, *col.* 2, *l.* 21, *for Thelepus read Thelepus.*

p. 528, *col.* 2, *l.* 1, *for Acleosoma read Acolosoma.*

p. 529, *col.* 2, *l.* 26, *after* "*T. mansoni*, structure," *insert* "2 nn. spp."

p. 330, *col.* 2, *l.* 8, *for Aelosoma read Aeolosoma.*

p. 531, *col.* 1, *l.* 28, *for godlewski read godlewskii.*

p. 533, *col.* 1, *l.* 42, *for carasinus read cerasinus.*

p. 533, *col.* 2, *l.* 16, *for Thelepsus read Thelepus.*

p. 533, *col.* 2, *after l.* 33 *insert* (Typhoeus) *nicholsoni.* Beddard, F. E. 319.

p. 673, *col.* 1, *l.* 5, *for* "**Gadeau de Kerville**, H." *read* "**Mayer** in Gadeau de Kerville, H."

p. 673, *col.* 2, *l.* 15, *for* "**Gadeau de Kerville**, H." *read* "**Chevreux**, E. in Gadeau de Kerville, H."

p. 688, *col.* 1, *l.* 40, *for* "**Gadeau de Kerville**, H." *read* "**Mayer** in Gadeau de Kerville, H."

p. 691, *col.* 2, *l.* 14, *for* "**Gadeau de Kerville**, H." *read* "**Chevreux**, E. in Gadeau de Kerville, H."

p. 1022, *col.* 1, *l.* 14, *for* **Noei** *read* **Noel.**

p. 1024, *col.* 1, *l.* 21, *transfer Lindenius to SPHEGIDAE.*

p. 1025, *col.* 1, *l.* 32, *transfer the paper by* **Baer** *to SPHEGIDAE.*

p. 1025, *col.* 2, *l.* 26, *transfer Selandria to TENTHREDINIDAE.*

p. 1162, col. 1, *l.* 5, *for Stercobalanus read Stercobalanus.*

p. 1163, *col.* 1, *l.* 15, *for Stercobalanus read Stercobalanus.*

p. 1312, *col.* 2, *delete the entry under* **Cambridge Entomological Club.**

p. 1470, *col.* 1, *after l.* 23 *insert* (Sciurus) nn. spp. S. America. **Thomas**, O. Ann. Mag. Nat. Hist., London, (Ser. 7), **7**, 1901, (192–196) nn. spp. British Guiana. **Thomas**, O. Ann. Mag. Nat. Hist., London, (Ser. 7), **8**, 1901, (147–148).

p. 1475, *col.* 2, *l.* 1, *for* AELUROTHIUM *read* AELUROTHERIUM.

p. 1476, *col.* 2, *after l.* 21 *insert* (CROCIDURA) *maeropygmaea.* Miller, G. S., *Jr.* 3583.

p. 1479, *col.* 2, *l.* 16, *for* **Oodectes** *read* **Ödectes.**

p. 1480, *col.* 2, *l.* 11, *for* (PALAESINOPA) *beadnelli read* (PALAEOMASTODON) *beadnelli.*

p. 1482, *col.* 1, *l.* 38, *for linguanensis read lingungensis.*

p. 1482, *col.* 2, *l.* 10, *for kuchinensis read kuchingensis.*

p. 1482, *col.* 2, *l.* 29, *for baliolus read balliolus*

p. 1482, *col* 2, *l.* 41, *for opisthotoma read opisthotona.*

p. 1482, *omitted from list of new* Sciuri: *S. thaiwanensis: centralis* n. subsp. *roberti* n. subsp. Bonhote, J. L. 527; *S. baluensis; S. baluensis: sufusus* n. subsp. Bonhote. J. L. 528; *S. griseogena: meridensis* n. subsp., *S. otinus.* Thomas, O. 5318; *S. quelchi; S. macconelli.* Thomas, O. 5324.

p. 1483, *col.* 1, *l.* 4, *for Eurgnotus read eurynotus.*

p. 1483, *col.* 1, *l.* 30, *for surdastus read surdaster.*

p. 1483, *col.* 1, *l.* 32, *for postacae read postasae.*

ERRATA IN SECOND ANNUAL ISSUE.

Part I, *p.* 350, *col.* 2, *l.* 27. Part II, *p.* 180, *col.* 2, *l.* 11; *p.* 182, *col.* 1, *l.* 14; *p.* 203, *col.* 2, *l.* 29; *p.* 204, *col.* 2, *l.* 42; *p.* 214, *col.* 1, *l.* 17; *p.* 222, *col.* 1, *l.* 39; *p.* 223, *col.* 2, *l.* 25, *for* Rep. Brit. Ass. *read* Guide to Belfast . . . prepared for . . . the British Association.

p. 371, *col.* 1, *l.* 15, *for* **Appelløf**, A[nders] *read* **Appelløf**, A[dolf].

p. 384, *col.* 1, *l.* 7, *for* **Appelløf**, A[nders] *read* **Appelløf**, A[dolf].

LIST OF JOURNALS WITH ABBREVIATED TITLES

Adelaide, S. Aust., Trans. R. Soc.	Transactions of the Royal Society of S. Australia, Adelaide.	6 S. Aus.
Agric. Exp. Sta., California, Berkeley, Bull.	Bulletin of the Agricultural Experiment Station, California, Berkeley.	— U.S.
Agric. Exp. Sta., Delaware, Newark, Bull.	Bulletin of the Agricultural Experiment Station, Delaware, Newark.	— U.S.
Agric. Exp. Sta., Florida, Lake City, Bull.	Bulletin of the Agricultural Experiment Station, Florida, Lake City.	— U.S.
Agric. Exp. Sta , Georgia, Experiment, Bull.	Bulletin of the Agricultural Experiment Station, Georgia, Experiment.	— U.S.
Agric. Exp. Sta , Kentucky, Lexington, Bull.	Bulletin of the Agricultural Experiment Station, Kentucky, Lexington.	— U.S.
Agric. Exp. Sta., Maine, Orono, Bull.	Bulletin of the Agricultural Station, Maine, Orono.	— U.S.
Agric. Exp. Sta., Massachusetts, Amheret, Bull.	Bulletin of the Agricultural Experiment Station, Massachusetts, Amherst.	— U.S.
Agric. Exp. Sta., Michigan, Agricultural College, Bull.	Bulletin of the Agricultural Experiment Station, Michigan Agricultural College.	— U.S.
Agric. Exp. Sta., Mississippi, Agricultural College, Bull.	Bulletin of the Agricultural Experiment Station, Mississippi Agricultural College.	— U.S.
Agric. Exp. Sta., Missouri, Missouri Station, Bull.	Bulletin of the Agricultural Experiment Station, Missouri, Missouri Station.	— U.S.
Agric. Exp. Sta., New Hampshire, Durham, Bull.	Bulletin of the Agricultural Experiment Station, New Hampshire, Durham.	— U.S.
Agric. Exp. Sta., New Jersey, New Brunswick, Bull.	Bulletin of the Agricultural Experiment Station, New Jersey, New Brunswick.	— U.S.
Agric. Exp. Sta., New Mexico, Mesilla Park, Bull.	Bulletin of the Agricultural Experiment Station, New Mexico, Mesilla Park.	— U.S.
Agric. Exp. Sta., New York (Cornell station), Ithaca, Bull.	Bulletin of the Agricultural Experiment Station, New York (Cornell station), Ithaca.	— U.S.
Agric. Exp. Sta., New York (State Station), Geneva, Bull.	Bulletin of the Agricultural Experiment Station, New York (State station), Geneva.	— U.S.
Agric. Exp. Sta., Oklahoma, Stillwater, Bull.	Bulletin of the Agricultural Station, Oklahoma, Still Water.	— U.S.

