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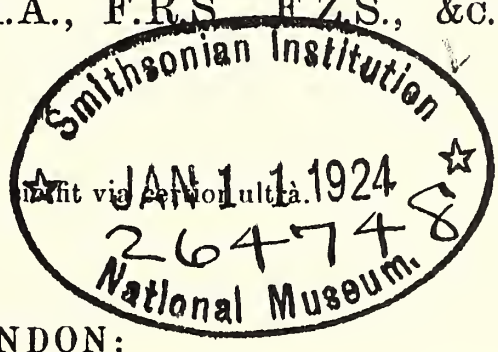
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EXPLANATORY.

This Volume is printed in the Divisions enumerated on p. iv.

The pagination of each Division is separate, and is given at the left-hand top corner of the pages. The number and name of the Division is given as a heading on each left-hand page. The Registration Numbers when of importance are given at the right-hand top corner of the right-hand pages. The date 1920 corresponding to the bulk of the literature indexed is given at the right-hand top corner of the left-hand page.

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

The Literature indexed is mainly that of 1920 but includes entries for earlier years that have been received too late for inclusion in previous volumes.

On account of the international situation, the Royal Society of London found itself unable to undertake at present any financial responsibility for any volumes of the International Catalogue subsequent to those of the Fourteenth Annual Issue.

Under these circumstances the Zoological Society of London arranged to undertake the issue of the present volume, which is the fifty-seventh of the Zoological Record, and would have been N. Zoology of the Twentieth Annual Issue of the International Catalogue. Its preparation has been conducted as closely as possible on the model of the previous volumes prepared jointly by the International Catalogue and the Zoological Society.

It can now be purchased from the Zoological Society of London at the price of £2, either in the binding of the Zoological Record or in series with the International Catalogue.

Volume 58, dealing with the Literature of 1921, is in preparation; it will be printed and issued if the replies to the explanatory circular issued to subscribers encourage the Society to undertake the heavy financial responsibility.

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I. COMPREHENSIVE ZOOLOGY

BY

D. SHARP

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

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ARRANGED BY

H. M. WOODCOCK, D.Sc.

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[Vacant.]

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III. PORIFERA OR SPONGIDA

ARRANGED BY

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ARRANGED BY

A. KNYVETT TOTTON.

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V. ECHINODERMA

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- Asterias*, STEPHENSEN 120.
- Asteroidea*, ARNDT 5.—A., CLARK 33.
- Astrogonium*, STEPHENSEN 120.
- Bipinnaria antarctica* sp. n. Antarctic, MACBRIDE Rep. Brit. Ant. Exp. 1910 Zool. 4 p. 90.
- Bothriaster* gen. n., DÖDERLEIN zool. Jahrb. Jena 40 p. 415.
- Brisinga coronata*, THUST 128.
- Brisingella monocantha* sp. n. Eastern Pacific, CLARK Mem. Mus. Comp. Zool. Harvard 39 p. 107 pl. v. figs. 3-4.
- Bythiolophus*, CLARK 32.
- Cnemidaster*, CLARK 32.
- Coscinasterias tenuispina*, CROZIER 40.
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- Dytaster*, CLARK 32.
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- Freyellidea* with *F. brevispina*, *octo-radiata*, *oligobrachia* spp. n. Eastern Pacific Mem. Mus. Comp. Zool. Harvard 39 pp. 108-113 pl. v figs. 1 2 ; vi figs. 1-4.
- Heliaster solaris* nom. n. for *H. multi-radiatus* (Gray), CLARK Proc. Biol. Soc. Washington 33 p. 183.—H., CLARK 32.
- Henricia*, CLARK 32.—H., STEPHENSEN 120.
- †*Hudsonaster clarki* sp. n. Ordovician Maryland, BASSLER Geol. Surv. Baltimore 1919 p. 211 pl. liii fig. 8.
- Hymenaster cremnodes*, *trias* spp. n. Eastern Pacific, CLARK Mem. Mus. Comp. Zool. Harvard 39 pp. 91 93 pls. iv fig. 1 ; iii figs. 1 2.
- Linckia*, CLARK 32.
- Litonotaster tumidus* sp. n. Eastern Pacific, CLARK Mem. Mus. Comp. Zool. Harvard 39 p. 83 pl. iii figs. 3-6.
- Luidia superba* sp. n. off Coast of Columbia, CLARK Proc. Biol. Soc. Washington 30 p. 171.—L. with *L. mascarena*, Indian Ocean ; *L. sibogae*, off Borneo ; *australiae*, Indian Ocean ; *quinaria chinensis*, *amurensis*, *inarmata*, Pacific Ocean ; *longispina malayana* Malaysia ; *sagamina*, Pacific Ocean (N-13246 m) q
- spp. & subspp. n., DÖDERLEIN Siboga Exp. Livr. 88 Mon. 46b pp. 193-293 pls. xviii-xx.
- Mammaster*, CLARK 32.
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- Prognaster*, CLARK 32.
- Protoreaster* gen. n., DÖDERLEIN Zool. Jahrb. Jena 40 p. 420.
- Pseudarchaster*, CLARK 32.
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- †*Sphaeraster*, MUSPER 103.
- Stichaster*, STEPHENSEN 120.
- Stylasterias paschae* sp. n. Eastern Pacific, CLARK Mem. Mus. Comp. Zool. Harvard 39 p. 105 pl. iv fig. 3.
- Styracaster*, CLARK 32.
- Zoroaster* with *Z. perarmatus* sp. n. Eastern Pacific, CLARK Mem. Mus. Comp. Zool. Harvard 39 pp. 100-104 pl. iv fig. 2.

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Ophiocolex, STEPHENSEN 120.

Ophiosteira kähleri sp. n. off Coast of Ecuador, CLARK Proc. Biol. Soc. Washington 30 p. 173.

Ophiura, STEPHENSEN 120.

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†*Abrachiocrinus*, WANNER 133.

†*Actinocrinus*, BENSON, DUN & BROWNE 12.

†*Allagecrinus*, WRIGHT 138.

†*Amphicrinus scoticus* Lower Carbon Scotland, *carbonarius* Carbon. U.S.A. spp. n., SPRINGER Crinoidea Flexibilia Washington 1920 pp. 338, 341 pl. iv figs. 9–11, 12a, b.—*A.*, WRIGHT 138.

†*Anisocrinus irregularis* sp. n. Silurian, SPRINGER Crinoidea Flexibilia Washington 1920 p. 165 pl. x figs. 5–6.

†*Antedon*, FOURTAU 58.—*A.*, MUSPER 103.

†*Apiocrinus*, GEMMELLARO 61.

†*Arthracantha*, THOMAS 124.

†*Asaphocrinus* gen. n. *Lecanocrinidae* with *A. bassleri* sp. n. Silurian, SPRINGER Crinoidea Flexibilia Washington 1920 p. 174 pls. iv, x figs. 10–14.

†*Balanocrinus*, MUSPER 103.—*B.*, WELSCH 134.

†*Cactocrinus* ? *brownei* sp. n. Lower Carbon. New S. Wales, BENSON, DUN & BROWNE Proc. Linn. Soc. N.S.W. 45 p. 342.

†*Caleidocrinus*, SPRINGER 117.

†*Calpiocrinus intermedius, rotundatus, peculiaris* spp. n. Silurian, SPRINGER Crinoidea Flexibilia Washington 1920 pp. 156, 159 pls. vii figs. 1–3, 6a–c, viii figs. 6–8.

†*Carabocrinus*, BASSLER 9.

†*Caryocrinites*, FOERSTE 56.

†*Cholocrinus*, SPRINGER 117.

†*Cleiocrinus*, SPRINGER 117.

†*Cleistocrinus* gen. n. *Ichthyocrinidae*, SPRINGER Crinoidea Flexibilia Washington 1920 p. 293 pl. xxxviii figs. 1–2.

†*Clidochirus americanus* Silurian U.S.A., *C. keyserensis* Helderbergian U.S.A. spp. n., SPRINGER Crinoidea Flexibilia Washington 1920 p. 298 pl. xxxvii figs. 7–11.

†*Coenocystis*, WANNER 133.

†*Crinocystites*, FOERSTE 52.

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†*Crinoidea*, BUTTS 19.—*C.*, CAYEUX 23.—*C.*, CLEMES 34.—*C.*, FOERSTE 54.

†*Cromyocrinus*, WRIGHT 138.

†*Cydonocrinus*, SPRINGER 117.

†*Dactylocrinus alpina* sp. n. Devon., SPRINGER Crinoidea Flexibilia Washington 1920 p. 312 pl. xli figs. 10a, b.

†*Edriocrinus adnascens* sp. n. Devon. U.S.A., DUNBAR New Haven Conn. Trans. Acad. Arts. Sci. 23 p. 120.—*E. occidentalis, explicatus, adhaerens* Helderbergian U.S.A., *E. holopoides* Oriskany Sandstone U.S.A. spp. n., SPRINGER Crinoidea Flexibilia Washington 1920 pp. 449, 451, 452 pl. lxxvi figs. 6–18, 22a–b, 23.

†*Embryocrinus* gen. n. *E. problematicus* sp. n. Ordovician New York State, HUDSON Albany N.Y. St. Mus. Bull. 196 p. 162.—*E.*, WANNER 133.

Eucalyptocrinus, FOERSTE 52.

†*Eupachycrinus*, WRIGHT 138.

†*Euryocrinus barrisi* Devon, U.S.A., *E. tennesseensis* Lower Carbon. U.S.A., spp. n., SPRINGER Crinoidea Flexibilia Washington 1920 pp. 316, 318 pl. xl figs. 1–3, 6a–c.

†*Eutaxocrinus eifelensis, perplexus* Devon. Europe, *whiteavesi, pulcher, amplus* Devon U.S.A., *montanensis* Lower Carbon. U.S.A. spp. n., SPRINGER Crinoidea Flexibilia Washington 1920 pp. 364–366, 369, 370, 372 pls. xlvii figs. 18a, b, xlix figs. 1–7, 13, l fig. 20, lxxv fig. 10.

†*Forbesiocrinus burlingtonensis* sp. n. Upper Burlington Iowa, SPRINGER Crinoidea Flexibilia Washington 1920 p. 253 pl. xxvi figs. 3–5.

†*Gnorimocrinus cirrifer, varians* spp. n. Silurian, SPRINGER Crinoidea Flexibilia Washington 1920 p. 355 pl. xlvii figs. 7–17.

- Hathrometra*, STEPHENSEN 120.
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†*Heterocrinus*, BASSLER 9.
†*Homalocrinus liljevalli* sp. n. Silurian SPRINGER Crinoidea Flexibilia Washington 1920 p. 155 pl. vi figs. 13–15.—H., SPRINGER 117.
†*Hormocrinus* gen. n. *Lecanocrinidae* with *H. anglicus*, *gotlandicus* spp. n. Silurian, SPRINGER Crinoidea Flexibilia Washington 1920 pp. 166, 168–169 pl. xiv figs. 6–7, 8a–d.
†*Hydreiocrinus*, WRIGHT 138.
†*Hypocrinus*, WANNER 133.
†*Ichthyocrinus phillipsianus* Silurian, England, *devonicus* Devonian U.S.A. spp. n., SPRINGER Crinoidea Flexibilia Washington 1920 pp. 284, 290 pls. xxxv figs. 17a–c, xxxvi figs. 13–14.
†*Isocrinus*, JAWORSKI 81.—I., WELSCH 134.
†*Lageniocrinus*, WANNER 133.
†*Lecanocrinus lindströmi*, *angulatus*, *meniscus* spp. n. Silurian, SPRINGER Crinoidea Flexibilia Washington 1920 pp. 134–140 pls i figs. 37a–c; ii figs. 22, 23, 25–28.
†*Lithocrinus*, SPRINGER 117.
†*Meristocrinus* with *M. minor*, *tuberosus*, *anceps* spp. n. Silurian, SPRINGER Crinoidea Flexibilia Washington 1920 pp. 313–314 pl. xvii figs. 4–6, 8, 9.
†*Merocrinus*, BASSLER 9.
†*Mespilocrinus romingeri*, *bordeni*, *thiemei*, *chapmani* spp. n. Lower Carbon. U.S.A., SPRINGER Crinoidea Flexibilia Washington 1920 pp. 196–200 pl. v figs. 20a, b, 21a–d, 22, 23a–c, 24a, b.—M., WRIGHT 138.
†*Metasycocrinus*, WANNER 133.
†*Metichthyocrinus*, SPRINGER 117.
†*Millericrinus*, MUSPER 103.
†*Monobrachiocrinus*, WANNER 133.
†*Nipterocrinus*, SPRINGER 117.
Oligometrides bellona sp. n. Philippines, CLARK Proc. biol. Soc. Washington 33 p. 21₁
†*Onychocrinus wrighti* sp. n. Lower Carbon. Scotland, SPRINGER Crinoidea Flexibilia Washington 1920 p. 438 pl. lxxv fig. 14.—O., WRIGHT 138.
†*Parichthyocrinus*, SPRINGER 117.
†*Parisocrinus*, REED 109.
†*Pentacrinites*, WELSCH 134.
†*Pentacrinus*, MUSPER 103.—P., WELSCH 134.
†*Periechocrinus*, FOERSTE 52.
†*Platycrinus*, WRIGHT 138.
†*Pleurocystites squamosus*, HUME 79.
†*Poteriocrinus*, WRIGHT 138.
†*Protaxocrinus girardeau*, *robustus* Silurian U.S.A., *P. virginianensis* Devon. U.S.A. spp. n., SPRINGER Crinoidea Flexibilia Washington 1920 pp. 349, 350 pl. xlv figs. 8–12.
†*Pseudosaccoma strambergense*, GEMMELLARO 61.
†*Pycnosaccus patei* Silurian U.S.A., *tenuibrachiatus* Devonian U.S.A., *welleri*, *dubius* Silurian U.S.A. spp. n., SPRINGER Crinoidea Flexibilia Washington 1920 pp. 186, 187–189 pls. xii figs. 1–9, xiii figs. 1–2, 3–5, 11a, b.
†*Reteocrinus*, BASSLER 9.
†*Rhodocrinus*, WRIGHT 138.
†*Rhopalocrinus*, SPRINGER 117.
†*Sagenocrinus clarki* sp. n. Silurian, SPRINGER Crinoidea Flexibilia Washington 1920 p. 220 pl. xix figs 4a–d.
†*Sycocrinus*, SPRINGER 117.
†*Synaptocrinus* gen. n. *Ichthyocrinidae*, SPRINGER Crinoidea Flexibilia Washington 1920 p. 301 pl. xxxviii figs. 3–6.
†*Synerocrinus*, SPRINGER 117.—S., WRIGHT 138.
†*Syocrinus*, WANNER 133.
†*Talarocrinus*, ULRICH 129.
†*Taxocrinus telleri* Devon. U.S.A., *T. pustulosus*, *ornatus* Lower Carbon. U.S.A., *T. belgicus* Lower Carbon. Belgium, *T. praestans*, *huntsvillae* Lower Carbon. U.S.A., SPRINGER Crinoidea Flexibilia Washington 1920 pp. 386, 391, 393, 395, 404, 407, pls. lii figs. 7–8; liv figs. 2a, b, 12, 13, 19, 20; lviii figs. 1–8.