Agric. Exp. Sta., Oregon, Corvallis, Rep.	Report of the Agricultural Experiment Station, Oregon, Corvallis.	— U.S.
Agric. Exp. Sta., Wyoming, Laramie, Bull.	Bulletin of the Agricultural Experiment Station, Wyoming, Laramie.	— U.S.
Agric. Gaz., Sydney, N.S.W.	Agricultural Gazette, Sydney, N.S.W. ...	1 N.S.W.
Agricolt. Ticinese, Lugano	L'Agricoltore ticinese. Lugano. 8vo.	3 Swi.
Albany Univ., N.Y., Bull. St. Mus.	Bulletin of the New York State Museum. University of the State of New York, Albany, N.Y.	4 U.S.
Albany Univ., N.Y., Mem. St. Mus.	Memoirs of the New York State Museum. University of the State of New York, Albany, N.Y.	5 U.S.
Albany Univ., N.Y., Rep. St. Mus.	Report of the New York State Museum. University of the State of New York, Albany, N.Y.	6 U.S.
Állatt. Közlem., Budapest...	Állattani Közlemények, Budapest. [Zoologische Mittheilungen, Budapest.]	32 Hun.
Allg. Fischereiztg, München	Allgemeine Fischerei-Zeitung. red. v. Hofer u. Weigelt. München. [½ monatl.]	24 Ger.
Allg. Forstztg, Frankfurt a. M.	Allgemeine Forst- und Jagd-Zeitung, hrsg. v. Lorey. Frankfurt a. M. [monatl.] Nebst Supplement: Jahresbericht über Veröffentlichungen und wichtigere Ereignisse im Gebiete des Forstwesens etc.	25 Ger.
Allg. Zs. Ent., Neudamm	Allgemeine Zeitschrift für Entomologie, hrsg. v. Schroeder u. Lehmann. Neudamm. [½ monatl.]	34 Ger.
Amer. Geol., Minneapolis, Minn.	American Geologist, Minneapolis, Minnesota.	13 U.S.
Amer. Inv., Washington, D.C.	The American Inventor. Washington, D.C.	569 U.S
Amer. J. Anat., Baltimore, Md.	The American Journal of Anatomy, Baltimore, Md.	14 U.S.
Amer. J. Physiol., Boston, Mass.	American Journal of Physiology, Boston, Mass.	17 U.S.
Amer. J. Sci., New Haven, Conn.	American Journal of Science, New Haven, Conn.	19 U.S.
Amer. Nat., Boston, Mass.	The American Naturalist, Boston, Mass.	21 U.S
Amer. Ornith., Worcester, Mass.	American Ornithology. For the Home and School. Worcester, Mass.	570 U.S.
Amsterdam, Proc. Sci. K. Akad. Wet.	Proceedings of the Sections of Sciences, Koninklijke Akademie van Wetenschappen, Amsterdam. 8vo.	3 Hol.
Amsterdam, Verh. K. Akad. Wet., 2e Sect.	Verhandelingen der Koninklijke Akademie van Wetenschappen, 2e Sectie (Natuurhistorische, Geologische en Medische Wetenschappen), Amsterdam. 8vo.	6 Hol.

Amsterdam, Versl. Wis. Nat. Afd. K. Akad. Wet.	Verslagen der Vergaderingen van de Wis- en Natuurkundige Afdeeling der Koninklijke Akademie van Wetenschappen, Amsterdam. 8vo.	7 Hol.
Anat. Anz., Jena	Anatomischer Anzeiger. Centralblatt für die gesammte wissenschaftliche Anatomie, hrsg. v. v. Bardeleben. Jena. [zwanglos.] Nebst Ergänzungsheften.	40 Ger.
Anat. Hefte, Wiesbaden ...	Anatomische Hefte, hrsg. v. Merkel u. Bonnet. Wiesbaden. I. Abth.: Arbeiten aus anatomischen Instituten. [5 H. jährl.] 2. Abth.: Ergebnisse der Anatomie und Entwicklungsgeschichte. [jährl.]	41 Ger.
Ann. chim. phys., Paris ..	Annales de chimie et de physique. Réd. MM. Berthelot, Freidel, Mascart, Moissan. Paris. [mensuel.]	44 Fr.
Ann. Inst. Pasteur, Paris...	Annales de l'Institut Pasteur. Dir. Duclaux. Paris. [mensuel].	60 Fr.
Ann. Mag. Nat. Hist., London	Annals and Magazine of Natural History, London.	7 U.K.
Ann. Natphilos., Leipzig ..	Annalen der Naturphilosophie. Leipzig.	1285 Ger.
Ann. oftalm., Pavia ..	Annali di Oftalmologia, Pavia	10 It.
Ann. sci. nat. (Zool.) Paris	Annales des sciences naturelles, parait en deux parties: 1° Zoologie et Paléontologie, comprenant l'anatomie, la physiologie, la classification et l'histoire naturelle des animaux. Dir. E. Perrier. Paris. [12 numéros par an.] 2° Botanique, comprenant l'anatomie, la physiologie, la classification, des végétaux. Dir. Van Tieghem. Paris. [12 numéros par an.]	77 Fr.
Ann. Scot. Nat. Hist., Edinburgh	Annals of Scottish Natural History, Edinburgh and London.	8 U.K.
Annaberg, Ber. Ver. Natk.	Bericht des Annaberg-Buchholzer Vereins für Naturkunde. Annaberg. [5 jährl.]	17 Ger.
Annot. Zool. Jap., Tōkyō ...	Annotationes Zoologicae Japonenses. *European languages.* Tōkyō, Japan.	1 Jap.
Arch. anat. microsc., Paris	Archives d'anatomie microscopique. Dir. Ranvier et Henneguy. Paris. [trimestr.]	107 Fr.
Arch. Anat. Physiol., Leipzig	Archiv für Anatomie und Physiologie, hrsg. v. His und Engelmann. Leipzig. 1. Anatomische Abtheilung u. d. T.: Archiv für Anatomie und Entwicklungsgeschichte, hrsg. v. His. 2. Physiologische Abtheilung u. d. T.: Archiv für Physiologie, hrsg. v. Engelmann. [jede Abth. 2 monatl.]	52 Ger.

Arch. Anthr., Braunschweig.	Archiv für Anthropologie, hrsg. v. Ranke. Braunschweig. [½ jährl.]	53 Ger.
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Arch. Hyg., München ...	Archiv für Hygiene, hrsg. v. Buchner etc. München. [8 H. jährl.]	69 Ger.
Arch. ital. biol., Paris ...	Archives italiennes de biologie, publiées en français par A. Mosso, contenant le résumé des travaux scientifiques italiens. Paris [3 fascicules par an.]	117 Fr.
Arch. ital. biol., Torino ...	Archives italiennes de biologie, Torino.	16 It.
Arch. ital. ginec., Napoli ...	Archivio italiano di ginecologia, Napoli.	244 It.
Arch. Java Suiker., Soerabaia	Archief voor de Java-Suikerindustrie, Soerabaia, 8vo.	9 Hol.
Arch. Math., Leipzig ...	Archiv. der Mathematik und Physik. Leipzig. [½ jährl.]	76 Ger.
Arch. Math. Naturv., Kristiania	Archiv for Mathematik og Naturvidenskab, Kristiania.	3 Nor.
Arch. mikr. Anat., Bonn. ...	Archiv für mikroskopische Anatomie und Entwicklungsgeschichte, hrsg. v. Hertwig, la Valette St. George u. Waldeyer. Bonn. [4–8 H jährl.]	77 Ger.
Arch. Natg., Berlin ...	Archiv für Naturgeschichte, hrsg. v. Hilgendorf. Berlin. [6 H. jährl.]	78 Ger.
Arch. parasit., Paris ...	Archives de parasitologie. Réd. R. Blanchard. Paris. [trimestr.]	129 Fr.
Arch. path. Anat., Berlin ...	Archiv für pathologische Anatomie und Physiologie und für klinische Medicin, hrsg. v. Virchow. Berlin. [monatl.]	80 Ger.
Arch. pharmacodynam., Paris	Archives internationales de pharmacodynamie. Paris. [bimestr.]	130 Fr.
Arch. Přírod. Výzk. Čech., Prag	Archiv pro Přírodovědecký Výzkum Čech. Praha. [Archiv der Naturhistorischen Landesdurchforschung von Böhmen. Tschechische Ausgabe von 26.]	27 Aus.
Arch. Protistenkunde, Jena	Archiv für Protistenkunde, hrsg. v. F. Schaudinn. Jena.	1284 Ger.
Arch. sc. biol., St. Peterbury	Архивъ біологическихъ наукъ. С.-Петербургъ [Archives des sciences biologiques. St.-Pétersbourg].	4 Rus.
Arch. Sci. Phys., Genève ...	Archives des sciences physiques et naturelles. Genève, Lausanne et Paris. 8vo.	10 Swi.