- †*Temnocrinus*, SPRINGER 117.
 †*Thiollieroocrinus*, MUSPER 103.
 †*Timorocidaris*, BATHER 11.
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 †*Ulocrinus*, WRIGHT 138.

†*Wachsmuthicrinus bernhardinae*,
iowensis Lower Carbon. U.S.A., *ponderosus*
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- †*Woodocrinus*, WRIGHT 138.
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 †*Echinospaerites aurantium ameri-*
canum var. n. Ordovician Maryland,
 BASSLER Maryland Geol. Surv. Balti-
 more 1919 p. 207 pl. lv figs. 15-20.—*E.*,
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- †*Edrioasteroidea*, FOERSTE 54.

†*Gomphocystites* with *G. bownockeri*
 sp. n. Silurian Ohio, FOERSTE Ohio J. Sci.
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- †*Hallicystis*, FOERSTE 52.

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†*Narrawayella* gen. n. Type *Cyclo-*
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- †*Trenatocystis*, FOERSTE 52.

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†*Wellerocystis* gen. n. with *W. kimmo-*
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 Ohio J. Sci. 21 pp. 36-37 pl. i figs. 12a, b.

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†*Codaster lorae* sp. n. Devon. U.S.A.,
 DUNBAR New Haven Conn. Trans.
 Acad. Arts Sci. 23 p. 119.

- †*Mesoblastus*, ULRICH 129.

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ARRANGED BY

H. M. WOODCOCK.

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VII. BRACHIOPODA AND BRYOZOA

BY

W. N. EDWARDS.

(a) BRACHIOPODA

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†*Adeonellopsis porosa*, *magniporosa* p. 565, *quisenberryae*, *transversa* p. 566, *grandis*, *galeata* p. 568, *cyclops* p. 570 spp. n. U.S.A. Tertiary, CANU & BASSLER 4.

†*Aechmella crassimargo* sp. n. U.S.A. Tertiary, CANU & BASSLER 4 p. 233.

†*Aimulosia clavula* sp. n. U.S.A. Tertiary, CANU & BASSLER 4 p. 429.

- †*Cellepora patagonica* sp. n. Patagonia Eocene, symbiotic on Pagurid, PALLARONI Atti Soc. Ligust. Sci. Nat. 31 p. 22.
- †*Centronea* gen. n. type *Multitubigera micropora*, CANU & BASSLER 4 p. 761.
- †*Ceriopora vesiculosa, aldrichi, proposita*, spp. n. U.S.A. Tertiary, CANU & BASSLER 4 p. 679.
- †*Cheilopora labiosa, orbifera* p. 526, *prelucidioides, strictocella* p. 527, *grandis, saillans*, p. 525, *transversa* p. 529, *transversoides* p. 530, *specula, sulcifera* p. 531, spp. n. U.S.A. Tertiary, CANU & BASSLER 4.
- †*Conopeum ornatum, damicornis*, p. 87, *wilcoxianicum, similior*, p. 88, *tuberosum*, p. 90, *concauum, lamellosum*, p. 92, *arborescens* p. 93, spp. n. U.S.A. Tertiary, CANU & BASSLER 4.
- †*Corbulipora collaris* sp. n. U.S.A. Tertiary, CANU & BASSLER 4 p. 308.
- †*Costazzia antiqua* sp. n. U.S.A. Tertiary, CANU & BASSLER 4 p. 604.
- †*Cribrilina verrucosa* p. 291, *laticostulata* p. 292, *rathbunae* p. 293, spp. n. U.S.A. Tertiary, CANU & BASSLER 4.
- †*Crisia lowei* sp. n. U.S.A. Tertiary, CANU & BASSLER 4 p. 706.
- †*Crisulipora prominens, rugosodor-salis* p. 749, *flabellata, grandipora* p. 750, spp. n. U.S.A. Tertiary, CANU & BASSLER 4.
- Cupuladria* gen. n. type *Cupularia canariensis*, CANU & BASSLER 4 p. 103.
- †*Cyclicopora colum* p. 425, *filifera, laticella* p. 427, spp. n. U.S.A. Tertiary, CANU & BASSLER 4.
- †*Cyclocolpota* gen. n. type *perforata* sp. n. U.S.A. Tertiary, CANU & BASSLER 4 p. 431.
- †*Cycloidotrypa* gen. n. near *Cyclo-trypa* p. 366 for *australis* sp. n. p. 367, figs., CHAPMAN Proc. Linn. Soc. N.S.W. 45.
- †*Cycloperiella* gen. n. type *rubra* sp. n. U.S.A. Tertiary, CANU & BASSLER 4 p. 431.
- †*Dacryonella minor*, sp. n. U.S.A. Tertiary, CANU & BASSLER 4 p. 232.
- †*Dakaria brevis, laxata* spp. n. U.S.A. Tertiary, CANU & BASSLER 4 p. 360.
- †*Desmediaperoecia* gen. n., type *Tubulipora campicheana* U.S.A. Tertiary, CANU & BASSLER 4 p. 751.
- †*Desmeplagioecia* gen. n. (type *Bere-nina lineata*), p. 718, *dichotoma, compressa, lobata* p. 719, *plicata* p. 720; (*Actinopora*) *brevis* p. 720, *tenuis, tenuissima* p. 721 spp. n. U.S.A. Tertiary, CANU & BASSLER 4.
- †*Diaperoecia longicauda* p. 741, *jack-soniensis, lobulata* p. 472 (& var. n. *parvipora*) *rugosa* p. 743, *orbiculata, cleva* p. 744, *walcottii* p. 745 spp. n. U.S.A. Tertiary, CANU & BASSLER 4.
- †*Diastopora tubaedes, tubiformis* p. 673, *striatisemota, magnipora* p. 674, spp. n. U.S.A. Tertiary, CANU & BASSLER 4.
- †*Diplopholeos sagittellarium* p. 217, *sagittarium, parvaliporum* p. 218, *lineatum* p. 219, spp. n. U.S.A. Tertiary, CANU & BASSLER 4.
- †*Diplosolen compactum* p. 745, *planum* p. 747 spp. n. U.S.A. Tertiary, CANU & BASSLER 4.
- †*Diplotrypa appalachia* sp. n. Maryland Ordovician, BASSLER Maryland Geol. Surv. Camb. Ord. 1919 p. 219.
- †*Distansecharella jacksonica* sp. n. U.S.A. Tertiary, CANU & BASSLER 4 p. 300.
- †*Electra parvimeter* sp. n. U.S.A. Tertiary, CANU & BASSLER 4 p. 77.
- †*Ellisina brevis* p. n. U.S.A. Tertiary, CANU & BASSLER 4 p. 128.
- †*Enoplostomella synthetica* p. 434, *crassimuralis* p. 435, *rhomboidalis* p. 436, *ligulifera* p. 437, *vallata* p. 438, *magniporosa* p. 439 spp. n. U.S.A. Tertiary, CANU & BASSLER 4.
- †*Entalophora stipata* p. 734, *crassa* p. 735 spp. n. U.S.A. Tertiary, CANU & BASSLER 4.
- †*Erkosonea* gen. n., type *semota* sp. n. p. 763, *admota* p. 764 sp. n. U.S.A. Tertiary, CANU & BASSLER 4.
- †*Euritina tecta* sp. n. U.S.A. Tertiary CANU & BASSLER 4 p. 258.
- †*Exochoecia* gen. n. type *rugosa* sp. n. U.S.A. Tertiary, CANU & BASSLER 4 p. 737.
- †*Fasciculipora surculifera* sp. n. U.S.A. Tertiary, CANU & BASSLER 4 p. 808.

†*Fedora pusilla* sp. n. U.S.A. Tertiary, CANU & BASSLER 4 p. 624.

†*Figularia* (?) *crassicostulata* sp. n. U.S.A. Tertiary, CANU & BASSLER 4 p. 316.

†*Fistulipora microscopica* sp. n. N.S. Wales Carboniferous, CHAPMAN Proc. Linn. Soc. N.S.W. 45 p. 366 fig.

†*Floridina granulosa* p. 220, *bifoliata*, *onydentata* p. 221, *laguncula*, p. 223, *asymmetrica* p. 224, spp. n. U.S.A. Tertiary, CANU & BASSLER 4.

†*Filisparsa fallax* p. 693, *ingens* p. 694, *bini*, *gracilis* p. 695, *simulator*, *atomicula*, *laxata* p. 697, *biseriata* p. 702 spp. n. U.S.A. Tertiary, CANU & BASSLER 4.

†*Fron dipora laevigata*, *interporosa* spp. n. U.S.A. Tertiary, CANU & BASSLER 4 p. 806.

†*Galeopsis convexa* p. 511, *longicollis* p. 512, *verrucosa* p. 513, *erinacens*, *cyclops* p. 514 spp. n. U.S.A. Tertiary, CANU & BASSLER 4.

†*Gastropella asperula* sp. n. U.S.A. Tertiary, CANU & BASSLER 4 p. 321.

†*Gemelliporella* gen. n. *vorax* sp. n. Miocene, Pliocene, CANU & BASSLER 4 p. 372.

†*Gephyrotes levigatum*, *saillans* p. 301, *convexa* p. 302, *spectabilis* p. 303, *quadriserialis* p. 304 spp. n. U.S.A. Tertiary, CANU & BASSLER 4.

†*Gigantopora filiformis* p. 520, sp. n. U.S.A. Tertiary, CANU & BASSLER 4.

†*Grammella pusilla* sp. n. U.S.A. Tertiary, CANU & BASSLER 4 p. 132.

†*Hallopora fruticosa* sp. n. N.S. Wales Carboniferous, CHAPMAN Proc. Linn. Soc. N.S.W. 45 p. 367 figs.

†*Haswellia gracilis* sp. n. U.S.A. Tertiary, CANU & BASSLER 4 p. 517.

†*Heterocella vicksburgica* sp. n. U.S.A. Tertiary, CANU & BASSLER 4 p. 198.

†*Heteropora tecta*, *alveolata*, *ovalis*, spp. n. U.S.A. Tertiary, CANU & BASSLER 4 p. 682.

†*Hincksina reptans* p. 112, *smithi* p. 113, *ocalensis* p. 114, *elegans*, *parvicularia* p. 115, *costulifera* p. 116. spp. n. U.S.A. Tertiary, CANU & BASSLER 4.

Hippodiplosella spinosissima sp. n. Spain, BARROSO Bol. Soc. Esp. Hist. Nat. 20 p. 359 figs.

†*Hippodiplosia vespertilio* p. 394, *falcifera* p. 395, *magniporosa* p. 396, *baccata*, *strangulata* p. 397, spp. n. U.S.A. Tertiary CANU & BASSLER 4.

†*Hippomenella rotula* p. 381, *transversata* p. 382, *angustaedes*, *incondita* p. 383, *capitumortis* p. 384, *costulata* p. 385, *alifera* p. 386, *radicata* p. 397, *transversora*, *pungens* p. 388, *punctata* p. 389, *ligulata* p. 390, *tuberosa*, *axiculata* p. 391, *crassicollis* p. 392 spp. n. U.S.A. Tertiary, CANU & BASSLER 4.

Hippoconella gen. n. type *Lepralia hippopus*, CANU & BASSLER 4 p. 379.

†*Hippoporella* gen. n. p. 377 type *perforata* sp. n. p. 378, *multilamellosa* sp. n. p. 378 U.S.A. Tertiary, CANU & BASSLER 4.

†*Hippoporina midwayanica* p. 375, *lucens* p. 376, *biporosa* p. 377 spp. n. U.S.A. Tertiary, CANU & BASSLER 4.

†*Hippochoa* (?) *conjuncta* sp. n. U.S.A. Tertiary, CANU & BASSLER 4 p. 327.

†*Hippozenegosella distorta* p. 399, *arcuata* p. 400, *marginata*, *inflata* p. 401, *sexordinata* p. 402 spp. n. U.S.A. Tertiary, CANU & BASSLER 4.

†*Holoporella orbiculifera*, *fissurata* p. 605, *altirostris* p. 606, *granulosa*, *crassicollis* p. 607, *pisiformis* p. 608, *damicornis*, *separata*, p. 609, *micropora*, *seposita* p. 610, *peristomaria* p. 611, *discus*, *birostrata* p. 612 spp. n. U.S.A. Tertiary, CANU & BASSLER 4.

†*Hornera jacksonica* p. 797, *reteramae*, *polyporoidea* p. 799, *tenuirama*, *tuberosa* p. 800 spp. n. U.S.A. Tertiary, CANU & BASSLER 4.

†*Houzeauina ornata* p. 422, *callosa*, *librata* p. 423 spp. n. U.S.A. Tertiary, CANU & BASSLER 4.

†*Idmidronea* gen. n. type *Idmonea coronopus* p. 784; *rosacea* p. 784, *culter* p. 785 spp. n. U.S.A. Tertiary, CANU & BASSLER 4.

†*Idmonea tacta* p. 771, *magna* p. 772, *arcuata*, *sloani* p. 775, *magnireversa* p. 776, *grallator* p. 777, *parvula* p. 780, *filiformis* p. 781, *grandiora* p. 783 spp. n. U.S.A. Tertiary, CANU & BASSLER 4.