Arch. Thierheilk., Berlin ...	Archiv für wissenschaftliche und praktische Thierheilkunde, hrsg. v. Dammann etc. Berlin. [2 monatl.]	87 Ger.
Arch. veterin. nauk, St. Peterburg	Архивъ ветеринарныхъ наукъ. С.-Петербургъ [Archives des sciences vétérinaires. St.-Pétersbourg].	5 Rus.
Archæol. J., London ...	Archæological Journal, London	11 U.K.
Archives polon. biol. méd., Lwów	Archives polonaises des Sciences biologiques et médicales, red. H. Kadyi, Lwów, 8vo [irregular]	61 Pol.
Archivio farmac., Roma ...	Archivio di farmacologia sperimentale e scienze affini, Roma.	271 It.
Archivio ital. anat. embriol., Firenze	Archivio italiano d'anatomia e d'embriologia, Firenze.	273 It.
Archivio ostetricia, Napoli	Archivio d'ostetricia e ginecologia, Napoli.	20 It.
Archivio sc. med., Torino ...	Archivio per le scienze mediche, Torino	22 It.
Atl. Slope Nat., Narbeth, Pa.	The Atlantic Slope Naturalist, Narbeth, Pa.	571 U.S.
Augsburg, Ber. naturc. Ver.	Bericht des naturwissenschaftlichen Vereins für Schwaben und Neuburg, früher naturhistorischen Vereins in Augsburg. Augsburg. [mehrjähr.]	96 Ger.
Auk, Cambridge, Mass. ..	The Auk (American Ornithologists' Union), New York, N.Y.	29 U.S.
Aus. d. Heimat, Bremerhaven	Aus der Heimat—für die Heimat. Beiträge zur Naturkunde des Gebietes zwischen Elb- und Wesermündung. Jahrbuch des Vereins für Naturkunde an der Unterweser. Bremerhaven. [jährl.]	98 Ger.
Aus d. Heimath, Stuttgart	Aus der Heimath. Organ des deutschen Lehrer-Vereins für Naturkunde. Stuttgart. [2 monatl.] Nebst Beilage: Schriften des deutschen Lehrervereins für Naturkunde. [jährl.]	100 Ger.
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Austin, Trans. Texas Acad. Sci.	Transactions of the Texas Academy of Science, Austin.	32 U.S.
Autun, Bul. soc. sci. nat. ...	Bulletin de la société des sciences naturelles. Autun (Saône-et-Loire).	149 Fr.
Avicult. Mag., Brighton ...	The Avicultural Magazine, being the Journal of the Avicultural Society for the study of foreign and British birds, Brighton.	18 U.K.
Aviculteur, Paris	Aviculteur (l'), Dir. de Perpigna. Paris. [mensuel.]	156 Fr.
Baltimore, Md., Johns Hopkins Univ. Cir.	Johns Hopkins University Circulars, Baltimore, Md.	36 U.S.

Baltimore, Md., Mem. Biol. Lab., Johns Hopkins Univ.	Memoirs from the Biological Laboratory of the Johns Hopkins University, Baltimore, Md.	37 U.S.
Baltimore, Trans. Md. Acad. Sci.	Transactions of the Maryland Academy of Science, Baltimore.	39 U.S.
Basel, Abh. Schweiz. Pal. Ges.	Abhandlungen der schweizerischen paläontologischen Gesellschaft. Mémoires de la Société paléontologique suisse. Basel & Genf. 4to.	2 Swi.
Basel, Verh. Natf. Ges. ...	Verhandlungen der naturforschenden Gesellschaft in Basel. Basel. 8vo.	11 Swi.
Batav.a, Geneesk. Tijdschr Ned. Ind.	Geneeskundig Tijdschrift voor Nederlandsch-Indië uitgegeven door de Vereeniging ter bevordering der Geneeskundige Wetenschappen in Nederlandsch-Indië, Batavia, 8vo.	10 Hol.
Beitr. path. Anat., Jena ...	Beiträge zur pathologischen Anatomie und zur allgemeinen Pathologie, red. v. Ziegler. Jena. [6 H. jährl.]	137 Ger.
Belfast, Rep. Nat. F. Cl. ..	Report and Proceedings of the Belfast Naturalists' Field Club, Belfast.	24 U.K.
Belg. colon., Bruxelles ..	La Belgique coloniale (Bruxelles). Hebdomadaire.	15 Bel.
Ber. Fischereiver. Ostpr., Königsberg	Berichte des Fischerei-Vereins für die Provinz Ostpreussen. Königsberg. [zwanglos.]	142 Ger.
Ber. Landw. Ostafrika. Heidelberg.	Berichte über Land- und Forstwirtschaft in Deutsch-Ostafrika. Hrsg. v. Kais. Gouvernement Dar-es-Salâm. Heidelberg. [Zwangl.]	1316 Ger.
Bergen, Naturen	Naturen, Bergen	6 Nor.
Bergen, Norsk Fisket ..	Norsk Fiskeritidende, Bergen	7 Nor.
Bergens Mus. Aarb. ..	Bergens Museums Aarbog, Bergen ...	8 Nor.
Berkeley, Univ. Cal., Bull. Dept. Geol.	University of California. Bulletin of the Department of Geology, Berkeley.	40 U.S.
Berkley, Univ. Cal., Chron.	The University Chronicle. University of California, Berkeley, Cal.	568 U.S.
Berkeley, Univ. Cal., Pub. Physiol.	University of California Publications. Physiology. Berkeley, Cal.	558 U.S.
Berkeley, Univ. Cal., Pub. Zool.	University of California Publications. Zoology. Berkeley, Cal.	545 U.S.
Berlin, Abh. Ak. Wiss. ...	Abhandlungen der kgl. Akademie der Wissenschaften zu Berlin. Berlin. [jährl.]	152 Ger.
Berlin, Arb. biol. Abth. Gesundhtsamt	Arbeiten aus der biologischen Abtheilung für Land- und Forstwirthschaft am kaiserlichen Gesundheitsamte. Berlin. [zwanglos.]	156 Ger.
Berlin, Arb. Gesundhtsamt	Arbeiten aus dem kaiserlichen Gesundheitsamte. Berlin	160 Ger.
Berlin, Ber. D. bot. Ges. .	Berichte der deutschen botanischen Gesellschaft. Berlin. [monatl.]	164 Ger.

Berlin, Flugbl. Gesundhtsamt.	Flugblätter des kaiserlichen Gesundheitsamts, biologische Abtheilung für Land- und Forstwirthschaft. Berlin. [zwanglos.]	169 Ger.
Berlin, Jahrb. geol. Landesanst.	Jahrbuch der kgl. preussischen geologischen Landesanstalt und Bergakademie. Berlin. [jährl.]	171 Ger.
Berlin, Mitt. D. Landw. Ges.	Mittheilungen der deutschen Landwirthschafts-Gesellschaft. Berlin. [½ monatl.]	173 Ger.
Berlin, Mitt. D. Seefischereiver.	Mittheilungen des deutschen Seefischereivereins, red. v. Herwig. Berlin. [monatl.]	174 Ger.
Berlin, SitzBer. Ak. Wiss.	Sitzungsberichte der kgl. preussischen Akademie der Wissenschaften. Berlin. [wöch.]	182 Ger.
Berlin, SitzBer. Ges. natf. Freunde	Sitzungsberichte der Gesellschaft naturforschender Freunde zu Berlin. Berlin. [jährl. in zwangl. H.]	183 Ger.
Berlin, Veröff. Inst. Meereskr.	Veröffentlichungen des Instituts für Meereskunde und des geographischen Instituts an der Universität Berlin, hrsg. v. Frdr. v. Richthofen. Berlin.	1307 Ger.
Berlin, Zs. Ver. D. Zuckerind.	Zeitschrift des Vereins der deutschen Zuckerindustrie, red. v. Alexander Herzfeld. Berlin.	1294 Ger.
Berliner ent. Zs.	Berliner entomologische Zeitschrift, hrsg. v. d. entomologischen Verein zu Berlin. Berlin. [¼ jährl.]	208 Ger.
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Berliner thierärztl. Wochenschr.	Berliner thierärztliche Wochenschrift, hrsg. v. Dieckerhoff etc. Berlin. [wöch.] Nebst Beilage: Mittheilungen für Veterinärbeamte.	214 Ger.
Bern, Mitt. Natf. Ges. ...	Mitteilungen der naturforschenden Gesellschaft in Bern. Bern. 8vo.	15 Swi.
Bibliogr. anat., Nancy ...	Bibliographie anatomique. Dir. A. Nicolas. Paris-Nancy. [mensuel.]	172 Fr.
Bienenwirthsch. Centralbl., Hannover	Bienenwirthschaftliches Centralblatt, red. v. Lehzen. Hannover. [½ monatl.]	223 Ger.
Biol. Centr.-Amer., London	Biologia Centrali-Americana, London, 4to.	27 U.K.
Bl. Aquarienkunde, Magdeburg	Blätter für Aquarien- und Terrarienkunde, hrsg. v. Bade. Magdeburg. [½ monatl.]	227 Ger.
Bombay, J. Nat. Hist. Soc.	Journal of the Bombay Natural History Society, Bombay	5 Ind.
Bonn, SitzBer. Ges. Natk.	Sitzungsberichte der niederrheinischen Gesellschaft für Natur- und Heilkunde zu Bonn. Bonn.	1295 Ger.