- †*Kleidionella parasitica, lobata* p. 619, *crystata* p. 620, *verrucosa* p. 621, spp. n. U.S.A. Tertiary, CANU & BASSLER 4.
- †*Lacerna jacksonensis* p. 346, *hexagonalis* p. 347 spp. n. U.S.A. Tertiary, CANU & BASSLER 4.
- †*Lagenipora americana* sp. n. U.S.A. Tertiary, CANU & BASSLER 4 p. 591.
- †*Lagonoecia* gen. n., type *lamellifera* sp. n. U.S.A. Tertiary, CANU & BASSLER 4 p. 792.
- †*Leiosella grandisora* p. 449, *orbicularia* p. 450 spp. n. U.S.A. Tertiary, CANU & BASSLER 4.
- †*Leiosoecidae* fam. nov., *Leiosoecia* gen. n., type *Multicrescis parvicella*, CANU & BASSLER 4 p. 823.
- †*Lekythionia* gen. n., type *Reticulipora dichotoma*, p. 747 U.S.A. Tertiary, CANU & BASSLER 4.
- †*Lichenopora grignonensis* var. n. *multilamellosa* U.S.A. Tertiary, CANU & BASSLER 4 p. 820.
- Loxosomella antedonis*, OSBURN 13.
- †*Lunularia ovata* p. 241, *grandipora, verrucosa* p. 242, *ligulata* p. 243, *tubifera* p. 245 (*Oligotresium*) *claihornica* p. 248, *jacksonensis* p. 250, *tintinabula* p. 251, spp. n. U.S.A. Tertiary, CANU & BASSLER 4.
- †*Macropora aquiae, multilamellosa*, spp. n. U.S.A. Tertiary, CANU & BASSLER 4 p. 277.
- †*Mecynoecia luvernensis, cylindrica* p. 727, *pusila, brevis* p. 728, *magnicella, compressa* p. 729, *quisenberryae, lunata* p. 730, *semota* p. 731, *elongatotuba* p. 732, *cornuta, parvituba* p. 733, *lobata, globula* p. 734 spp. n. U.S.A. Tertiary, CANU & BASSLER 4.
- Membranipora serrulata*, OSBURN 13.
- †*Membraniporella crassicollis, planula* p. 286, *ulricki, bioculata* p. 287, *compressa* p. 288, *monilifera, subagassizi* p. 289 spp. n. U.S.A. Tertiary, CANU & BASSLER 4.
- †*Membraniporidra oecioporosa* p. 133, *pachymuralis, trigemma* p. 134, *laticella* p. 135, *spissimuralis* p. 136, *similis* p. 137, *pyriformis* p. 138, spp. n. U.S.A. Tertiary, CANU & BASSLER 4.
- †*Membraniporina canalifera* p. 95, *sinesolum* p. 96, *claviformis* p. 97, *tubulosa* p. 98, *arcana* p. 99, spp. n. U.S.A. Tertiary, CANU & BASSLER 4.
- †*Membrandoecium transversum, duplex* p. 120, *lowei* p. 121, *rectum* p. 122 spp. n. U.S.A. Tertiary, CANU & BASSLER 4.
- †*Meniscopora elliptica* sp. n. U.S.A. Tertiary, CANU & BASSLER 4 p. 557.
- †*Mesonea* gen. n., type *Retepora radians*, CANU & BASSLER 4 p. 762.
- †*Metracolpota brevis, grandis* p. 305, *cylindrica* p. 307, spp. n. U.S.A. Tertiary, CANU & BASSLER 4.
- †*Metradolium labratulum* p. 441, *parvirimulatum* p. 443, *transversum* p. 444, *grande, conveniens* p. 445, *obliquum* p. 446, *sulciferum* p. 447, spp. n. U.S.A. Tertiary, CANU & BASSLER 4.
- †*Metrarabdotos grande* sp. n. Tertiary, CANU & BASSLER 4 p. 537.
- †*Metropieriella albora* p. 361, *grandipora, porosa* p. 362, *acervata, latipora* p. 365, spp. n. U.S.A. Tertiary, CANU & BASSLER 4.
- †*Microecia flabellata* p. 735, *vibrio, hirta* p. 736 spp. n. U.S.A. Tertiary, CANU & BASSLER 4.
- †*Micropora minuticella* sp. n. U.S.A. Tertiary, CANU & BASSLER 4 p. 237.
- †*Mucronella patens, granulosa* spp. n. U.S.A. Tertiary, CANU & BASSLER 4 p. 475.
- †*Myrizoum* sp., DALL 7 p. 34.
- †*Nellia bifaciata, concetenata, midwayanica*, spp. n. U.S.A. Tertiary, CANU & BASSLER 4 p. 197.
- †*Ochetosella robusta* sp. n. U.S.A. Tertiary, CANU & BASSLER 4 p. 453.
- †*Ogivalina elongata* sp. n. p. 118 and var. n. *minor* p. 119, U.S.A. Tertiary, CANU & BASSLER 4.
- †*Oncousoecia quinqueseriata* sp. n. U.S.A. Tertiary, CANU & BASSLER 4 p. 692.
- †*Onychocella georgiana* p. 206, *celsa, laciniosa* p. 207, *dupliciter* p. 208, spp. n. U.S.A. Tertiary, CANU & BASSLER 4.
- Orosopora* gen. n., type *Lichenopora ciliata*, CANU & BASSLER 4 p. 822.
- †*Otionella McCalliei* p. 106, *tuberosa* p. 107, *cava* p. 108, spp. n. U.S.A. Tertiary, CANU & BASSLER 4.
- †*Pachythea stipata*, sp. n. U.S.A. Tertiary, CANU & BASSLER 4 p. 322.

†*Parleiosocia* gen. n. type *jacksonica* sp. n. U.S.A. Tertiary, CANU & BASSLER 4 p. 824.

†*Partretocycloecia reptans, porosa* p. 831, *exilis* p. 834 spp. n. U.S.A. Tertiary, CANU & BASSLER 4.

†*Perigastrella ansata* p. 576, *hexagonalis, rhomboidalis* p. 577, *oscitans* p. 578, *elegans* p. 579, *maxilla* p. 580, *trapezoidea* p. 581, *depressa, rectilineata* p. 582, *plana* p. 583, *costifera* p. 584, *tubulosa* p. 585, spp. n. U.S.A. Tertiary, CANU & BASSLER 4.

†*Peristomella laticella, erecta* p. 413, *falcifera* p. 415 spp. n. U.S.A. Tertiary, CANU & BASSLER 4.

Peristomoecia gen. n. type *Stomatopora divergens*, incl. *Proboscina lamourouxii* and *bourgi*, CANU & BASSLER 4 p. 692.

†*Phoceana* (?) *simulator* sp. n. U.S.A. Tertiary, CANU & BASSLER 4 p. 496.

†*Phylactella parvicollum* p. 574, *parvicella, cribrata* p. 575, spp. n. U.S.A. Tertiary, CANU & BASSLER 4.

†*Plagioecia lobata, clavioedes, superposita* p. 710, *brundidgensis, tubifer, concreta* p. 711, *divagans* p. 712, *globulosa* p. 713, *lamellosa, botula* p. 714, *hirta* p. 715, *marginata* p. 716, *discoidea* p. 717 spp. n. U.S.A. Tertiary, CANU & BASSLER 4.

†*Plagiosmittia porelloides* p. 472, *virgula* p. 473 spp. n. U.S.A. Tertiary, CANU & BASSLER 4.

†*Platonea* gen. n., type *Reptotubigera philippsae*, p. 759; *clavata, lamellifera* p. 760 spp. n. U.S.A. Tertiary, CANU & BASSLER 4.

†*Pleuronea* gen. n., type *Idmonea fenestrata*, p. 765; *fibrosa* p. 765, *subpertusa* p. 767, *fusiformis* p. 768, *alveolata* p. 769 spp. n. U.S.A. Tertiary, CANU & BASSLER 4.

†*Polyascosocia* gen. n. p. 837, type *coronopus* sp. n. *jacksonica* p. 837, *umbriata* p. 840 spp. n. U.S.A. Tertiary, CANU & BASSLER 4.

†*Porella obliqua* p. 481, *irregularis, granulosa* p. 484, *coronata, denticulifera*, p. 485, *jacksonica* p. 486, *pungens* p. 487, *unguiculata, planulata* p. 488, *abdita, portentosa* p. 489, *crassoparies* p. 490, *cylindrica, erecta* p. 491, *compacta* p. 492, spp. n. U.S.A. Tertiary, CANU & BASSLER 4.

†*Proboscina variabilis, admota* p. 659, *rugosa, projecta* p. 650, *geminata, anceps, expatiata* p. 661, *alternata, divergens* p. 662, *colubra, clavatula, striatula* p. 663, *prominens, undulata, parviangulata* p. 664, *subechinata, exigua* p. 665, *rectilinea, conveniens* p. 666, *clavatiramosa, latobrevis* p. 667, *cranei, idmoneoides, magniramosa* p. 668, spp. n. U.S.A. Tertiary, CANU & BASSLER 4.

†*Puellina bispinosa* p. 297, *simulator* p. 298, *inarmata* p. 299, spp. n., *radiata* var. n. *anaticula* p. 297, U.S.A. Tertiary, CANU & BASSLER 4.

†*Pyripora parvicella* sp. n. U.S.A. Tertiary, CANU & BASSLER 4 p. 80.

†*Quadricellaria* (?) *lacinoso, bvrnsi*, spp. n. U.S.A. Tertiary, CANU & BASSLER 4 p. 279.

†*Ramphonotus levis, sloani* p. 164, *baccatus, regularis*, p. 165, spp. n. U.S.A. Tertiary, CANU & BASSLER 4.

†*Rectonychocella bilammellaria, semiluna* p. 210, *tenuis* p. 211, *elliptica* p. 212 spp. n. U.S.A. Tertiary, CANU & BASSLER 4.

Retepora pacifica var. n. *japonica* p. 615, *misakiensis* sp. n. p. 616, *watanabei* sp. n. p. 618, *R. (Retoporella) kinoshitai* p. 624, *crenulata* p. 626, spp. n. Japan, OKADA Annot. Zool. Japon. 9 figs.

†*Retepora ramosa* p. 501, *scutulata, laciniata* p. 504 spp. n. U.S.A. Tertiary, CANU & BASSLER 4.

†*Rhagasostoma levigatum* p. 254, *minusculum* p. 255, spp. n. U.S.A. Tertiary, CANU & BASSLER 4.

†*Rhamphostomella simplex* p. 477, *convexa* p. 478, spp. n., *brendolensis* var. n. *americana* p. 477 U.S.A. Tertiary, CANU & BASSLER 4.

†*Romancheina hexagona*, p. 407, *parvipunctata* p. 408 spp. n. U.S.A. Tertiary, CANU & BASSLER 4.

†*Rosseliana parvipora* sp. n. U.S.A. Tertiary, CANU & BASSLER 4 p. 228.

†*Schismopora globosa* p. 598, *umbonata, orbicularis* p. 600 spp. n. U.S.A. Tertiary, CANU & BASSLER 4.

†*Schizobathysella semilunata* sp. n. U.S.A. Tertiary, CANU & BASSLER 4 p. 590.

†*Schizobrachiella* gen. nov., type *Hemeschara sanguinea*, incl. *Lepralia candida, L. goniostoma, L. granosoporosa*,

Schizoporella levinseni, *S. alata* and *S. subsinuata* U.S.A. Tertiary, CANU & BASSLER 4 p. 353.

†*Schizolavella* gen. nov., type *Schizoporella vulgaris*, incl. *Eschara phymatopora* and *Lepralia schizostoma* U.S.A. Tertiary, CANU & BASSLER 4 p. 358.

†*Schizomavella granulifera* p. 355, *granulosa* p. 356, *elongata*, *arborea* p. 357, *longirostris* p. 358, spp. n. U.S.A. Tertiary, CANU & BASSLER 4.

†*Schizopodrella* (?) *marginata* sp. n. U.S.A. Tertiary, CANU & BASSLER 4 p. 342.

†*Schizorthosecas grandiporosum* p. 627, *radiatum* p. 628 spp. n. U.S.A. Tertiary, CANU & BASSLER 4.

†*Scrupocellaria cookei*, *milneri* p. 186, *resseri* p. 187, *willardi*, *triangulata* p. 188, *rathbuni*, *vaughani* p. 189, *dubia*, *clausa* p. 190, spp. n. U.S.A. Tertiary, CANU & BASSLER 4.

†*Semihawswellia tripora*, *exilis* p. 518, *clara* p. 519, spp. n. U.S.A. Tertiary, CANU & BASSLER 4.

†*Smittina collum* p. 457, *labiatula*, *grandifossa*, p. 460, *coronata* p. 461, *exigua* p. 463, *puncturata* p. 464, *sordida*, *cophia* p. 465, *ampla* p. 466, *reticuloides* p. 467, *telum*, *granulosa* p. 468, *orbicularia* p. 469, *pupa* p. 470 spp. n. U.S.A. Tertiary, CANU & BASSLER 4.

†*Smittipora midwayanica* sp. n. U.S.A. Tertiary, CANU & BASSLER 4 p. 225.

†*Spiropora majuscula* sp. n. U.S.A. Tertiary, CANU & BASSLER 4 p. 675.

†*Stamenocella cylindrica* p. 168, *midwayanica*, *anatina* p. 169, *pyriforma* p. 170, *inferaviculifera* p. 172, *grandis*, *intermedia* p. 173, spp. n. U.S.A. Tertiary, CANU & BASSLER 4.

†*Steganoporella jacksonica* p. 262, *rectangularia*, *incrustans* p. 263, *vicksburgica* p. 264, spp. n. U.S.A. Tertiary, CANU & BASSLER 4.

†*Stephanosella parvipora* sp. n. U.S.A. Tertiary, CANU & BASSLER 4 p. 344.

†*Stomatopora*, *opposita* p. 654, *contracta*, *exigua*, *parvipora* p. 655, *polygona*, *minuta*, *excavans*, p. 656, *cornu*, *pratti*, *striatula* p. 657, *fasciolata* p. 658 spp. n. U.S.A. Tertiary, CANU & BASSLER 4.

†*Tegella aculeata* p. 166, *nicklesi*, p. 167, spp. n. U.S.A. Tertiary, CANU & BASSLER 4.

†*Telopora* gen. n. type *Supercystis watersi*, incl. *S. digitata*; *patens*, sp. n. U.S.A. Tertiary, CANU & BASSLER 4 p. 807.

†*Tervia gracilis* p. 788, *parvula*, *tumida* p. 790, *globulifera* p. 791, *pyrifera* p. 792 spp. n. U.S.A. Tertiary, CANU & BASSLER 4.

†*Terviidae* fam. n. incl. *Tervia*, *Prosthenocia*, *Lagonocia*, CANU & BASSLER 4 p. 788.

†*Tessarodoma ornata* p. 521, *grandipora* p. 522, spp. n. U.S.A. Tertiary, CANU & BASSLER 4.

†*Tetraplaria tuberculata*, *caudifera* spp. n. U.S.A. Tertiary, CANU & BASSLER 4 p. 368.

†*Thalamoporella prima* sp. n. U.S.A. Tertiary, CANU & BASSLER 4 p. 269.

†*Tretocycloecia grandis*, *reticulata* spp. n. U.S.A. Tertiary, CANU & BASSLER 4 p. 827.

†*Tretonea* gen. n., type *levis* sp. n. U.S.A. Tertiary, CANU & BASSLER 4 p. 769.

†*Trochiliopora* sp., Chalk, Sussex; GASTER 8.