Bonn, Verh. nathist. Ver.	Verhandlungen des naturhistorischen Vereins der preussischen Rheinlande, Westfalens u. d. Reg.-Bez. Osnabrück. Nebst Sitzungsberichten der niederrheinischen Gesellschaft für Natur- und Heilkunde zu Bonn. Bonn. [jährl. in je 2 Hälften.]	238 Ger.
Bordeaux, Actes soc. linn.	Actes de la société linnéenne de Bordeaux (Gironde). [trimestr.]	184 Fr.
Boston, Mass., Mem. Soc Nat. Hist.	Memoirs of the Boston Society of Natural History, Boston, Mass.	54 U.S.
Boston, Mass., Proc. Amer. Acad. Arts Sci.	Proceedings of the American Academy of Arts and Sciences, Boston, Mass	60 U.S.
Boston, Mass., Proc. Soc. Nat. Hist.	Proceedings of the Boston Society of Natural History, Boston, Mass.	61 U.S.
Bot. Centralbl., Jena, Beihefte	Botanisches Centralblatt. Referirendes Organ, hrsg. v. Uhlworm u. Kohl. Cassel. [wöch.] Nebst Beiheften.	241 Ger.
Boulder, Univ. Colo. Stud.	The University of Colorado Studies. Boulder, Colo.	572 U.S.
Braunschweigische landw. Ztg.	Braunschweigische landwirthschaftliche Zeitung, red. v. Pommer. Braunschweig. [wöch.]	251 Ger.
Bremen, Abh. natw. Ver. ...	Abhandlungen, hrsg. v. naturwissenschaftlichen Verein zu Bremen. Bremen. [1-2 H. jährl.]	253 Ger.
Breslau, Jahresber. Ges. vaterl. Cultur	Jahresbericht der schlesischen Gesellschaft für vaterländische Cultur. Breslau. [jährl.]	258 Ger.
Breslau, Mitt. landw. Inst.	Mittheilungen der landwirthschaftlichen Institute der kgl. Universität Breslau. Berlin. [zwanglos.]	260 Ger.
Brit. Med. J., London ...	British Medical Journal, London ...	44 U.K.
Brooklyn, N.Y., Inst. Arts Sci., Cold Spring Harbor Monog.	Cold Spring Harbor Monographs. Brooklyn Institute of Arts and Sciences. Brooklyn, N.Y.	573 U.S.
Brünn, Verh. Natf. Ver. ..	Verhandlungen des Naturforschenden Vereines in Brünn. Brünn. [jährl.]	61 Aus.
Bruxelles, Ann. Soc. ent. Belgique	Annales de la Société entomologique de Belgique (Bruxelles). Mensuel.	23 Bel.
Bruxelles, Ann. Soc. roy. malacol.	Annales de la Société royale malacologique de Belgique (Bruxelles).	183 Bel.
Bruxelles, Bul. Soc. roy. linn.	Bulletin de la Société royale linnéenne de Bruxelles (Bruxelles). Mensuel.	47 Bel.
Bruxelles, Bul. Soc. roy. malac.	Bulletin des séances de la Société royale malacologique de Belgique (Bruxelles). Mensuel.	48 Bel.
Bruxelles, Mém. Soc. entom. Belgique	Mémoires de la Société entomologique de Belgique (Bruxelles).	52 Bel.
Bryn Mawr, Pa., Bryn Mawr Coll. Monogr.	Bryn Mawr College Monographs. Bryn Mawr, Pa.	546 U.S.
Budapest, Ann. Hist.-Nat. Mus. Nat. Hung.	Annales Historico-Naturales Musei Nationalis Hungarici.	34 Hun.

Buitenzorg, Meded. Plant.	Mededeelingen uit's Lands plantentuin te Buitenzorg, Batavia, 8vo.	18 Hol.
Bul. Acad. méd., Paris ...	Bulletin de l'académie de médicine. Paris. [hebdomad.]	200 Fr.
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Cambridge, Mass., Proc. New Engl. Zool. Cl.	Proceedings of the New England Zoological Club, Cambridge, Mass.	83 U.S.
Cambridge, Proc. Phil. Soc.	Proceedings of the Cambridge Philosophical Society, Cambridge.	48 U.K.
Cape Town, Ann. S. Afric. Mus.	Annals of the South African Museum, Cape Town.	5 S.A.
Cape Town, Marin. Invest.	Marine Investigations in South Africa, Cape Town.	6 S.A.
Cape Town, Trans. S. Afric. Phil. Soc.	Transactions of the South African Philosophical Society, Cape Town. [Includes Proceedings.]	7 S.A.
Carinthia II, Klagenfurt	Carinthia II., Mitteilungen des Naturhistorischen Landesmuseums für Kärnten. Red. v. Karl Frauscher. Klagenfurt. [2 monatl.]	67 Aus.
Catania, Atti Acc. Gioenia	Atti dell'Accademia Gioenia di scienze naturali, Catania.	48 It.

Catania, Bull. Acc. Gioenia	Bullettino delle sedute dell' Accademia Gioenia di scienze naturali, Catania.	49 It.
Caus. sci., Paris ...	Causeries scientifiques de la société zoologique de France. Paris. [irrégul.]	257 Fr.
Centralbl. Augenheilk., Leipzig	Centralblatt für praktische Augenheilkunde, hrsg. v. Hirschberg. Leipzig. [monatl.]	273 Ger.
Centralbl. Bakt., Jena ...	Centralblatt für Bakteriologie, Parasitenkunde und Infektionskrankheiten, hrsg. v. O[skar] Uhlworm. Jena. 1. Abth.: Medicinischhygienische Bakteriologie. [1 Bd zwangl. ersch. Originale, 2 Bde Referate zu je 26 Nrn jährl.] 2. Abth.: Allgemeine, landw.-technol. etc. Bakteriologie. [2 Bde zu je 26 Nrn jährl.] Jena (G. Fischer).	274 Ger.
Centralbl. Jagd-Liebh., Zürich	Centralblatt für Jagd- und Hundeliebhaber. Zürich. 4to.	22 Swi.
Centralbl. Min., Stuttgart ..	Centralblatt für Mineralogie, Geologie und Paläontologie, hrsg. v. Bauer etc. Stuttgart. (½ monatl.)	285 Ger.
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Charĭkov, Trd. Obšč. ispyt. prir.	Труды Общества испытателей природы при Императорскомъ Харьковскомъ Университетѣ. Харьковъ [Travaux de la Société des naturalistes de l'Université Impériale de Kharkov].	22 Rus.
Chasse et Pêche, Bruxelles	Acclimatation, revue des éleveurs. Organe officiel de la Société royale Saint Hubert pour l'amélioration des races canines en Belgique. (Bruxelles). Hebdom.	– Bel.
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Schweiz. Landw. Zeitschr., Aarau	Schweizerische landwirtschaftliche Zeitschrift. Aarau. 8vo.	99 Swi.
Sci. Amer., New York, N.Y.	Scientific American, New York, N.Y. ...	426 U.S.
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Science, New York, N.Y....	Science, New York, N.Y.	429 U.S.
Scot. Geog. Mag., Edinburgh	Scottish Geographical Magazine, Edinburgh.	399 U.K.
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St. Peterburg, Izv. Lěsn. Inst.	Извѣстія С.-Петербургскаго Лѣснаго Института. С.-Петербургъ [Bulletin de l'Institut forestier de St.-Pétersbourg].	257 Rus.
St. Peterburg, Mém. Ac. Sc.	Записки Императорской Академіи Наукъ по физико-математическому отдѣленію. С.-Петербургъ [Mémoires de l'Académie Impériale des Sciences. Classe des sciences physiques et mathématiques. St.-Pétersbourg].	266 Rus.
St. Peterburg, Trav. Soc. nat.	Труды Императорскаго С.-Петербургскаго Общества естествоиспытателей. С.-Петербургъ [Travaux de la Société Impériale des naturalistes de St.-Pétersbourg].	284 Rus.
St. Peterburg, Trd. Troick.-Kĭacht. Otd. Russ. Geogr. Obšč.	Труды Троицкосавско-Кяхтинскаго отдѣл. Приамурскаго отдѣла Императорскаго русскаго Географическаго Общества. Москва [Travaux de la subdivision de Troizkosavsk-Kjachta de la Section du territoire de l'Amour de la Société Impériale russe de Géographie. Moscou].	155 Rus.
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Torino, Mem. Acc. sc. ...	Memorie della R. Accademia delle scienze, Torino.	228 It.
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Tropenpflanzer, Berlin ...	Der Tropenpflanzer. Zeitschrift für tropische Landwirthschaft, hrsg. v. Warburg u. Wohltmann. Berlin. [monatl.] Nebst Beiheften.	1058 Ger.
Truro, J. R. Inst. Cornwall	Journal of the Royal Institution of Cornwall, Truro.	420 U.K.
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Venezia, Atti Ist. ven. ...	Atti del R. Istituto veneto di scienze, lettere ed arti, Venezia.	235 It.
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Wädensweil, Jahresb. Versuchsstation, Zürich	Jahresbericht der deutsch-schweizerischen Versuchsstation und Schule für Obst-, Wein-, und Gartenbau in Wädensweil. Zürich. 8vo.	118 Swi.
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Washington, D.C., Proc. Biol. Soc.	Proceedings of the Biological Society of Washington, Washington, D.C.	488 U.S.
Washington, D.C., Proc. Ent. Soc.	Proceedings of the Entomological Society of Washington, Washington, D.C.	489 U.S.
Washington, D.C., Rep. U.S. Com. Fish.	U. S. Commission of Fish and Fisheries. Report of the Commissioner, Washington, D.C.	493 U.S.
Washington, D.C., Smithsonian Inst., Misc. Collect.	Smithsonian Institution. Smithsonian Miscellaneous Collections, Washington, D.C.	497 U.S.
Washington, D.C., Smithsonian Inst., Nation. Mus. Proc	Smithsonian Institution. U.S. National Museum. Proceedings, Washington, D.C.	500 U.S.

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Washington, D.C., U. S. Dept. Agric. Off. Exp. Sta. Rec.	U. S. Department of Agriculture. Office of Experiment Stations. Experiment Station Record, Washington, D.C.	511 U.S.
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Washington, D.C., U. S. Dept. Int. Bull. Geol. Surv.	Department of the Interior. Bulletin of the United States Geological Survey, Washington, D.C.	516 U.S.
Weidmann, Braunschweig	Der Weidmann. Blätter für Jäger und Jagdfreunde, red. v. Müller-Liebenwalde. Berlin - Charlottenburg. [wöch.]	1106 Ger.
Wellington, Trans. and Proc. N. Zeal. Inst.	Transactions and Proceedings of the New Zealand Institute, Wellington.	— N.Z.
Wien, Abh. Geogr. Ges. ...	Abhandlungen der k. k. Geographischen Gesellschaft in Wien. Red. v. August Böhm Edlen von Böhmersheim. Wien. [zwanglos.]	403 Aus.
Wien, Abh. Geol. ReichsAnst.	Abhandlungen der k. k. Geologischen ReichsAnstalt. Wien. [zwanglos.]	404 Aus.
Wien Ann. NatHist. Hofmus.	Annalen des k. k. Naturhistorischen Hofmuseums. Redig. von Franz Steindachner. Wien. [½ jährl.]	408 Aus.
Wien, Arb. Zool. Inst. Univ.	Arbeiten aus den Zoologischen Instituten der Universität Wien und der Zoologischen Station in Triest. Herausgeg. v. Karl Grobben und Berthold Hatschek. Wien. [zwanglos.]	411 Aus.
Wien, JahrBer. Entom. Ver.	Jahresbericht des Wiener Entomologischen Vereines. Wien. [jährl.]	430 Aus.
Wien, Schr. Ver. Verbr. Natw. Kenntn.	Schriften der Vereins zur Verbreitung Naturwissenschaftlicher Kenntnisse in Wien. [Nebentitel:] Populäre Vorträge aus allen Fächern der Naturwissenschaft. Herausgegeben vom Vereine zur Verbreitung Naturwissenschaftlicher Kenntnisse in Wien. Wien. [jährl., bezw. in zwanglosen Heften].	471 Aus.
Wien, Verh. ZoolBot. Ges.	Verhandlungen der k. k. Zoologisch-Botanischen Gesellschaft in Wien. Red. v. A[nton] Handlirsch. Wien. [10 H. jährl.]	479 Aus.
Wiesbaden, Jahrb. Ver. Natk.	Jahrbücher des nassauischen Vereins für Naturkunde. Wiesbaden. [jährl.]	1121 Ger.
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Würzburg, Sitzber. physik. Ges.	Sitzungsberichte der physikalisch-medicinischen Gesellschaft zu Würzburg. Würzburg. [jährl. in zwangl. H.]	1140 Ger.
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Wszechświat, Warszawa ...	Wszechświat, tygodnik poświęcony naukom przyrodniczym, red. Br. Znatowicz, Warszawa. 4to. [weekly.]	57 Pol.
Ymer, Stockholm	Ymer. Tidskrift utgifven af Svenska Sällskapet för Antropologi och Geografi. Stockholm. 8vo.	61 Swe.
Yorks. Proc. Geol. Polyt. Soc.	Proceedings of the Yorkshire Geological and Polytechnic Society, Halifax.	430 U.K.
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Zürich, Mitt. Schweiz. Forstl. Versuchsw.	Mitteilungen der schweizerischen Centralanstalt für das forstliche Versuchswesen. Zürich. 8vo.	123 Swi.
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International Catalogue of Scientific Literature.

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[To be used in connexion with Geography, Geology, Botany, Zoology, etc.]

1.—MAIN DIVISIONS.

a. The Earth as a whole.
b. Land as a whole.
c. Ocean as a whole.
d. Europe and Mediterranean Islands.
e. Asia and Malay Archipelago, Celebes and Timor inclusive.
f. Africa and Madagascar.
g. North America to boundary between United States and Mexico.
h. Mexico, Central and South America, and West Indian Islands.
i. Australia, Tasmania and New Zealand, with New Guinea, Gilolo, and Moluccas to west, and including the Solomon Islands, New Hebrides, and New Caledonia to east.
k. Arctic: Greenland and the area north of the Arctic Circle, or of the coasts of Continental America, Asia, and Europe, whichever is farther north.
l. Atlantic and Islands from Arctic Circle to Lat. 45° S.—the southern portion bounded on the east by the meridian 20° E. of Greenwich, south of the coast of Africa; and on the west by the coast of South America.
m. Indian Ocean and Islands limited on the south by Lat. 45° S.; on the west by the meridian 20° E. of Greenwich; on the east by the coast of Australia and the meridian 147° E. of Greenwich.
n. Pacific and Islands from the Arctic Circle to Lat. 45° S., and between the meridian 147° E. of Greenwich and the coast of South America.
o. Antarctic: the area south of 45° S. except the Falkland Islands and the southern parts of South America and New Zealand; but including the islands of New Amsterdam and St. Paul.

N.B.—As a general rule, Islands more than 100 miles from the continent to be classed as Oceanic, unless specially excepted.

2. SUB-DIVISIONS.

d. Europe and Mediterranean Islands.

da. Scandinavia: Sweden, Norway, Denmark, Iceland, Faeroes.
db. Russia in Europe.
dc. German Empire.
dd. Holland; Belgium; Luxemburg.
de. British Islands.
df. France and Corsica.
dg. Spain and Portugal.
dh. Italy: Sicily and Sardinia.
di. Switzerland.
dk. Austria-Hungary (Bosnia and Herzegovina included).
dl. Balkan Peninsula (Turkey in Europe, Roumania, Bulgaria, Servia, Montenegro, and Greece).
dm. Mediterranean and Islands (excluding Sicily, Sardinia, and Corsica).
dn. Black Sea.
do. Baltic and Islands.

e. Asia and Malay Archipelago.

ea. Asiatic Russia.
eb. China and Dependencies: Tibet; Corea.
ec. Japanese Islands; Formosa.
ed. Cochin China: Tonquin, Annam.
ee. Siam.
ef. British India: Himalaya; Burmah; Ceylon.
eg. Malay Peninsula from Isthmus of Kra and Archipelago to Wallace's line, including Celebes and Timor, with the Philippines and China Sea.
eh. Persia; Afghanistan; Baluchistan.
ei. Asiatic Turkey; Arabia.
ek. Caspian.
el. Persian Gulf.

f. Africa and Madagascar.

fa. Mediterranean States—Marocco, Algiers, Tunis, Tripoli.
fb. N.E. Africa; Egypt and Nile Valley to Lat. 10° N.; Abyssinia; African Coast of Red Sea.
fc. Sahara and the French Sudan; Darfur, etc.
fd. West Africa, from Marocco to the Congo.
fe. Congo State and Angola.
ff. East Africa, from the Southern border of *fb* to the Zambezi; Socotra.
fg. South Africa—South of the Zambezi and of the boundary between Portuguese and German S.W. Africa.
fh. Madagascar and Comoro Group.
fi. Red Sea and Islands.

g. North America.

ga. Alaska.
gb. Canada as a whole.
gc. Canadian Dominion West (Yukon, British Columbia, Mackenzie, Athabasca, Alberta, Saskatchewan, Assiniboia).
gd. Canadian Dominion East; Newfoundland.
ge. The Laurentian Lakes.
gf. United States as a whole.
gg. North Eastern United States, East of Mississippi (Maine, Vermont, New Hampshire, New York, Massachusetts, Connecticut, Rhode Island, Pennsylvania, New Jersey, Ohio, Michigan, Wisconsin, Illinois, Indiana).
gh. South Eastern United States, East of Mississippi.
gi. Western United States, West of Mississippi.

h. Central and South America and West Indies.

ha. Mexico.
hb. Central America: Guatemala; Honduras; British Honduras; Salvador; Nicaragua; Costa Rica.
hc. West Indian Islands; Caribbean Sea; Gulf of Mexico.
hd. Guiana—British, Dutch, and French; Venezuela; Trinidad.
he. Columbia; Ecuador.
hf. Peru.
hg. Bolivia.
hh. Brazil.
hi. Argentina; Uruguay and Paraguay.
hk. Chili.
hl. Tierra del Fuego and neighbouring islands; Falkland Islands.
hm. The Andes.

i. Australasia.

ia New Guinea with Islands from Wallace's line, including Gilolo, Amboina, Ceram.
ib. Bismarck Archipelago (New Britain, etc., to Solomon Islands inclusive).
ic. Australia as a whole.
id. Queensland.
ie. New South Wales.
if. Victoria.
ig. South Australia.
ih. West Australia.
ii. Tasmania.
ik. New Zealand.
il. New Caledonia, New Hebrides, and Loyalty Islands.