†*Trypematella* gen. n. *papulifera* sp. n. Pleistocene California, CANU & BASSLER 4 p. 417

†*Trypostega elongata* p. 328, *undulata* p. 329 spp. n. U.S.A. Tertiary, CANU & BASSLER 4.

†*Tubucella gibbosa* sp. n. U.S.A. Tertiary, CANU & BASSLER 4 p. 548.

†*Tubucellaria parviporosa*, *fallax* p. 543, *vicksburgica* p. 544, *nodifera* p. 546, spp. n. U.S.A. Tertiary, CANU & BASSLER 4.

†*Tubulipora midwayanica* p. 753, *interrupta* p. 758 spp. n. U.S.A. Tertiary, CANU & BASSLER 4.

†*Umbonula* (?) *miser*, sp. n. U.S.A. Tertiary, CANU & BASSLER 4 p. 494.

†*Velumella levigata*, *plicata* spp. n. U.S.A. Tertiary, CANU & BASSLER 4 p. 214.

Victorella pavida fig., VANHOFFEN 17.

†*Watersipora* (?) *erecta* sp. n. U.S.A. Tertiary, CANU & BASSLER 4 p. 538.

VIII. MOLLUSCA

ARRANGED BY

H. B. PRESTON.

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Clathrodrillia paziana, limans, castianora, aenone, callianira, andromeda spp. n. Pacific; *Carinodrillia* sec. n. *C. (C.) halis, alcestis, thestia, haliplexa, ? C. (Kylia) alcmene, alcyone* spp. n. Pacific, DALL Proc. U.S. Nation. Mus. 56 pp. 14-20.

†*Conidae*, YOKOYAMA 566.

Conus chytreus (C. figulinus var. *chytreus, olim*) is a true species, HOPWOOD J. Conch. Leeds 16 p. 103.

†*Conus* with *C. (Leptoconus) armoricus* var. n. *pseudoarmoricus* Tertiary N. Zealand, MARSHALL & MURDOCH Trans. and Proc. N.Z. Inst. 52 p. 135.—*C.*, HUBBARD 265.—*C.*, MAURY 349.

Crassispira erigone, eurynome, candace, dirce, nephele, epicasta, bridgesi, bacchia, tepocana, arsinoë, ? C. amathea, martinensis spp. n. Pacific, DALL Proc. U.S. Nation. Mus. 56 pp. 21-27.

Cryptogemma polycaste, chrysothemis calypso, cymothoë, quintinensis, antigone, adrastia spp. n. Pacific, DALL Proc. U.S. Nation. Mus. 56 pp. 30-33.

Cymatosyrinx hespera sp. n.; *elissa* sp. n. ?; ? *C. lalage, ferminiana, palmeri, C. idothea, hecuba* spp. n. Pacific, DALL Proc. U.S. Nation. Mus. 56 pp. 6-9.

†*Cythara*, HUBBARD 265.

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Cytharella aculea, louisa, quadri-seriata, hippolita, verdensis, ? C. janira, C. electra, niobe, amatula, phaethusa, C. (Agathotoma) pyrrhula, euryclea, penelope, camarina, phryne spp. n. Pacific, DALL Proc. U.S. Nation. Mus. 56 pp. 74-80.

Daphnella bartschi sp. n. Pacific, DALL Proc. U.S. Nation. Mus. 56 p. 74.

†*Drillia* with *D. diazica* sp. n. Tertiary Porto Rico, MAURY New York Acad. Sci. 3 pp. 71-72.—*D. grabani, portoricensis, semmesi* spp. n. Tertiary Porto Rico, HUBBARD New York Acad. Sci. 3 pp. 159-160.

Elaeocyma ianthe, attalia, arbela, halocydne aeolia, abdera, aegina, ? E. aerope Pacific, DALL Proc. U.S. Nation. Mus. 56 pp. 9-13.

Eucithara basedowi sp. n. North-West Australia, HEDLEY R. Geog. Soc. Aust. S. A. Branch Proc. 18 p. 279.

Glyphostoma adana, adria, parte-flosa, sirena cymodoce, spp. n. Pacific, DALL Proc. U.S. Nation. Mus. 56 pp. 52-54.

Haedropleura melita sp. n. Pacific, DALL Proc. U.S. Nation. Mus. 56 p. 30.

Leucosyrinx persimilis var. *blanca, ? L. galapagana, L. amycus, Kincaidi* spp. n. Pacific, DALL Proc. U.S. Nation. Mus. 56 pp. 5-6.

Lora pitysa, ? L. halitropa, L. brachis, antipoda, healyi, popovia, tenuilirata var. *cymata* spp. & var. n. Pacific and Behring Sea; *L. laurenciana* nom. n. for *Bela tenuilirata*, Krause; *L. mitrata, pavlova, chiachiana, alitakensis, equatorialis, pribilova, inequita, surana, nazanensis, monterialis, quadra, diegensis, lotta, kyskana, miona, regulus, lütkeni, sexta, althorpensis, tenuissima colpoica* spp. n. Pacific and Behring Sea, DALL Proc. U.S. Nation. Mus. 56 pp. 40-50.

Mangilia (Clathromangilia rhyssa, M. (Kurtziella) cyrene, danaë, hebe, arteaga var. *roperi, M. (K ?) beta, M. nunivakensis, oenoe, philodice, patagoniensis, eriopsis, granitica, althorpi, carlottae, evadne, eriphyle, hermione, laodice, cesta, newcombei, M ? dejanira, eurybia* spp. & var. n. Pacific and Behring Sea, DALL Proc. U.S. Nation. Mus. 56 pp. 62-72.

Monilopsis grippi sp. n. Pacific, DALL Proc. U.S. Nation. Mus. 56 p. 27.

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Philbertia hesione, helena, doris, ? P. dione, P. ephaedra, aethra, dictynna, scammoni, telemon, aegialea, P. Nannodiella) nana, fraternalis, phylira, P. (? N.) amycla, P. hilaira spp. n. Pacific; *P. trichodes* nom. n. for *Pleurotoma hirsutum* de Folin, DALL Proc. U.S. Nation. Mus. 56 pp. 54-62.

Pleurotoma, CHRISTENSEN 117.

†*Pleurotoma* with *P. martini, jung-huhni, timorensis, molengraaffi, P. (Surcula) cornetiformis, P. (Drillia) reticulata, verbeeki, P. (Borsonia) indica* spp. n. Tertiary, TESCH Pal. Timor 5 pp. 26-36.

Pleurotomella herminea, thalassica, oceanida Pacific, DALL Proc. U.S. Nation. Mus. 56 pp. 50-51.

†*Pleurotomidae*, YOKOYAMA 566.

†*Rostellites*, ROMAN & MAZERAN 433.

Suavodrillia willetti sp. n. Pacific, DALL Proc. U.S. Nation. Mus. 56 p. 29.

†*Surcula* with *S. hamptenensis* sp. n. Tertiary N. Zealand, MARSHALL & MURDOCH Trans. and Proc. N.Z. Inst. 52 p. 134.

Taranis panope, zeuxippe spp. n. Pacific, DALL Proc. U.S. Nation. Mus. 56 p. 81.

Terebra with *T. langfordi, argus brachygyra, thaanumi, waikikiensis, flavofasciata, clappi, lanceata oahuensis, medipacifica, m. melior, spaldingi, dussumieri hiradoensis* spp. & subspp. n. Hawaii, PILSBRY Proc. Acad. Nat. Sci. Philad. 1920 pp. 300-309.

†*Terebra* with *T. martini* sp. n. Tertiary, TESCH Pal. Timor 5 pp. 36-38.—*T.* with *T. sansebastiana* sp. n. Tertiary Porto Rico, MAURY New York Acad. Sci. 3 p. 70.—*T. quebradillensis* sp. n. Tertiary Porto Rico, HUBBARD New York Acad. Sci. 3 p. 161.

†*Terebridae*, YOKOYAMA 566.

Turricula libya, T. (Knefastia) nigricans, T. (Surcula) laysanica, panthea, lavinia, spp. n. Pacific, DALL Proc. U.S. Nation. Mus. 56 pp. 2-4.

Turris (Crassispira ?) rugitecta sp. n. Pacific, DALL Proc. U.S. Nation. Mus. 54 p. 226.

†*Turris altuscollus, T. (Pleurotoma) nomlandi* spp. n. Oligocene U.S.A., CLARK Univ. Cal. Pub. Bul. Dept. Geol. 11 p. 189.—*T. curialis* sp. n. Tertiary N. Zealand, MARSHALL & MURDOCH Trans. and Proc. N.Z. Inst. 52 p. 133.—*T.* HUBBARD 265.

Turritidae, DALL 149 & 151.—*T.*, BERRY 57.

OLIVIDÆ, HARPIDÆ, MARGINELLIDÆ, VOLUTIDÆ & MITRIDÆ.

†*Ancillaria martini, elegantula* spp. n. Tertiary, TESCH Pal. Timor 5 p. 42.

†*Athleta*, ROMAN & MAZERAN 433.

†*Fulguraria* with *F. (Alcithoe) turrita* var. n. *nukumaruensis, F. (A.) morgani* sp. n. Tertiary N. Zealand, MARSHALL & MURDOCH Trans. and Proc. N.Z. Inst. 52 pp. 132-133.

†*Lyria acuticostata* sp. n. Miocene S. Australia, CHAPMAN Proc. R. Soc. Vict. 32 p. 241.—*L.*, MAURY 349.

Marginella obesula, ringens, multi-dentata, incerta spp. n. Tasmania, MAY Proc. R. Soc. Tasmania 1919 pp. 58-59.—*M.* with *M. (Volvaria) decaryi, M. delphinica* spp. n. Madagascar, BAVAY J. conchyliol. 65 pp. 164-167.—*M. walvisiana* sp. n. S. Africa, TOMLIN J. Conch. Leeds 16 p. 88.—*M. gracilis*, TOMLIN, 490.—*M. guttula*, SHIRLEY 462.—*M.*, MAURY 349.

†*Mesorhytis*, ROMAN & MAZERAN 433.

Mitra burnupiana sp. n. S. Africa, COOKE London Proc. Malac. Soc. 14 p. 114.—*M. montereyi* sp. n. California, BERRY London Proc. Malac. Soc. 14 p. 31.—*M.* with *M. kamehameha, thaanumiana, ostergaardi, M. (Strigatella) ticaonica vagans, M. olivellaeformis, langfordi, emersoni, waikikiensis* spp. & subsp. n. Hawaii, PILSBRY Proc. Acad. Nat. Sci. Philad. 1920 pp. 309-316.—*M. (Turricula) interpunctata* sp. n. Madagascar, ODHNER Ark. Zool. 12 p. 37.

†*Mitra*, HUBBARD 265.—*M.*, MAURY 349.

Mitridae, COOKE 133.—*M.*, TOMLIN 491.

†*Mitridae*, YOKOYAMA 566.

†*Oliva*, MAURY 349.

†*Olivella muticoides* var. *portoricoensis* and *O. portoricoensis* var. & sp. n. Tertiary Porto Rico, HUBBARD New York Acad. Sci. 3 pp. 156–157.—*O. quadruplicata* sp. n. Oligocene U.S.A., CLARK Univ. Cal. Pub. Bul. Dept. Geol. 11 p. 185.—*O.*, MAURY 349.

†*Turricula (Vulpecula) wanneri* sp. n. Tertiary, TESCH Pal. Timor 5 p. 48.

†*Volutidae*, YOKOYAMA 566.

FASCIOLARIIDÆ, TURBINELLIDÆ, BUC-CINIDÆ, NASSARIIDÆ, (*Nassidæ olim*), PYRENIDÆ (*Columbellidæ olim*), MURICIDÆ & THAIDIDÆ (*Coralliophilidæ olim*).

†*Agasoma gravidum multinodosum* var. n. Oligocene U.S.A., CLARK Univ. Cal. Pub. Bul. Dept. Geol. 11 p. 183.

†*Alectrion gurabensis* var. *portoricoensis* and var. *varicum* varr. n. Tertiary Porto Rico, HUBBARD New York Acad. Sci. 3 p. 151.—*A.*, MAURY 349.

†*Amphissa pulchilineata* sp. n. Oligocene U.S.A., CLARK Univ. Cal. Pub. Bul. Dept. Geol. 11 p. 174.

Anachis bartschii sp. n. Pacific, DALL Proc. U.S. Nation. Mus. 54 p. 233.

Ancistrolepis latus sp. n. Pacific, DALL Proc. U.S. Nation. Mus. 54 p. 229.

Boreotrophon xestra, echinus spp. n. Pacific, DALL Proc. U.S. Nation. Mus. 54 p. 232.

†*Buccinidae*, YOKOYAMA 566.

†*Buccinofusus*, ROMAN & MAZERAN 433.

Buccinum with *B. tanquaryi, ekblawi* spp. n. Arctic Seas, BAKER N.Y. Bul. Amer. Mus. Nat. Hist. 41 pp. 507–513.—*B. hydrophanum*, NORDGAARD 371.—*B.*, DALL 150.

Bullia tenuistriata sp. n. S. Africa, TOMLIN J. Conch. Leeds 16 p. 87.

†*Clavella californica* sp. n. Oligocene U.S.A., CLARK Univ. Cal. Pub. Bul. Dept. Geol. 11 p. 183.

Cominella, MAY 352.

Columbella apicibulbus sp. n. S. Africa, TOMLIN J. Conch. Leeds 16 p. 87.—*C. (Mitrella) tenuilinzata* sp. n. Oligocene U.S.A., CLARK Univ. Cal. Pub. Bul. Dept. Geol. 11 p. 173.—*C. molengraaffi* sp. n. Tertiary, TESCH Pal. Timor 5 p. 62.

†*Columbellidae*, YOKOYAMA 566.

Colus (Latisipho) lepidus, C. (Limatofusus) tahvitanus spp. n. Pacific, DALL Proc. U.S. Nation. Mus. 54 p. 228.

Cominella quoyi, HEDLEY 237.

Chrysodomus, DALL 150.

†*Chrysodomus mesleri, leffingwelli* spp. n. Pliocene, DALL U.S. Geol. Surv. Prof. ppr. 125–c p. 28.—*C. ? pulcherrimus* sp. n. Oligocene U.S.A., CLARK Univ. Cal. Pub. Bul. Dept. Geol. 11 p. 175.

†*Cryptorhytis*, ROMAN & MAZERAN 433.

Fasciolaria papillosa, JOHNSON 289.

†*Fusinus* with *F. (Exilia) pino-lianus* sp. n. Oligocene U.S.A., CLARK Univ. Cal. Pub. Bul. Dept. Geol. 11 pp. 177–179.

Fusus, SCHITZ 449.

†*Fusus*, HUBBARD 265.