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k. Arctic.

ka. Arctic Ocean.
kb. Greenland.
kc. Archipelago north of North America.
kd. Islands north of Europe and Asia.

l. Atlantic.

la. North Atlantic Ocean and Islands not otherwise specified.
lb. Azores; Canaries; Madeira; Cape Verde.
lc. South Atlantic and Islands.

m. Indian Ocean.

ma. Ocean and Islands N. of Equator.
mb. Ocean and Islands S. of Equator, including Mascarene Islands, Amsterdam, and St. Paul.

n. Pacific.

na. North Pacific Ocean (North of Equator).
nb. South Pacific Ocean (South of Equator).
nc. Behring Sea and Islands (Aleutian Archipelago, etc.).
nd. Sandwich Islands and scattered groups N. of Equator and E. of 180°.
ne. Ladrone, Pelew, Caroline and Marshall Groups, with other Islands N. of Equator and W. of 180°.
nf. Fiji Islands, Friendly Islands, Samoa, Ellice, Phœnix Islands, etc., west of Meridian 160° W. of Greenwich.
ng. Galapagos Islands.
nh. Society Islands, Low Archipelago, Marquesas, and other Islands of S. Pacific, east of Meridian 160° W. of Greenwich.

o. Antarctic.

oa. Antarctic Continent as a whole.
ob. S. Georgia, Sandwich Groups, and other Islands S. of S. Atlantic.
oc. Prince Edward Island, Crozets, Kerguelen, and other Islands S. of Indian Ocean.
od. Islands to Southward and South-east of New Zealand and Area South of Pacific.

Internationaler Katalog der naturwissenschaftlichen Litteratur.

I.—TOPOGRAPHISCHE CLASSIFICATION.

[In Verbindung mit Geographie, Geologie, Botanik, Zoologie etc., zu benutzen.]

1.— HAUPT-ABSCHNITTE.

a. Die Erde als Ganzes.
b. Das Festland als Ganzes.
c. Der Ocean als Ganzes.
d. Europa und die Inseln im Mittelländischen Meere.
e. Asien und der Malayische Archipel, einschliesslich Celebes und Timor.
f. Africa und Madagaskar.
g. Nord-Amerika bis zur Grenze zwischen den Vereinigten Staaten und Mexiko.
h. Mexiko, Central- und Süd-Amerika, Westindische Inseln.
i. Australien, Tasmanien und Neu-Seeland, mit Neu-Guinea, Gilolo und Molukken nach Westen, und mit Salomo-Inseln, Neuen Hebriden und Neu-Caledonien nach Osten.
k. Arktisches Gebiet: Grönland und der vom Polarkreis umschlossene Raum, insbesondere die jenseits desselben gelegenen Kütenländer von Amerika, Asien und Europa.
l. Atlantisches Gebiet mit seinen Inseln vom Polarkreis bis 45° S. Br.; der südliche Theil wird südliche von Afrika nach Osten durch den Meridian 20° O. [v. Gr.] begrenzt und reicht im Westen bis zur Küste von Süd-Amerika.
m. Der Indische Ocean mit seinen Inseln reicht im Süden bis 45° S. Br.; im Westen bis 20° O. L., im Osten bis zur Küste von Australien und dem Meridian 140° O. L.
n. Pacifisches Gebiet mit seinen Inseln, vom Nordpolarkreis bis 45° S. Br., im südlichen Theil begrenzt durch den Meridian 147° O. L. nach Westen, und die Küste von Süd-Amerika nach Osten.
o. Antarktisches Gebiet, umfassened das Gebiet südlich von 45° S. Br., mit Ausschluss der Falklands-Inseln, de südlichen Theile von Süd-Amerika und Neu-Seelands, aber einschliesslich der Inseln Neu-Amsterdam und St. Paul.

N.B.—Allgemeine Regel: Inseln, die mehr als 100 englische Meilen (160 Kilometer) vom Festland entfernt sind, sind, falls nicht besonders ausgenommen, als oceanisch zu classifiziren.

2. UNTERABTHEILUNGEN.

d. Europa und die Inseln im Mittelländischen Meere.

da. Skandinavien: Schweden, Norwegen, Dänemark, Island Farör.
db. Des Europäische Russland.
dc. Das Deutsche Reich.
dd. Holland; Belgien; Luxemburg.
de. Die Britischen Inseln.
df. Frankreich und Corsica.
dg. Spanien und Portugal.
dh. Italien, met Sicilien und Sardinien.
di. Die Schweiz.
dk. Oesterreich-Ungarn (einschliesslich Bosnien und Herzegowina).
dl. Die Balkan-Halbinsel (Europäische Türkei, Rumänien, Bulgarien, Serbien, Montenegro, Griechenland).
dm. Das Mittelländische Meer mit seinen Inseln (mit Ausschluss von Sicilien, Sardinien und Corsica).
dn. Das Schwarze Meer.
do. Die Ostsee mit ihren Inseln.

e. Asien und der Malayische Archipel.

ea. Asiatisches Russland.
eb. China und zugehörige Länder; Tibet; Korea.
ec. Japanische Inseln; Formosa.
ed. Cochinchina; Tonking, Annam.
ee. Siam.
ef. Britisch-Indien, einschliesslich Himalaya, Burma, Ceylon.
eg. Malayische Halbinsel südlich vom Istmus von Kra, und Malayischer Archipel bis zu Wallace's Linie, einschliesslich Celebes und Timor; Philippinen; Chinesisches Südmeer.
eh. Persien; Afghanistan; Belutschistan.
ei. Asiatische Türkei; Arabien.
ek. Das Kaspische Meer.
el. Der Persische Golf.

f. Afrika und Madagaskar.

fa. Die Mittelmeer-Staaten: Marokko, Algier, Tunis, Tripolis.
fb. Nordost-Afrika: Egypten und Nilthal bis 10° N. Br.; Abessynien; afrikanische Küste des Rothen Meeres.
fc. Die Sahara und der französische Sudan; Darfur etc.
fd. West-Afrika, von Marokko bis zum Kongo.
fe. Kongo-Staat und Angola.
ff. Ostafrika, von der südlichen Grenze von *fb.* bis zum Sambesi; Sokotra.
fg. Süd-Afrika, südlich des Sambesi und der Grenze zwischen Portugiesisch und Deutsch Südwest-Afrika.
fh. Madagaskar und Komoren.
fi. Das Rothe Meer mit seinen Inseln.

g. Nord-Amerika.

ga. Alaska.
gb. Canada als Ganzes.
gc. West-Canadisches Gebiet: Yukon, Britisch-Columbia, Mackenzie, Athabasca, Alberta, Saskatchewan, Assiniboia.
gd. Ost-Canadisches Gebiet; Neufundland.
ge. Gebiet der Laurentischen Seen.
gf. Vereinigte Staaten als Ganzes.
gg. Nordosten der Vereinigten Staaten, östlich vom Mississippi (Maine, Vermont, New Hampshire, New York, Massachusetts, Connecticut, Rhode Island, Pennsylvania, New Jersey, Ohio, Michigan, Wisconsin, Illinois, Indiana).
gh. Südosten der Vereinigten Staaten, östlich vom Mississippi.
gi. Westen der Vereinigten Staaten, westlich vom Mississippi.

h. Central-Amerika, Süd-Amerika, West-Indien.

ha. Mexiko.
hb. Central-Amerika: Guatemala, Honduras; Britisch-Honduras; Salvador; Nicaragua; Costa Rica.
hc. Westindische Inseln; Caraibisches Meer; Golf von Mexiko.
hd. Guyana: Britisch, Niederländisch und Französisch; Venezuela; Trinidad.
he. Columbia; Ecuador.
hf. Peru.
hg. Bolivia.
hh. Brasilien.
hi. Argentinien; Uruguay und Paraguay.
hk. Chile.
hl. Feuerland und benachbarte Inseln; Falkland Inseln.
hm. Die Anden.

i. Australasien.

ia. Neu-Guinea, nebst Inseln im Osten von Wallace's Linie, einschliesslich Gilolo, Amboina, Ceram.
ib. Bismarck-Archipel (Neu-Pommern etc. bis Salomo-Inseln).
ic. Australien als Ganzes.
id. Queensland.
ie. Neu-Süd-Wales.
if. Victoria.
ig. Süd-Australien.
ih. West-Australien.
ii. Tasmanien.
ik. Neu-Seeland.
il. Neu-Caledonien, Neue Hebriden und Loyalty Inseln

k. Arktisches Gebiet.

ka. Der Arktische Ocean.
kb. Grönland.
kc. Archipel nördlich von Nord-Amerika.
kd. Inseln nördlich von Europa und Asien.

l. Atlantisches Gebiet.

la. Der Nordatlantische Ocean mit seinen Inseln, soweit sie nicht anderweit eingereiht sind.
lb. Azoren; Kanaren; Madeira; Cap Verde.
lc. Der Südatlantische Ocean mit seinen Inseln.

m. Indischer Ocean.

ma. Ocean und Inseln nördlich vom Aequator.
mb. Ocean und Inseln südlich vom Aequator, einschliesslich Maskarenen, Neu-Amsterdam und St. Paul.

n. Pacifisches Gebiet.

na. Nordpacifischer Ocean (nördlich vom Aequator).
nb. Südpacifischer Ocean (südlich vom Aequator).
nc. Berings Meer, nebst Inseln (Aleuten-Archipel etc.).
nd. Sandwich-Inseln und zerstreute Gruppen nördlich von Aequator und östlich vom 180. Grad.
ne. Ladronen-, Palau-, Carolinen- und Marshall-Gruppen, nebst andern Inseln nördlich vom Aequator und westlich vom 180. Grad.
nf. Fidschi-Inseln, Freundschafts-Inseln, Samoa, Ellice-Inseln, Phönix-Inseln etc., westlich vom Meridian 160° W. L.
ng. Galapagos-Inseln.
nh. Gesellschafts-Inseln, Niedrige Inseln, Marquesas- und andere Inseln des südlichen Pacifischen Oceans, östlich vom Meridian 160° W. L.

o. Antarctisches Gebiet.

oa. Der Antarktische Kontinent als Ganzes.
ob. Süd-Georgien, Sandwich-Gruppen, und andere Inseln südlich vom südatlantischen Gebiet.
oc. Prince Edward-Insel, Crozet-Inseln, Kerguelen- und andere Inseln südlich vom Indischen Ocean.
od. Inseln südlich und südöstlich von Neu-Seeland, und Gebiet südlich des Pacifischen Oceans.

Catalogue International de la Littérature Scientifique.

CLASSIFICATION TOPOGRAPHIQUE.

[Cette classification sera appliquée à la géographie, à la géologie, à la botanique, à la zoologie, etc.]

I—GRANDES DIVISIONS.

a. Données d'ensemble relatives au globe terrestre.
b. Données d'ensemble relatives aux continents.
c. Données d'ensemble relatives aux océans.
d Europe et îles méditerranéennes.
e. Asie et Archipel Malais, Célèbes et Timor inclus.
f. Afrique et Madagascar.
g. Amérique du Nord [en prenant comme limite celle qui sépare les Etats-Unis du Mexique].
h. Le Mexique, Amérique centrale et méridionale avec les Antilles.
i. Australie, Tasmanie et Nouvelle Zélande avec la Nouvelle Guinée, Gilolo et les Moluques à l'ouest, les îles Salomon, les Nouvelles Hébrides et la Nouvelle Calédonie à l'est.
k. Régions arctiques : Grœnland et surface polaire s'étendant des côtes américaines, asiatiques et européennes à l'extrême nord.
l. Atlantique avec les îles comprises entre le cercle polaire arctique et le 45° de lat. S. Partie sud de l'Atlantique limitée à l'est par le méridien 20° E. (Greenwich), au sud de l'Afrique ; et à l'ouest par le côte de l'Amérique du sud.
m. Océan Indien avec les îles situées dans l'espace limité dans le sud par le 45° de lat. S. ; à l'ouest par le méridien 20° E. (Greenwich) ; dans l'est par la côte australienne et le méridien 147° E. (Greenwich).
n. Le Pacifique avec les îles comprises, en latitude, du cercle polaire arctque au 45° de lat. S. ; en longitude, du méridien 147° E. (Greenwich) à la côte de l'Amérique du sud.
o. Régions antarctiques : depuis le 45° de lat. S., moins les Falkland, la pointe sud de l'Amérique méridionale et la Nouvelle Zélande, mais en y comprenant les îles St. Paul et Nouvelle Amsterdam.

N.B.—En général les îles qui se trouvent à plus de 160 à 185 kilomètres du continent sont classées comme îles océaniques, à moins que le contraire ne soit stipulé spécialement.

II.—SUBDIVISIONS.

d. Europe et îles méditerranéennes.

da. Scandinavie : Suède, Norvège, Danemark, Islande, îles Feroë.
db. Russie d'Europe.
dc. Empire Germanique.
dd. Hollande ; Belgique ; Luxembourg.
de. Iles Britanniques.
df. France et Corse.
dg. Espagne et Portugal.
dh. Italie ; Sicile et Sardaigne.
di. Suisse.
dk. Autriche-Hongrie (Bosnie et Herzégovine inclus).
dl. Pénisule Balkanique (Turquie d'Europe, Roumanie, Bulgarie, Serbie, Monténégro et Grèce).
dm. Méditerranée avec ses îles (moins la Sicile, la Sardaigne, et la Corse).
dn. Mer Noire.
do. La Baltique et ses îles.

e. Asie et Archipel Malais.

ea. Asie russe.
eb. Chine et dépendances ; Thibet ; Corée.
ec. Archipel du Japon ; Formose.
ed. Cochinchine. Tonkin. Annam. Cambodge.
ee. Siam.
ef. Indes Britanniques : Himalaya ; Burma, Ceylan.
eg. La Pénisule Malaise depuis l'isthme de Kra ; et l'Archipel Malais jusqu'à la ligne séparative de Wallace, y compris Célèbes, Timor, les Philippines et la Mer de Chine.
eh. Perse ; Afghanistan ; Bélouchistan.
ei. Turquie d'Asie ; Arabie.
ek. Mer Caspienne.
el. Golfe persique.

f. Afrique et Madagascar.

fa. Pays méditerranéens : Maroc, Algérie, Tunisie, Tripoli.
fb. N.E. Africain ; Egypte et la vallée du Nil depuis le 10° de lat. N. ; Abyssinie ; côte africaine de la Mer Rouge.
fc. Le Sahara et le Soudan français ; Darfour, etc.
fd. Ouest africain, du Maroc au Congo.
fe. Etat du Congo et Angola.
ff. Est africain, depuis la bordure sud de *fb* au Zambèze, Socotora.

fg. Sud africain—Au sud du Zambèze et de la limite entre les possessions portugaises et allemandes du sud-ouest de l'Afrique.
fh. Madagascar et groupe des Comores.
fi. La Mer Rouge et ses îles.

g. Amérique du Nord.

ga. Alaska.
gb. Le Canada dans son entier.
gc. Puissance du Canada de l'ouest (Yukon, Colombie Britannique, Mackenzie, Athabasca, Alberta, Saskatchewan, Assiniboia).
gd. Puissance du Canada de l'est ; Terre neuve.
ge. Région des grands lacs laurentiens.
gf. États-Unis.
gg. États-Unis du Nord-Est, à l'est du Mississipi (Maine, Vermont, New Hampshire, New York, Massachusetts, Connecticut, Rhode Island, Pennsylvanie, New Jersey, Ohio, Michigan, Wisconsin, Illinois, Indiana).
gh. États-Unis du sud-est, à l'est du Mississipi.
gi. États-Unis de l'ouest, à l'ouest du Mississipi.

h. Amérique centrale et méridionale ; Indes occidentales.

ha. Mexique.
hb. Amérique centrale : Guatemala ; Honduras ; Honduras britannique ; Salvador ; Nicaragua ; Costa Rica.
hc. Antilles ; Mer Caraïbe ; Golfe du Mexique.
hd. Guyanes britannique, hollandaise, et française ; Vénézuéla ; île de Trinité.
he. Colombie. Ecuador.
hf. Pérou.
hg. Bolivie.
hh. Brésil.
hi. République Argentine ; Uruguay et Paraguay.
hk. Chili.
hl. Terre de feu et îles voisines ; les Falkland (Malouines).
hm. Les Andes.

i. Australie.

ia. Nouvelle Guinée avec les îles de la ligne séparative de Wallace, en y comprenant Gilolo, Amboine, Ceram.
ib. Archipel de Bismarck (Nouvelle Bretagne avec les les Salomon).
ic. L'Australie en son entier
id. Queensland.
ie Nouvelle Galles du sud
if. Victoria.
ig. Australie du sud.

ih. Australie occidentale.
ii. Tasmanie.
ik. Nouvelle Zélande.
il. Nouvelle Calédonie, Nouvelles Hébrides et les îles Loyauté.

k. Régions arctiques.

ka. Océan arctique.
kb. Groenland.
kc. Archipel nord de l'Amérique du Nord.
kd. Iles au nord d'Europe et d'Asie (Spitzberg, etc.).

l. Atlantique.

la. Océan Atlantique septentrional et les îles qui n'ont pas encore été spécifiées.
lb. Açores; Canaries; Madère; Cap Vert.
lc. Atlantique méridional et ses îles.

m. Océan Indien.

ma. Océan et les îles au nord de l'Equateur.
mb. Océan et les îles au sud de l'Equateur, avec les Mascareignes et les îles Amsterdam et St. Paul.

n. Pacifique.

na. Pacifique septentrional (au nord de l'Equateur).
nb. Pacifique méridional (au sud de l'Equateur).
nc. Mer de Behring et ses îles (Aléoutiennes . . . etc.).
nd. Iles Sandwich, avec les groupes situés au nord de l'Equateur et à l'est du 180°.
ne. Mariannes, Pelew, archipel des Carolines et de Marshall, avec les autres îles situées au nord de l'Equateur et à l'ouest du 180°.
nf. Iles Fidji, îles des Amis (Tonga, Samoa, Ellice, Phénix et autres) situées à l'ouest du méridien 160° O. (Greenwich).
ng. Iles Galapagos.
nh. Iles de la Société, Pomoutou, Marquises et autres îles du Pacifique méridional à l'est du méridien 160° O. (Greenwich).

o. Régions antarctiques.

oa. Continent antarctique dans son entier.
ob. Géorgie du Sud, groupe des Sandwichs et autres îles au S. de l'Atlantique méridional.
oc. Iles du Prince Edouard, Crozet, Kerguelen et autres îles au S. de l'Océan Indien.
od. Iles au sud et au sud-est de la Nouvelle Zélande et régions méridionales du Pacifique.