†*Hindsia wanneri* sp. n. Tertiary, TESCH Pal. Timor 5 p. 69.

†*Latirus fusiformis* sp. n. Tertiary, TESCH Pal. Timor 5 p. 55.

Murex with *M. torrefactus insularum* subsp. n. Hawaii, PILSBRY Proc. Acad. Nat. Sci. Philad. 1920 pp. 318–319.—*M. cyclostoma baldwiniana* subsp. n. Hawaii, PILSBRY t.c. p. 373.—*M. fulvescens*, Sow. and *M. spinicostata*, Kiener, FULTON 193.—*M.*, HIRSCH 256.—*M.*, SCHITZ 449.

†*Murex (Ocinebra) sobrantensis* sp. n. Oligocene U.S.A., CLARK Univ. Cal. Pub. Bul. Dept. Geol. 11 p. 176.—*M. (Chicoreus) timorensis* sp. n. Tertiary, TESCH Pal. Timor 5 p. 64.—*M.*, HUBBARD 265.—*M.*, MAURY 349.

†*Muricidae*, YOKOYAMA 566.

Nassa, CHRISTENSEN 117.—*N.*, SCHITZ 449.

†*Nassa (Hinia) assimilis*, sp. n. *N. (Uzita) reticosa* var. n. *woodii* Pliocene, HARMER Plioc. Moll. 2 pp. 516–519.

†*Nassidae*, YOKOYAMA 566.

Neptunea antiqua subsp. *japonica*, Dtz. & Fisch. = *Chrysodomus intersculptus*, Sow., FULTON London Proc. Malac. Soc. 14 p. 3.

Ocinebra erinaceus var. n. *major* France, DAUTZENBERG J. conchyliol. 65 p. 46.

†*Ocenebra Kendallii* sp. n. Pliocene, HARMER Plioc. Moll. 2 p. 522.

†*Perse* gen. n. *Fusidae*, *P. corrugatum* sp. n. Oligocene U.S.A., CLARK Univ. Cal. Pub. Bul. Dept. Geol. 11 pp. 179-180.

†*Phos* with *P. elegans* var. *portoricensis* var. n. Tertiary Porto Rico, HUBBARD New York Acad. Sci. 3 p. 149.—*P.*, MAURY 349.

Plicifusus johanseni sp. n. Arctic, DALL Rept. Can. Arct. Exp. 8 p. 21A.—*P. (Retifusus) scissuratus*, *P. (Aulacofusus) rhyssoides*, *P. (Latifusus) wakanus* spp. n. Pacific, DALL Proc. S.S. Nation. Mus. 54 pp. 226-227.

†*Pseudoperissolax* gen. n. *Fusidae*, *P. merriami* sp. n. Oligocene U.S.A., CLARK Univ. Cal. Pub. Bul. Dept. Geol. 11 pp. 180-182.

Purpura (Polytropha) lapillus var. n. *citrina*, *cærulescens*, *monozonalis*, *mixta* France, DAUTZENBERG J. conchyliol. 65 p. 47.

†*Purpuroidea*, DIETRICH 165.

†*Pyrula hoveyi* sp. n. Tertiary Porto Rico, MAURY New York Acad. Sci. 3 p. 60.

†*Pyrulofusus schaderi* sp. n. Pliocene, DALL U.S. Geol. Surv. Prof. ppr. 125-c p. 29.

Searlesia constricta sp. n. Pacific, DALL Proc. U.S. Nation. Mus. 54 p. 228.

†*Searlesia dalli* sp. n. Oligocene U.S.A., CLARK Univ. Cal. Pub. Bul. Dept. Geol. 11 p. 175.

Siphonalia lubrica sp. n. Pacific, DALL Proc. U.S. Nation. Mus. 54 p. 230.

†*Siphonalia senilis* sp. n. Tertiary N. Zealand, MARSHALL & MURDOCH Trans. and Proc. N.Z. Inst. 52 p. 131.

Sistrum vitiense sp. n. Hawaii, PILSBRY Proc. Acad. Nat. Sci. Philad. 1920 p. 319.

†*Strombina portoricana* sp. n. Tertiary Porto Rico, HUBBARD New York Acad. Sci. 3 p. 149.

†*Thais packi* sp. n. Oligocene U.S.A., CLARK Univ. Cal. Pub. Bul. Dept. Geol. 11 p. 177.—*T. (Nucella) nomeana* sp. n. Pliocene, DALL U.S. Geol. Surv. Prof. ppr. 125 c p. 29.

†*Thersitea*, SAVORNIN 445.

Tritonalia fraseri sp. n. W. Coast N. America, OLDROYD Nautilus 33 p. 135.

†*Turbinella chipolana* varr. *precursor*, *areciboense* varr. n. Tertiary Porto Rico, HUBBARD New York Acad. Sci. 3 pp. 153-154.

Verconella, [ANON.] 16.

Vexillum thaanumi, *xenium*, *micra*, *turben kanaka* spp. & subsp. n. Hawaii, PILSBRY Proc. Acad. Nat. Sci. Philad. 1920 pp. 316-318.—*V. thaanumi* sp. n. Hawaii, PILSBRY t.c. p. 372.

Volutopsius stefanssoni sp. n. Arctic, DALL Rept. Can. Arct. Exp. 8 p. 22A.

†*Xancus*, HUBBARD 265.

CYMATIDÆ (*Lotoriidae olim*); CASSIDIDÆ, TONNIDÆ (*Doliidae olim*), CYPRÆIDÆ, STROMBIDÆ, APORRHAIIDÆ & STRUTHIOLARIIDÆ.

†*Alaria*, DIETRICH 165.

Aporrhais, SCHITZ 449.

†*Arrhoges*, ROMAN & MAZERAN 438.

†*Cassis*, HUBBARD 265.

†*Chenopus*, DIETRICH 165.—*C.*, ROMAN & MAZERAN 433.

Colubraria juanica sp. n. Tertiary Porto Rico, MAURY New York Acad. Sci. 3 p. 61.

Cypraea bernardinae, Preston, MELVILL 354.

†*Cypraea depéreti* sp. n. Cretaceous France, ROMAN & MAZERAN Lyon Arch. Mus. hist. nat. 12 p. 62.—*C. sancti-sebastiani* sp. n. Tertiary Porto Rico, MAURY New York Acad. Sci. 3 p. 58.—*C.*, HUBBARD 265.

†*Dicroloma*, ROMAN & MAZERAN 433.

†*Doliidae*, YOKOYAMA 566.

†*Malea*, HUBBARD 256.—*M.*, MAURY 349.

Morio with *M. cylindrica* ? sp. n. Mediterranean, COEN Atti Soc. Ital. Nat. 59 pp. 129-135.

†*Orthaulax aguadillensis* sp. n. Tertiary Porto Rico, MAURY New York Acad. Sci. 3 p. 58.—*O.* with *O. portoricensis* sp. n. Tertiary Porto Rico, HUBBARD New York Acad. Sci. 3 pp. 145-146.

Ovula insculpta sp. n. Madagascar, ODHNER Ark. Zool. 12 p. 37.

†*Pereiraia*, SAVORNIN 445.

†*Pholium fibratum* sp. n. Tertiary N. Zealand, MARSHALL & MURDOCH Trans. and Proc. N.Z. Inst. 52 p. 131.

†*Pterodonta*, ROMAN & MAZERAN 433.

Strombus ostergaardii sp. n. Hawaii, PILSBRY Proc. Acad. Nat. Sci. Philad. 1920 p. 320.—S., MACCLENDON 328a.

†*Strombus*, HUBBARD 265.—S., MAURY 349.

†*Struthiolaria zelandiae* sp. n. Tertiary N. Zealand, MARSHALL & MURDOCH Trans. and Proc. N.Z. Inst. 52 p. 130.

†*Tritonidae*, YOKOYAMA 566.

CERITHIIDÆ, PLANAXIDÆ, NERINEIDÆ, TRICHOTROPIDIDÆ, VERMETIDÆ, TURRITELLIDÆ, & CAECIDÆ.

Batillaria, CHARPIAT 115.

Bittium, SCHITZ 448.

†*Bittium dissimile* sp. n. Pliocene, HARMER Plioc. Moll. 2 p. 526.—B., HUBBARD 265.

Cæcum oahuense sp. n. Hawaii, PILSBRY Proc. Acad. Nat. Sci. Philad. 1920 p. 375.

†*Cerithiidae*, YOKOYAMA 566.

†*Cerithiopsidae*, YOKOYAMA 566.

Cerithiopsis apicostata, mamilla spp. n. Tasmania, MAY Proc. R. Soc. Tasmania 1919 p. 65.

Cerithium, SCHITZ 448.

†*Cerithium portoricoensis, quebradilensis, C. (Campanile) collazum* spp. n. Tertiary Porto Rico, HUBBARD New York Acad. Sci. 3 pp. 141–143.—*C. russelli arecibense, C. utuadicum* var. & sp. n. Tertiary Porto Rico, MAURY New York Acad. Sci. 3 p. 50.—*C.*, DIETRICH 165.

†*Itieria (Campicheia) zwierzyckii* sp. n. Jura E. Africa, DIETRICH Berlin Arch. Biontol. 3 p. 145.

†*[Loxotrema] Aramacensis* sp. n. Lower Cretaceous Queensland, ETHERIDGE Qland. Geol. Surv. 269 p. 9.

†*Mesalia palaeocretacea* sp. n. Jura E. Africa, DIETRICH Berlin Arch. Biontol. 3 p. 133.—M., RUSSO 439.

†*Modulus*, HUBBARD 265.

†*Nerinea* with *N. hennigi, N. (Diozopyxis) toucasiaephila, N. (? D.) carota* spp. n. Jura E. Africa, DIETRICH Berlin Arch. Biontol. 3 pp. 134–141.—N., ROMAN & MAZERAN 433.

†*Nerinella*, DIETRICH 165.

†*Omphalia*, DIETRICH 165.

†*Petalococonchus* with *P. ? collazoensis* sp. n. Tertiary Porto Rico, HUBBARD New York Acad. Sci. pp. 139–140.

†*Portoricia* sec. n. *Campanile, C. (P.) laricum* sp. n. Tertiary Porto Rico, MAURY New York Acad. Sci. 3 pp. 54–55.

†*Potamides (Cerithidea) brauneri* sp. n. Oligocene U.S.A., CLARK Univ. Cal. Pub. Bul. Dept. Geol. 11 p. 171.

†*Procerithiopsis* gen. n. with *P. ambiguus* sp. n. Permian, MANSUY Mem. Serv. géol. Indochine 3 pp. 50–51.

†*Promathildia pacifica* sp. n. Trias Timor, JAWORSKI Stuttgart Pal. Timor p. 130.

†*Ptygmatis*, DIETRICH 165.

†*Seila attenuissima* sp. n. Tertiary N. Zealand, MARSHALL & MURDOCH Trans. and Proc. N.Z. Inst. 52 p. 129.

†*Terebralia*, ROMAN & MAZERAN 433

†*Tiaracerithium*, CHARPIAT 114.

†*Trichotropidae*, YOKOYAMA 566.

†*Triphora aoteaensis* sp. n. Tertiary N. Zealand, MARSHALL & MURDOCH Trans. and Proc. N.Z. Inst. 52 p. 129.—T., MAY 352.

Turritella, MAY 352.—T., SCHITZ 448.

†*Turritella* with *T. porterensis, sobrantensis* spp. n. Oligocene U.S.A., CLARK Univ. Cal. Pub. Bul. Dept. Geol. 11 pp. 170–171.—*T. attilira culebrina, T. collacica, poncensis, guanicensis* var. & sp. n. Tertiary Porto Rico, MAURY New York Acad. Sci. 3 pp. 51–52.—*T.* with *T. tornata* var. *portoricoensis, T. mitchelli, portoricoensis, berkeyi* var. & spp. n. Tertiary Porto Rico, HUBBARD New York Acad. Sci. 3 pp. 136–139.—*T.* with *T. russoi* sp. n. Eocene W. Morocco, RUSSO Paris C. R. Acad. Sci. 170 p. 123.—*T. (?) circumcircula, walshensis, microlinea* spp. n. Lower Cretaceous Queensland, ETHERIDGE Qland. Geol. Surv. 269 pp. 12–13.—T., ROMAN & MAZERAN 433.—T., DIETRICH 165.

†*Turritellidae*, YOKOYAMA 566.

†*Uchauxia* with *U. richei* sp. n. Cretaceous France, ROMAN & MAZERAN Lyon Arch. Mus. hist. nat. 12 pp. 54-55.

Vermetidae, YOKOYAMA 566.

TIARIDÆ (*Melaniidæ olim*), PSEUDO-MELANIIDÆ, PLEUROCERIDÆ, LITTORINIDÆ & FOSSARIDÆ.

Acrostoma, ANNANDALE 8.

†*Compsopleura*, HENDERSON 242.

Creminoconchus syhadrensis, ANNANDALE 7.—*C.*, ANNANDALE & PRASHAD, 12.

Fossarus ecphora sp. n. Hawaii, PILSBRY Proc. Acad. Nat. Sci. Philad. 1920 p. 375.

†*Glauconia*, ROMAN & MAZERAN 433.

Goniobasis goodrichi sp. n. Tennessee, HINKLEY Univ. Mich. occ. pprs. Mus. Zool. 78 p. 1.

Littorina littorea, CAULLERY & PELSENEER 94.—*L.*, TATTERSALL 478.

†*Littorina* with *L. littorea* varr. n. *parva*, *distorta*, *conica*, *complanata*, *angulata*, *truncata* Pliocene, HARMER Plioc. Moll. 2 pp. 645-652.

†*Loxonema praecursor* sp. n., MANSUY Mem. Serv. géol. Indochine 3 p. 10.—*L.* (?) *parva* sp. n. Permian U.S.A., STAUFFER & SCHROYER Ohio. Geol. Surv. 22 p. 145.

Melania, ANNANDALE 8.—*M.*, ANNANDALE & PRASHAD 12.

Melanooides, ANNANDALE 8.

Melanopsis with *M. ricardi* var. [? n.] *major*; *M. excoriata* varr. [? n.] *minor*, *semisulcata*, *festiva*; *M. marocana* varr. [? n.] *ampla*, *media*; *M. laevigata* var. [? n.] *minor*; *M. pseudoferussaci* var. [? n.] *minor*; *M. fasensis* varr. [? n.] *zebrina*, *cristata*, *minor*; *M. torquilla* var. [? n.] *minor*; *M. douettei* varr. [? n.] *major*, *laevis*, *decorata*, *decorata minor*, *perornata*; *M. magnifica* var. [? n.] *serira* MOROCCO, PALLARY J. conchyliol. 65 pp. 140-153.