Catalago Internazionale della Letteratura Scientifica.

I.—CLASSIFICAZIONE TOPOGRAFICA.

[Da usarsi in rapporto con la Geografia, Geologia, Botanica, Zoologia, ecc.]

1.—DIVISIONI PRINCIPALI.

a. La Terra nel suo complesso.
b. Le terre emerse.
c. L' oceano nel suo complesso.
d. Europa e Isole del Mediterraneo.
e. Asia e Arcipelago Malese, comprese Celebes e Timor.
f. Africa e Madagascar.
g. America settentrionale fino al limite tra gli Stati Uniti e il Messico.
h. Messico, America Centrale e Meridionale, e Indie Occidentali.
i. Australia. Tasmania e Nuova Zelanda colla Nuova Guinea, Gilolo e Molucche verso Ponente, le Salomone, le Nuove Ebridi e la Nuova Caledonia verso Levante.
k. Regione Artica: Groenlandia e l' area a Nord del Circolo Polare, ovvero a Nord delle coste dell' America continentale, dell' Asia e dell' Europa.
l. L' Atlantico e le sue Isole dal Circolo Polare Artico alla Lat. di 45° S., limitato nella sua parte meridionale oltre la costa Africana dal 20° E. da Greenwich, ad Est; e dalla costa dell' America meridionale ad Ovest.
m. L' Oceano Indiano e le sue Isole, limitato a sud dal 45° di Lat. S., a Ponente del meridiano 20° E. di Greenwich; a Levante dalla costa dell' Australia e dal 147° E. da Greenwich.
n. Il Pacifico e le sue Isole dal Circolo Polare Artico alla Lat. di 45° S., e tra il 147° meridiano E. da Greenwich e le coste dell' America meridionale.
o. Regione Antartica: cioè l'area meridionale limitata dal 45° S., eccetto le Isole Falkland e le parti meridionali dell' America del Sud e della Nuova Zelanda; comprendendovi però le isole di Nuova Amsterdam e S. Paolo.

N.B.—Come regola generale, le isole lontane più di 100 miglia inglesi (160 chilometri) dal continente devono essere classificate come oceaniche, salvo speciali eccezioni.

2.—SUDDIVISIONI.

d. Europa e Isole del Mediterraneo.

da. Scandinavia: Svezia, Norvegia, Danimarca, Islanda, Fär Öer
db. Russia Europea.
dc. Impero Germanica.
dd. Olanda; Belgio; Lussembergo.
de. Isole Britanniche.
df. Francia e Corsica.
dg. Spagna e Portogallo.
dh. Italia: Sicilia e Sardegna.
di. Svizzera.
dk. Austria-Ungheria (comprese Bosnia ed Erzegovina).
dl. Penisola, Balcanica (Turchia Europea, Rumania, Bulgaria, Servia, Montenegro e Grecia).
dm. Mediterraneo e Isole (salvo la Sicilia, la Sardegna e la Corsica).
dn. Mar Nero.
do. Il Baltico e le sue Isole.

e. Asia e Arcipelago Malese.

ea. Russia Asiatica.
eb. Cina e dipendenze: Tibet; Corea.
ec. Isole del Giappone; Formosa.
ed. Coccincina: Tonchino, Annam.
ee. Siam.
ef. India Britannica: Himalaya; Birmania; Ceylon.
eg. Penisola Malese dall' Istmo di Kra e Arcipelago Malese fino alla linea, di Wallace, comprendendovi Celebes e Timor colle Filippine e il Mar della Cina.
eh. Persia; Afghanistan; Belucistan.
ei. Turchia Asiatica; Arabia.
ek. Il Caspio.
el. Golfo Persica.

f. Africa e Madagascar.

fa. Stati Mediterranei—Marocco, Algeri, Tunisi, Tripoli.
fb. Africa del N.E.; Egitto e Vallatta del Nilo fino al 10° di Lat. N.; Abissinia; Coste dell' Africa sul Mar Rosso.
fc. Sahara e Sudan Francese; Darfur, ecc.
fd. Africa occidentale dal Marocco al Congo.
fe. Stato del Congo e Angola.
ff. Africa orientale dal limite indicato in *fb* al Zambesi; Socotra.
fg. Africa australe dal Zambesi e dal confine tra l' Africa Portoghese e l' Africa Germanica del S.W.
fh. Madagascar e Gruppo delle Comoro.
fi. Il Mar Rosso e le sue Isole.

g. America Settentrionale.

ga. Alaska.
gb. Il Canada in generale.
gc. Dominio del Canada occidentale (Yukon, Columbia Britannica, Mackenzie, Athabasca, Alberta, Saskatchewan, Assiniboia).
gd. Dominio del Canada orientale; Terranova.
ge. I Laghi Laurenziana.
gf. Gli Stati Uniti in generale.
gg. Stati Uniti del Nord-Est, ad E. del Mississippi (Maine, Vermont, New Hampshire, New York, Massachusetts, Connecticut, Rhode Island, Pennsylvania, New Jersey, Ohio, Michigan, Wisconsin, Illinois, Indiana).
gh. Stati Uniti del Sud-Est, ad E. del Mississippi.
gi. Stati Uniti occidentali, ad W. del Mississippi.

h. America Centrale e Meridionale e Indie Occidentali.

ha. Messico.
hb. America Centrale; Guatemala; Honduras Honduras Britannico; Salvador; Nicaragua; Costa Rica.
hc. Indie occidentali; Mar dei Caribi; Golfo del Messico.
hd. Guaiana—Britannica, Olandese e Francese; Venezuela; Trinidad.
he. Columbia; Ecuador.
hf. Perù.
hg. Bolivia.
hh. Brasile.
hi. Argentina; Uruguay e Paraguay.
hk. Cile.
hl. Terra del Fuoco e Isole vicine; Isole Falkland.
hm. Le Ande.

i. Australia e Oceania.

ia. Nuova Guinea colle Isole dalla linea di Wallace, comprendendovi Gilolo (Halmahera) Amboina, Seram.
ib. Arcipelago di Bismarck (Nuova Britannia. ecc., fino alle Solomone inclusivamente).
ic. Australia in generale.
id. Queensland.
ie. Nuova Galles del Sud.
if. Victoria.
ig. Australia meridionale.
ih. Australia occidentale.
ii. Tasmania.
ik. Nuova Zelanda.
il. Nuova Caledonia, Nuove Ebridi, e Isole Loyalty.

k. Regione Artica.

ka. Oceano Artico.
kb. Groenlandia.
kc. Arcipelago Nord Americano.
kd. Isole a N. dell' Europa e dell' Asia.

l. Oceano Atlantico.

la. Oceano Atlantico settentrionale e sue Isole, non indicate altrove.
lb. Azorre; Canarie; Madera; Isole del Capo Verde.
lc. Atlantico meridionale e sue Isole.

m. Oceano Indiano.

ma. Oceano e Isole a Nord dell' Equatore.
mb. Oceano e Isole a Sud dell' Equatore, comprendendovi le Mascarene, Amsterdam e S. Paolo.

n. Oceano Pacifico.

na. Pacifico del Nord (a N. dell' Equatore).
nb. Pacifico del Sud (a S. dell' Equatore).
nc. Mar di Behring e sue Isole (Aleutine, ecc.).
nd. Isole Sandwich e Gruppi sparsi a N. dell' Equatore e ad E. del 180°.
ne. Isole dei Ladroni, Pelew, Caroline e Marshall, con altre Isole a N. dell' Equatore e ad ovest del 180°.
nf. Isole Figi, degli Amici, Samoa, Ellice, Fenice, ecc., ad ovest del 160° W. di Greenwich.
ng. Isole Galapagos.
nh. Isole della Società, Arcipelago di Low, Marchesi e altre Isole del Pacifico meridionale, ad Est del meridiano 160° W. da Greenwich.

o. Regione Antartica.

oa. Regione antartica in generale.
ob. Georgia australe, Gruppo delle Sandwich e altre Isole a Sud dell' Atlantico meridionale.
oc. Isole del Principe Edoardo, Crozets, Kerguelen e altre Isole a Sud dell' Oceano Indiano.
od. Isole a Sud e a Sud-Est della Nuova Zelanda e Regione a Sud del Pacifico.