†*Oonia gappi* sp. n. Jura, KITTL Wien Ann. Nat. Hist. Hofmus. 30 p. 54.

Pachycheilus pottsianus sp. n. Guatemala, HINKLEY Nautilus 34 p. 54.—*P.*, PILSBRY 407.

†*Palaeostylus* gen. n. with *P. pupoides*, *dussaulti*, *indosinicus*, *intermedius* spp. n. Permian, MANSUY Mem. Serv. géol. Indochine 3 pp. 48-50.

Paludomus obesa, ANNANDALE & PRASHAD 12.

Plotia fusulus sp. n. Aru Isds., BOETTGER Abh. Senckenb. Ges. 35 p. 134.

†*Pseudomelania* with *P. (Oonia) recki*, *P. (Trajanella) fraasi* spp. n. Jura E. Africa, DIETRICH Berlin Arch. Biontol. 3 pp. 129-131.—*P.*, ROMAN & MAZERAN 433.

†*Riselloidea*, COUFFON 136.

†*Scutularia* gen. n. with *S. textilis* sp. n. Permian, MANSUY Mem. Serv. géol. Indochine 3 p. 48.

†*Soleniscus elegantulus* sp. n. Permian, MANSUY Mem. Serv. géol. Indochine 3 p. 45.

Sphaeromelania hinkleyi sp. n. Guatemala, MARSHALL U.S. Nation. Mus. Proc. 58 p. 301.

Taia, ANNANDALE 8.

SOLARIIDÆ, JEFFREYSIIDÆ, LITIOPIDÆ, RISSOIDÆ, HYDROBIIDÆ, VIVIPARIDÆ, VALVATIDÆ, AMPULLARIIDÆ & ASSIMINEIDÆ.

†*Alvania* with *A. belli* sp. n. Pliocene, HARMER Plioc. Moll. 2 pp. 606-621.

Amnicola (Alocinma), ANNANDALE 7.

†*Amnicola winkleyi leightoni* var. n. Pleistocene U.S.A., BAKER Nautilus 33 p. 125

Amphithalamus luteofuscus sp. n. Tasmania, MAY Proc. R. Soc. Tasmania 1919 p. 63.

Ampullaria lattarei subsp. n. *chamana* Guatemala, HINKLEY Nautilus 34 p. 53.—*A. nux*, ANNANDALE & PRASHAD 12.—*A. gigas*, SACHWATKIN 443.—*A.*, GERMAIN 203.

Assemania ostiorum sp. n. France, BAVAY J. conchyliol. Paris 46 p. 161.

Barleeia with *B. dalli*, *bentleyi*, *sanjuanensis*, *oldroydi*, *californica*, *orculti*, *coronadoensis*, *carpenteri*, spp. n. California, BARTSOH U.S. Nation. Mus. Proc. 58 pp. 166-175.

Blanfordia nosophora, CORT 135.

Bithynia tentaculata, BOYCOTT 72.—*B.*, ANNANDALE 7.

Bythinella dunkeri, BREGENZER 75.

Cochliopa with *C. hinkleyi*, *minor*, *izabal* spp. n. Guatemala, PILSBRY Proc. Acad. Nat. Sci. Philad. 72 pp. 197–201.—*C. dulcensis* sp. n. Guatemala MARSHALL U.S. Nation. Mus. Proc. 58 p. 302.

Diala, MAY 352.

Estea with *E. microcosta*, *perpolita*, *labrotoma* spp. n. Tasmania, MAY Proc. R. Soc. Tasmania 1919 pp. 60–61 69.

†*Euomphalus khmerianus* sp. n. Permian, MANSUY Mem. Serv. géol. Indochine 3 p. 40.—*E.* with *E. carrollensis* sp. n. Carbon. N.S. Wales, BENSON, DUN & BROWNE Proc. Linn. Soc. N.S.W. 45 p. 360.

Haurakia supracostata sp. n. Tasmania, MAY Proc. R. Soc. Tasmania 1919 p. 62.

Heliacus panamensis sp. n. Panama, BARTSCH Proc. U.S. Nation. Mus. 54 p. 573.

Hydrobiidae, ANNANDALE 7.

Hydrobioides, ANNANDALE 7.

Lanistes, GERMAIN 203.

Lecythoconcha gen. n. *Viviparidae*, ANNANDALE Rec. Ind. Mus. Calcutta 19 p. 114.

Lippistes consobrina, sp. n. Tasmania, MAY Proc. R. Soc. Tasmania 1919 p. 64.

Merelina sculptilis, sp. n. Tasmania, MAY Proc. R. Soc. Tasmania 1919 p. 62.

Mysorella, ANNANDALE 7.

Mysorellinae subfam. n. of *Hydrobiidae* for *Mysorella*, Godwin Austen, ANNANDALE Rec. Ind. Mus. Calcutta 19 pp. 41–46.

Notosetia purpureostoma sp. n. Tasmania, MAY Proc. R. Soc. Tasmania 1919 p. 63.

Pachylabra with *P. angelica*, *P. turbinis* race *lacustris* sp. & race n. Siam. ANNANDALE J. Nat. Hist. Soc. Siam 4 pp. 4–23 & 45.

†*Paludina*, HENDERSON 242.

Paludinae, BÜTIKOFER 85.

Paludestrina jenkinsi, HOLLIS 262.—*P. j.*, QUICK, 416.—*P. j.*, ROBSON, 427 & 428.—*P. stagnalis*, ROBSON 429.—*P. s.*, QUICK 415.—*P.*, NEWTON 369.

Paranerita subgen. n. of *Hydrobioides*, ANNANDALE Rec. Ind. Mus. Calcutta 19 pp. 41–46.

†*Rissoa* with *R. dissimilis* sp. n. Pliocene, HARMER Plioc. Moll. 2 pp. 625–636.

Rissoella with *R. excolpa* sp. n. California, BARTSCH U.S. Nation. Mus. Proc. 58 pp. 160–162.

†*Rissoidae*, YOKOYAMA 566.

Rissoina striatula hawaiiensis subsp. n. Hawaii, PILSBRY Proc. Acad. Nat. Sci. Philad. 1920 p. 321.

†*Rissoina obliquecostata* sp. n. Tertiary N. Zealand, MARSHALL & MURDOCH Trans. and Proc. N.Z. Inst. 52 p. 128.

Rissoopsis brevis, sp. n. Tasmania, MAY Proc. R. Soc. Tasmania 1919 p. 63.

Sataria gen. n. for *Bithynia evezardi*, Blandford, ANNANDALE Rec. Ind. Mus. Calcutta 19 p. 41–46.

†*Skeneidae*, YOKOYAMA 566.

†*Solariidae*, YOKOYAMA 566.

†*Solarium* with *S. lindiensis* sp. n. Jura E: Africa, DIETRICH Berlin Arch. Biontol. 3 pp. 127–128.

Syncera with *S. panamensis* Panama; *S. magdalenensis* California spp. n., BARTSCH U.S. Nation. Mus. Proc. 58 pp. 163–166.

Temnotaia, ANNANDALE 8.

Valvatidae, BÜTIKOFER 85.

Vivipara [vide etiam *Viviparus*] *decepiens aruana* subsp. n. Ayu Isls., BOETTGER Abh. Senckenb. Ges. 35 p. 135.—*V.*, ANNANDALE 8.

Viviparus [vide etiam *Viripara*], KENNARD & WOODWARD 296.

†*Viviparus*, NEWTON 369.

CYCLOPHORIDÆ, CYCLOSTOMATIDÆ & TRUNCATELLIDÆ.

Abbottella gen. n., HENDERSON & BARTSCH U.S. Nation. Mus. Proc. 58 p. 75.

Adamsiella, Pfr. with *Adamsiellops* subgen. n., HENDERSON & BARTSCH U.S. Nation. Mus. Proc. 58 pp. 70–71.

Adamsiellinae subfam. n., HENDERSON & BARTSCH U.S. Nation. Mus. Proc. 58 p. 70.

Acme, HESSE 249.

†*Acme*, HESSE 249.

Annularia with *Annularisca*, *Annularosa*, *Annularita*, *Annularella*, *Annularops*, *Annularodes* subgen. n., HENDERSON & BARTSCH U.S. Nation. Mus. Proc. 58 pp. 71-74.

Annulariidae fam. n., HENDERSON & BARTSCH U.S. Nation. Mus. Proc. 58 p. 54.

Annularinae subfam. n., HENDERSON & BARTSCH U.S. Nation. Mus. Proc. 58 p. 71.

Blaesospira, HENDERSON & BARTSCH 244.

Chondropomatus, *Chondropomium*, *Chondropometes*, *Chondropomartes*, *Chondropomorus* subgen. n. of *Chondropoma*, HENDERSON & BARTSCH U.S. Nation. Mus. Proc. 58 pp. 59-61.

Chondropominae subfam. n., HENDERSON & BARTSCH U.S. Nation. Mus. Proc. 58 p. 59.

Chondrothyra gen. n. with *Chondrothyrium*, *Chondrothyroma*, *Chondrothyra*, *Chondrothyretes* subgen. n., HENDERSON & BARTSCH U.S. Nation. Mus. Proc. 58 pp. 62-64.

Cyclotus mamillaris sp. n. Madagascar, ODHNER Ark. Zool. 12 p. 50.

Diplommatina decaryi sp. n. Madagascar, BAVAY & GERMAIN Bul. Mus. Paris 1920 p. 157.

Diplopoma, Pfr., HENDERSON & BARTSCH 244.

Eutudora gen. n. with *Eutudorisca*, *Eutudorella*, *Eutudora*, *Eutudorops* subgen. n. and *Eutudora* (*Eutudorops*) *azucarensis* sp. n. Cuba, HENDERSON & BARTSCH U.S. Nation. Mus. Proc. 58 pp. 78 & 82.

Jamaicia, C. B. Ads., HENDERSON & BARTSCH 244.

Leonia mamillaris var. [? n.] *turriculata* Morocco, PALLARY J. conchyliol. 65 p. 140.

Leptopoma maubanense makabengana subsp. n. Philippines, BARTSCH Proc. U.S. Nation. Mus. 56 p. 306.

Opisthosiphon with *Opisthosiphona* subgen. n., HENDERSON & BARTSCH U.S. Nation. Mus. Proc. 58 p. 67.—*O. maynardi* sp. n. Bahamas, VANATTA Proc. Acad. Nat. Sci. Philad. 72 p. 204.

Omphalotropis aurata sp. n. Madagascar, ODHNER Ark. Zool. 12 p. 50.—*O. (Stenotropis) subimperfurata* sp. n. Society Isds., BOETTGER Abh. Senckenb. Ges. 36 p. 304.

Parachondria, Dall with *P. (P.) gonavicola* sp. n. Haiti, and *Parachondrisca*, *Parachondrella*, *Parachondrops* subgen. n., HENDERSON & BARTSCH U.S. Nation. Mus. Proc. 58 pp. 65-66 & 80.

Ramsdenia, Preston, HENDERSON & BARTSCH 244.

†*Rhiostoma americana* sp. n. Oregon Miocene, HANNA Univ. Oregon Publ. 1 p. 5.

Rhytidopoma, HENDERSON & BARTSCH 244.

Rhytidopominae subfam. n., HENDERSON & BARTSCH U.S. Nation. Mus. Proc. 58 p. 64.

Rhytidothyra gen. n., HENDERSON & BARTSCH U.S. Nation. Mus. Proc. 58 p. 65.

Stoastoma domingensis sp. n. Haiti, VANATTA Proc. Acad. Nat. Sci. Philad. 72 p. 206.

Torrella with *T. (Torrellisca) simpsoni* sp. n. Cuba; and *Torrellisca* subgen. n., HENDERSON & BARTSCH U.S. Nation. Mus. Proc. 58 pp. 69 & 80.

Tudora with *T. (T.) abbotti* sp. n. Haiti; and *Tudorellata*, *Tudorisca*, *Tudorops* subgen. n., HENDERSON & BARTSCH U.S. Nation. Mus. Proc. 58 pp. 75-77 & 81.

Xenopoma, HENDERSON & BARTSCH 244.

HIPPONYCIDÆ, CAPULIDÆ, XENOPHORIDÆ, NARICIDÆ, ADEORBIIDÆ, LAMELLARIIDÆ & NATICIDÆ.

†*Amauropsis*, MAURY 349.—A., ROMAN & MAZERAN 433.

†*Ampullina*, ROMAN & MAZERAN 433.—A., DIETRICH 165.

†*Calyptrea*, HUBBARD 265.—C., MAURY 349.

†*Capulidae*, YOKOYAMA 566.

†*Crucibulum* with *C. auricula* var. *portoricoensis*, *C. (Dispotaea) collazum* var. & sp. n. Tertiary Porto Rico, HUBBARD New York Acad. Sci. 3 pp. 133–134.

†*Diaphorostoma quadrangulare* sp. n. Devon U.S.A., DUNBAR New Haven Conn. Trans. Acad. Arts. Sci. 23 p. 147.

†*Hipponyx portoricoensis* sp. n. Tertiary Porto Rico, HUBBARD New York Acad. Sci. 3 p. 132.

Lamellaria (Chelynotus) malayica sp. n. Aru Isds., BOETTGER Abh. Senckenb. Ges. 35 p. 132.

†*Metoptoma gigantea* sp. n. Permian, MANSUY Mem. Serv. géol. Indochine 3 p. 51.

Natica, HIRSCH 256.

†*Natica* with *N. substolida* var. n. *grandis* Miocene S. Australia, CHAPMAN Proc. R. Soc. Vict. 32 p. 239.—*N.* with *N. crassitesta* sp. n. Jura E. Africa, DIETRICH Berlin Arch. Biontol. 3 p. 124.—*N.* with *N. (Ampullina) collazoensis* sp. n. Tertiary Porto Rico, HUBBARD New York Acad. Sci. 3 p. 134.—*N. (Ampullina) gabbi*, *N. (Euspira) ramonensis*, *N. (Neverita) recluziana andersoni* spp. & var. n. Oligocene U.S.A., CLARK Univ. Cal. Pub. Bul. Dept. Geol. 11 p. 166.—*N.*, HENDERSON 242.—*N.*, MAURY 349.

†*Naticella americana* sp. n. Carbon. U.S.A., GIRTY Mem. Bur. Geol. Mines 13 p. 359.

†*Naticidae*, YOKOYAMA 566.

Polinices catenoides, sp. n. Tasmania, MAY Proc. R. Soc. Tasmania 1919 p. 57.

†*Polyphemopsis gracilis, melanoides* spp. n. Permian, MANSUY Mem. Serv. géol. Indochine 3 pp. 46–47.—*P. melanoides* sp. n. Carbon, MANSUY Mem. Serv. géol. Indochine 3 p. 12.

†*Sigaretus inflatus* sp. n. Tertiary Timor, TESCH Pal. Timor 8 p. 67.

Vanikoro hawaiiensis, kanakarum spp. n. Hawaii, PILSBRY Proc. Acad. Nat. Sci. Philad. 1920 pp. 373–374.

†[*Vanikoropsis*] *decussatus* sp. n. Lower Cretaceous Queensland, ETHERIDGE Qland. Geol. Surv. 269 p. 11.

†*Xenophora solariformis* sp. n. Tertiary Timor, TESCH Pal. Timor 8 p. 73.—*X.*, HUBBARD 265.—*X.*, MAURY 349.—*X.*, ROMAN & MAZERAN 433.

EPITONIIDÆ (*Scalidæ olim*).

Cirsotrema soror sp. n. Madagascar, ODHNER Ark. Zool. 12 p. 35.

†*Confusiscala uchauxensis* sp. n. Cretaceous France, ROMAN & MAZERAN Lyon Arch. Mus. hist. nat. 12 p. 39.

Epitonium with *E. kanemoe, ulu, oahuense* spp. n. Hawaii, PILSBRY Proc. Acad. Nat. Sci. Philad. 1920 pp. 275–276.

†*Epitonium pinolensis, ventricosum* spp. n. Oligocene U.S.A., CLARK Univ. Cal. Pub. Bul. Dept. Geol. 11 p. 164.—*E.* with *E. (Cirsotrema) collazoensis* sp. n. Tertiary Porto Rico, HUBBARD New York Acad. Sci. 3 p. 135.

†*Scala* with *S. (Spiniscala) oakleyensis*, (*Lepidoscala*) *cavelli*, (*Fusco-scala*) *moorei*, (*Gyroscala*) *canhami, inedita* spp. n. Pliocene, HARMER Plioc. Moll. 2 pp. 527–558.

†*Scalaria verbeeki, molengraaffi* spp. n. Tertiary Timor, TESCH Pal. Timor pp. 62–63.

†*Scalaridae*, YOKOYAMA 566.

STROMBIFORMIDÆ (*Eulimidæ olim*) & PYRAMIDELLIDÆ.

†*Bulimidae* [? *Eulimidae*], YOKOYAMA 566.

Cambodgia gen. n. with *C. sinistrorsa* sp. n. Permian, MANSUY Mem. Serv. géol. Indochine 3 p. 47.

Eulima, MAY 352.

†*Eulima lidacensis* sp. n. Tertiary Timor, TESCH Pal. Timor 8 p. 65.—*E.* with *E. minima, tenuissima* spp. n. Pliocene, HARMER Plioc. Moll. 2 pp. 587–592.—*E.*, ROMAN & MAZERAN 433.

Odostomia (Chrysallida) hiloensis sp. n. Hawaii, PILSBRY Proc. Acad. Nat. Sci. Philad. 1920 p. 299.—*O. (Chrysallida) zeteki* sp. n. Panama, BARTSCH Proc. U.S. Nation. Mus. p. 572.—*O. (Chrysallida) euglypta, Evalea edmondi* spp. n. California, JORDAN U.S. Nation. Mus. Proc. 58 pp. 2 & 3.

†*Odostomia* with *O. densa, fastigiata* spp. n. Pliocene, HARMER Plioc. Moll. 2 pp. 599–604.

Protostylus gen. n. with *P. lantenoisi*, *dussaulti* spp. n. Carbon., MANSUY Mem. Serv. géol. Indochine 3 pp. 11-12.

†*Pyramidella portoricensis* sp. n. Tertiary Porto Rico, HUBBARD New York Acad. Sci. 3 p. 140.—*P. (Elusa) subglabra* sp. n. Madagascar, ODHNER Ark. Zool. 12 p. 16.

†*Pyramidellidae*, YOKOYAMA 566.

Stylifer with *S. deformis hawaiiensis*, *S. d. remotissimus*, *S. thaanumi* subspp. & sp. n. Hawaii, PILSBRY Proc. Acad. Nat. Sci. Philad. 1920 pp. 296-299.

†*Turbonilla* with *T. kendalli*, *expallida*, *dubiosa*, *parvula*, *T. (Pyrgostelis) varicula* var. *expansa*, *T. (P.) ignota*, *T. (Pyrgolidium) internodula* varr. *acuminata* and *conica* spp. & varr. n. Pliocene, HARMER Plioc. Moll. 2 pp. 559-575.

†*Vernedia*, ROMAN & MAZERAN 433.

PROSERPINIDÆ & HELICINIDÆ.

Georissa detrita sp. n. Madagascar, BAVAY & GERMAIN Bul. Mus. Paris 1920 p. 158.

Helicina abbotti sp. n. Haiti, VANATTA Proc. Acad. Nat. Sci. Philad. 72 p. 205.—*H. deppeana parvidens* subsp. n. Costa Rica, PILSBRY Proc. Acad. Nat. Sci. Philad. 72 p. 3.—*H. oaxacana* sp. n. Mexico, PILSBRY Proc. Acad. Nat. Sci. Philad. 72 p. 196.

†*Helicina oregona* sp. n. Oregon Miocene, HANNA Univ. Oregon Publ. 1 p. 4.

Schasicheila hinkleyi sp. n. Guatemala, PILSBRY Proc. Acad. Nat. Sci. Philad. 71 p. 221.—*S. walkeri* sp. n. Guatemala, HINKLEY Nautilus 34 p. 53.

NERITIDÆ, NERITOPSIDÆ, TURBINIDÆ, TROCHIDÆ & ORBITESTELLIDÆ (*Cyclostrematidæ olim*).

†*Calliostoma portoricensis* sp. n. Tertiary Porto Rico, HUBBARD New York Acad. Sci. 3 p. 129.—*C. lawsoni* sp. n. Oligocene U.S.A., CLARK Univ. Cal. Pub. Bul. Dept. Geol. 11 p. 163.—*C.*, DIETRICH 165.

Cantharidella dolorosa, HEDLEY 236.

†*Chrysostoma staffi*, sp. n. Jura E. Africa, DIETRICH Berlin Arch. Biontol. 3 p. 122.

†*Clanculus*, ROMAN & MAZERAN 433.

†*Cyclostrematidae*, YOKOYAMA 566.

†*Delphinula* with *D. pelossei* sp. n. Cretaceous Franco, ROMAN & MAZERAN Lyon Arch. Mus. hist. nat. 12 pp. 32-33.

Discopsis panamensis, *argentea* spp. n. Panama, BARTSCH Proc. U.S. Nation. Mus. 54 p. 574.

Leptothyra with *L. balnearii*, *varia* spp. n. Hawaii, PILSBRY Proc. Acad. Nat. Sci. Philad. 1920 pp. 377-379.

†*Liotia (Arene) coronata* var. *portoricensis* var. n. Tertiary Porto Rico, HUBBARD New York Acad. Sci. 3 p. 131.

†*Margarita böhmi* sp. n. Jura E. Africa, DIETRICH Berlin Arch. Biontol. 3 p. 121.

Margarites umbilicalis spiralis var. n. Arctic Seas, BAKER N.Y. Bul. Amer. Mus. Nat. Hist. 41 p. 504.—*M. ecarinatus* sp. n. Arctic, DALL Rept. Can. Arct. Exp. 8 p. 22A.

Monodonta (Trochocochlea) crassa var. n. *jacuriana* Tangier, COEN Atti Soc. Ital. Sci. Nat. 58 p. 304.

†*Monodonta allardi* sp. n. Cretaceous France, ROMAN & MAZERAN Lyon Arch. Mus. hist. nat. 12 p. 36.

Minolia variegata sp. n. Madagascar, ODHNER Ark. Zool. 12 p. 32.

†[*Minolia*] *cretacea* sp. n. Lower Cretaceous Queensland, ETHERIDGE Qland. Geol. Surv. 269 p. 14.

†*Naticopsis hologyroides* sp. n. Permian, MANSUY Mem. Serv. géol. Indochine 3 p. 42.—*N. obliqua* sp. n. Carbon N.S. Wales, BENSON, DUN & BROWNE Proc. Linn. Soc. N.S.W. 45 p. 362.—*N. scintilla* sp. n. Carbon U.S.A., GIRTY Miss. Bur. Geol. Mines 13 p. 358.—*N. (?) diminuta* sp. n. Permian U.S.A., STAUFFER & SCHROYER Ohio Geol. Surv. 22 p. 145.

†*Nerita* with *N. (Lissochilus) stremmei* sp. n. Jura E. Africa, DIETRICH Berlin Arch. Biontol. 3 p. 126.—*N. (Odontostoma) bruni* sp. n. Cretaceous France, ROMAN & MAZERAN Lyon Arch. Mus. hist. nat. 12 p. 38.

Neritilia with *N. succinea guatemalensis* subsp. n. Guatemala, PILSBRY Proc. Acad. Nat. Sci. Philad. 71 pp. 219–220.

Neritina marteli varr. [? n.] ex colore, marmorata, nigra, violacea, rubra, lutea MOROCCO, PALLARY J. conchyliol. 65 pp. 154–155.

†*Neritina collazoensis* sp. n. Tertiary Porto Rico, HUBBARD New York Acad. Sci. 3 p. 132.

†*Neritopsis* with *N. Des Gayetsi* sp. n. Cretaceous France, ROMAN & MAZERAN Lyon Arch. Mus. hist. nat. 12 pp. 36–37.

Orbitestella iredalei sp. n. Tasmania, MAY Proc. R. Soc. Tasmania 1919 p. 65.

Phasianella pullus varr. n. pallida, griseola France, DAUTZENBERG J. conchyliol. 65 p. 56.—*P. zigzag* sp. n. Madagascar, ODHNER Ark. Zool. 12 p. 31.

†*Phasianella*, ROMAN & MAZERAN 433.

†*Photinula*, DIETRICH 165.

†*Straparollus davidis* sp. n. Carbon. N.S. Wales, BENSON, DUN & BROWNE Proc. Linn. Soc. N.S.W. 45 p. 361.

†*Trachydomia deprali* sp. n. Permian MANSUY Mem. Serv. géol. Indochine 3 p. 44.

†*Trochidae*, YOKOYAMA 566.

†*Trochus remesi* sp. n. Eocene, OPPENHEIM Wien Verh. Geol. Rchs-Anst. 1914 p. 195.—*T. dumasi, mingaudi* spp. n. Cretaceous France, ROMAN & MAZERAN Lyon Arch. Mus. hist. nat. 12 p. 34.—*T.* with *T. brancai*, *T. (Tectus) langei* spp. n. Jura E. Africa, DIETRICH Berlin Arch. Biontol. 3 pp. 118–119.—*T. (Monilea) wanneri*, (*Euchelus*) *sphaericus* spp. n. Tertiary Timor, TESCH Pal. Timor 8 pp. 75–76.

†*Turbinidae*, YOKOYAMA 566.

†*Turbo fetkii, dominicensis* var. *quebradillensis* sp. & var. n. Tertiary Porto Rico, HUBBARD New York Acad. Sci. 3 p. 129.

Zalapais, MAY 352.

STOMATIDÆ, COCCULINIDÆ, HALIOTIDÆ
PLEUROTOMARIIDÆ, BELLEROPHON-
TIDÆ & FISSURELLIDÆ.

†*Baylea dilatata* sp. n. Carbon, MANSUY Mem. Serv. géol. Indochine 3 p. 10.

†*Bucania* with *B. evoluta, gravida, playfairi* spp. n. Ordovician, REED Brit. Ord. Sil. Belleroph. 1 pp. 30–33.—*B. nodulosa* sp. n. Permian, MANSUY Mem. Serv. géol. Indochine 3 p. 38.

†*Bucaniella* with *B. quadrisulcata* sp. n. Ordovician, REED Brit. Ord. Sil. Belleroph. 1 pp. 28–30.

†*Conradella* with *C. girvanensis, sladensis, C. ? multilineata* spp. n. Ordovician, REED Brit. Ord. Sil. Belleroph. 1 pp. 44–47

†*Cyrtolites* with *C. budleighensis, craigensis, nodosus* var. *llandoveriana, C. thraivensis* spp. & var. n. Ordovician, REED Brit. Ord. Sil. Belleroph. 1 pp. 23–27.

†*Fissurellidae*, YOKOYAMA 566.

†*Goniospira* gen. n. type *Murchissonia lasallensis*, GIRTY Miss. Bur. Geol. Mines 13 p. 356.

†*Isospira huttoni* sp. n. Ordovician, REED Brit. Ord. Sil. Belleroph. 1 p. 27.

†*Kokenospira* with *K. credibilis, euphemoides, latidorsata, lingualis* var. *girvanensis, maccullochi, mullochensis, nicholsoni* spp. & var. n. Ordovician REED Brit. Ord. Sil. Belleroph. 1 pp. 33–41.

†*Mourlonia* with *M. ornata* sp. n. Carbon. N.S. Wales, BENSON, DUN & BROWNE Proc. Linn. Soc. N.S.W. 45 p. 357.

†*Murchissonia dussaulti* sp. n. Permian, MANSUY Mem. Serv. géol. Indochine 3 p. 40.—*M. missouriensis* sp. n. Carbon. U.S.A., GIRTY Miss. Bur. Geol. Mines 13 p. 355.

†*Oxydiscus* with *O. bougangensis, hunteri* spp. n. Ordovician, REED Brit. Ord. Sil. Belleroph. 1 pp. 18–23.

†*Phanerotrema australis* and var. *alta* sp. & var. n. Carbon. N.S. Wales, BENSON, DUN & BROWNE Proc. Linn. Soc. N.S.W. 45 p. 359.

†*Pleurotomaria loatienensis* sp. n. Carbon., MANSUY Mem. Serv. géol. Indochine 3 p. 9.—*P.* with *P. janenschi* sp. n. Jura E. Africa, DIETRICH Berlin Arch. Biontol. 3 p. 118.—*P. ? per-simplex* sp. n. Carbon. U.S.A., GIRTY Miss. Bur. Geol. Mines 13 p. 355.

†*Ptycomphalus culleni* sp. n. Carbon. N.S. Wales, BENSON, DUN & BROWNE Proc. Linn. Soc. N.S.W. 45 p. 356.

†*Scissurella mödlingensis* form. n. Miocene Austria, TOULA Wien Verh. Geol. RchsAnst. 1918 p. 199.

†*Sinuities* with *S. balclatchiensis*, *discoïdes*, *maccallumi*, *pseudocompressus*, *pusgillensis*, *sondleyensis*, *subrectangularis*, *separatus*, *sphaeroidalis* spp. n. Ordovician, REED Brit. Ord. Sil. Belleroph. 1 pp. 4–17.

†*Sinuitopsis* with *S. congruens* sp. n. Ordovician, REED Brit. Ord. Sil. Belleroph. 1 pp. 17–18.

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†*Temnodiscus* with *T. fletcheri* Silurian *T. monilifer* spp. n., REED Brit. Ord. Sil. Belleroph. 1 pp. 47–48.

†*Tetranota* with *T. carrickensis*, *c. varr. craigensis* and *etheridgei* sp. & *varr. n.* Ordovician, REED Brit. Ord. Sil. Belleroph. 1 pp. 41–43.

†*Worthenia pagoda* sp. n. Permian, MANSUY Mem. Serv. géol. Indochine 3 p. 39.

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†*Acmaeidae*, YOKOYAMA 566.

†*Cryptoctenidia magna* sp. n. Pliocene, DALL U.S. Geol. Surv. Prof. ppr. 125–c. p. 30.

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†*Patella* with *P. kindopensis* sp. n. Jura E. Africa, DIETRICH Berlin Arch. Biontol. 3 p. 116.

†*Patellidae*, YOKOYAMA 566.

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†*Anthraco pupa (?) dunkardana* sp. n. Permian U.S.A., STAUFFER & SCHROYER Ohio Geol. Surv. 22 p. 144.

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†*Aulopea* gen. n. with *A. nelsoni* sp. n. Devon U.S.A., DUNBAR New Haven Conn. Trans. Acad. Arts. Sci. 23 pp. 145–146.

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†*Coelostylina wanneri* sp. n. Trias Timor, JAWORSKI Stuttgart Pal. Timor p. 129.

†*Distemnostoma* gen. n. with *D. princeps*, *curtum* spp. n. Devon U.S.A., DUNBAR New Haven Conn. Trans. Acad. Arts. Sci. 23 pp. 143–145.

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†*Hemizyga* subgen. n. *Zygopleura* with *H. dubia* sp. n. Carbon. U.S.A., GIRTY Miss. Bur. Geol. Mines 13 p. 361.

†*Holopea planidorsata* sp. n. Devon U.S.A., DUNBAR New Haven Conn. Trans. Acad. Arts. Sci. 23 p. 147.

†*Macrochilina acuminata* sp. n. Permian, MANSUY Mem. Serv. géol. Indochine 3 p. 45.

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†*Phaneroptyxis africurgonica* sp. n. Jura E. Africa, DIETRICH Berlin Arch. Biontol. 3 p. 146.

†*Saffordella* gen. n. with *S. tennesseensis* sp. n. Devon U.S.A., DUNBAR New Haven Conn. Trans. Acad. Arts. Sci. 23 pp. 141–142.

†*Telleria praecursor* sp. n. Permian, MANSUY Mem. Serv. géol. Indochine 3 p. 45.

†*Trachynerita infranodosa* sp. n. Jura, KITTL Wien Ann. Nat. Hist. Hofmus. 20 p. 53.

†*Trajanella*, ROMAN & MAZERAN 433.

†*Yunnania meridionalis* sp. n. Permian, MANSUY Mem. Serv. géol. Indochine 3 p. 41.

†*Zygopleura affinis, nana, teres* spp. n. Carbon. U.S.A., GIRTY Miss. Bur. Geol. Mines 13 pp. 359–360.

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†*Actaeon kirkerensis* sp. n. Oligocene U.S.A., CLARK Univ. Cal. Pub. Bul. Dept. Geol. 11 p. 188.

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†*Actaeonella*, DIETRICH 165.—A., ROMAN & MAZERAN 433.

Aelidiella, VAYSSIÈRE 510.

Aglaja with *A. pilsbryi hawaiiensis* subsp. n. Hawaii, PILSBRY Proc. Acad. Nat. Sci. Philad. 1920 pp. 371–372.

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Alys with *A. semistriata mua, s. fordinsulae, kekele* subspp. & sp. n. Hawaii, PILSBRY Proc. Acad. Nat. Sci. Philad. 1920 pp. 364–365.

†*Avellana*, DIETRICH 165.

†*Bucconia reedsi* sp. n. Tertiary Porto Rico, MAURY New York Acad. Sci. 3 p. 76.

†*Bulla*, DIETRICH 165.

†*Bullaria* with *B. portoricensis* sp. n. Tertiary Porto Rico, HUBBARD New York Acad. Sci. 3 p. 162—*B.*, MAURY 349.

Bullina with *B. scabra solida* subsp. n. Hawaii, PILSBRY Proc. Acad. Nat. Sci. Philad. 1920 p. 363.

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Chromodoris, CROZIER 141 & 144.—*C.*, VAYSSIÈRE 510.

Cleodora, MASSY 346.

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Cuvierina, MASSY 346.

†*Cylichna ramonensis* sp. n. Oligocene U.S.A., CLARK Univ. Cal. Pub. Bul. Dept. Geol. 11 p. 188.

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Cymbulia, NICK 370.

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Haminea with *H. olopana* sp. n. Hawaii, PILSBRY Proc. Acad. Nat. Sci. Philad. 1920 pp. 367–370.—*H.*, DRZWINA 172a.

†*Haminea* with *H. quebradillica* sp. n. Tertiary Porto Rico, MAURY New York Acad. Sci. 3 p. 73.

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Melibe, KJERSKOG-AGERSBORG 306.

Opisthobranchia, BOUTAN 69 & 70.—*O.*, HAAS 225.—*O.*, PELSENEER 396.

Peraclis, MASSY 346.

Phyllidia multituberculata sp. n. Aru Isds., BOETTGER Abh. Senckenb. Ges. 35 p. 129.

Platydoris, VAYSSIÈRE 510.

Pleurobranchaea novae-zelandiae, MESTAYER 358.—*P.*, HIRSCH 256.

Pseudoderma, MASSY 346.

Pteropoda, MASSY 347.

Pterotrachea, HIRSCH 256.—*P.*, NICK 370.

†*Ringiculella* with *R. chateleti* sp. n. Cretaceous France, ROMAN & MAZERAN Lyon Arch. Mus. hist. nat. 12 pp. 71–72.

†*Ringiculidae*, YOKOYAMA 566.

†*Scaphandridae*, YOKOYAMA 566.

Spongibranchaea, MASSY 346.

Styliola, MASSY 346.

†*Tentaculites tenuissimus* sp. n. Silurian, HEDE Stockholm Geol. För. Förh. 40 p. 129.

Tethys, KRUMBACH 311.

Tiedemannia, NICK 370.

†*Tornatinidae*, YOKOYAMA 566.

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†*Cochlicopa subrimata* var. n. *procera* Tertiary Germany, GOTTSCHICK Nachr. D. malakozool. Ges. 52 p. 63.

Ennea (Gulella) pallaryi, Preston = *E. vriesiana*, ANCEY, FULTON London Proc. Malac. Soc. 14 p. 3.—*E.*, GUDE 222.

Gastrodonta, GUDE 222.—*G.*, HANNA 230.

†*Gibbulinella* gen. n., WENZ Frankfurt a. M. Senckenbergiana 2 p. 16.

†*Granöennea* gen. n., WENZ Frankfurt a. M. Senckenbergiana 2 p. 16.

Paryphanta atramentaria, BALE 34.

Salasiella hinkleyi Mexico; *S. guatemalensis* Guatemala spp. n., PILSBRY Proc. Acad. Nat. Sci. Philad. 71 pp. 212-213.

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Testacella haliotidea, AMBAYRAC 3.—*T.*, KENNARD & WOODWARD 296.—*T.*, BOWELL 71.

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Arion circumscriptus, SCHLESCH 454.—*A. ater*, SCHLESCH 452.—*A. a.*, PECK 394.—*A.*, SIMROTH 467.

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Eucomulus sterkii, VANATTA 504.

Guppya calverti, costaricana, c. elatior, spp. & subsp. n. Costa Rica, PILSBRY Proc. Acad. Nat. Sci. Philad. 72 pp. 3-5.—*G. elegantula, jalisco* spp. n. Mexico, PILSBRY Proc. Acad. Nat. Sci. Philad. 71 p. 215.

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†*Hyalinia (Hyalinia) subnitens* form. n. *recedens*, *H. (H.) s. var. n. erecta*, *H. (Gyalina) circumcisa* sp. n. Tertiary Germany, GOTTSCHICK Nachr. D. malakozool. Ges. 52 pp. 33-35.—*H. lucida*, MERMOD 356.—*H.*, CAZIOT & MAURY 112.

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Nanina (Xesta) hova sp. n. Madagascar, ODHNER Ark. Zool. 12 p. 43.

Nesonanina gen. n. *N. wolfi* sp. n. Solomon Isds., BOETTGER Abh. Senckenb. Ges. 36 p. 288.

†*Omphalosagda maxima* sp. n. Tertiary Germany, WENZ Frankfurt a. M. Senckenbergiana 1 p. 70.

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Simrothia sec. n. *Limax*, CLESSIN Deutsch. Excur. Moll. Fauna 2nd ed. 1884.

Vitrea (Paravitrea) multidentata and *lamellidens*, CLAPP 119.—*V.*, GUDE 222.—*V.*, LAWSON 321.

†*Vitrea (Vitrea) procrystallina* var. n. *steinheimensis* Tertiary Germany, GOTTSCHICK Nachr. D. malakozool. Ges. 52 p. 37.

Vitrinidae, BÜTIKOFER 85.

Xestina granulosa, Mildff. = *Helix danae*, Pfr., FULTON London Proc. Malac. Soc. 14 p. 3.

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Zonitoides bregyi sp. n. Cuba, VANATTA Proc. Acad. Nat. Sci. Philad. 72 p. 203.
—*Z.*, *nummus*, CLAPP 123.

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Alabastrina with *A. soluta* varr. [? n.] *globulosa*, *minor* Morocco, PALLARY J. conchyliol. 65 pp. 23-24.

†*Ammonitella*, HANNA 230.

Ampelita bizonalis sp. n. Madagascar, ODHNER Ark. Zool. 12 p. 49.

Archelix with *A. faux nigra* varr. [? n.] *unicolor-alba*, *minor*; *A. sphaeromorpha* varr. [? n.] *albicans*, *quinquefasciata*, *lineolata*, *minor*, *depressa subangulata*; *A. ahmarina* var. [? n.] *minor*; *A. ibrahimi* var. [? n.] *minor*; *A. alabastra* var. n. *zonata* Morocco, PALLARY J. conchyliol. 65 pp. 31-37.

Ashmunella, GUDE 222.

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Averellia (*Trichodiscina*) *hinkleyi* sp. n. Guatemala, PILSBRY Proc. Acad. Nat. Sci. Philad. 71 p. 217.

Burmochloritis gen. n. *B. Kengtungensis* sp. n. Burma, GODWIN-AUSTEN Rec. Ind. Mus. Calcutta 19 pp. 9-11.

Cantareus, PALLARY 391.

†*Cepaea eversa larteti*, WENZ 543.

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Cochlicella with *C. barbara* var. [? n.] *raphidia* Morocco, PALLARY J. conchyliol. 65 pp. 20-22.—*C.*, *barbara*, WATSON 526.

Cochlostyla lignaria aguinaldoi, *macrostoma vizcayana*, *carinata lunai*, *luzonica makabengana*, *domingoi*, *schad-*

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enbergi ilongata sp. & subspp. n. Philippines, BARTSCH Proc. U.S. Nation. Mus. 56 pp. 301-304.

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†*Dentellocaracolus*, WENZ 534.

Epiphragmophora cuyamacensis lowei, *traskii isidroensis* subspp. n. S. California or Mexico, BARTSCH Proc. U.S. Nation. Mus. 54 pp. 523-524.—*E. tudiculata allyniana*, *traskii chryso-derma*, *willetti*, *petricola oroles*, *sangabrielis* subspp. n. California, BERRY Proc. Acad. Sci. Cal. 10 pp. 54-64.

†*Epiphragmophora*, HANNA 230.

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†*Galactochiloides* subgen. n. [*Helicidae*], WENZ Frankfurt a. M. Senckenbergiana 1 p. 68.

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†*Helicites sylvestrinus*, WENZ 541.

Helicogena pomatia-burmesteri, *pomatia-brenaënsis* spp. n. Macedonia, BLUME Nachr. D. malakozool. Ges. 52 pp. 90-91.—*H. arbustorum* var. *bifasciata*, KNIGHT 309.

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Helix hortensis var. *aurantia-lutea* var. n. France, TAYLOR J. Conch. Leeds 16 p. 109.—*H. (Tachea) h.*, BUCHNER 77.—*H. aspersa*, CAZIOT 105.—*H. a.*, LAWSON 322.—*H. a.*, MATISSE 348.—*H. a.*, SCHUT 458 & 459.—*H. a.*, VAN RIJNBERK 508.—*H. a.*, VELOSO 512 & 513.—*H. a.*, WATSON 526.—*H.* with *H. venneri* sp. n. France, CAZIOT Nice Riv. Sci. 1 No. 5 1914 pp. 37-38.—*H. acuta*, *subrufescens*, *fusca*, *hammonis*, KENNARD & WOODWARD 296.—*H. cantiana*, DUNLOP 175.—*H. derogata*, *buchi adsharica*, HESSE 250.—*H. nemoralis*, KLÄHN 307.—*H. pomatia*, BANG 35.—*H. p.*, COGNETTI DE MARTIIS 127.—*H. p.*, KUNZE 313.—*H. p.* JUNG 567.—*H. subpampelonensis*, CAZIOT 101.—*H. niciensis*, CAZIOT 109.—*H. (Fruticicola) suberina*, CAZIOT 108.—*H. (Obba)*, OPPENHEIM 381.—*H. (O.)*, THUMA 486.

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†*Helix* with *H. gignouxi* sp. n. Quaternary France, CAZIOT & MAURY Nice Riv. Sci 6 No. 3 1919 pp. 129-131; 6 No. 4 1919 pp. 159-160.

†*Hygromia (Trichiopsis) kleini* form. n. *scalaris* Tertiary Germany, GOTTSCHICK Nachr. D. malakozool. Ges. 52 p. 42.

†*Megalocochlea* gen. n. [*Helicidae*], WENZ Frankfurt a. M. Senckenbergiana 1 p. 68.

Metodonta, GUDE 222.

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†*Oreohelix*, HANNA 230.

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Patula rupestris, CAZIOT 108.

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†*Pleurodonte debooyi* sp. n. Quaternary St. Croix, BARTSCH Proc. U.S. Nation. Mus. 54 p. 605.

Polygyra, GUDE 222.

†*Polygyra multilineata altonensis, profunda pleistocenica* varr. n. Pleistocene U.S.A., BAKER Nautilus 34 pp. 65 & 66.—*P.*, HANNA 230.

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†*Polygyrella*, HANNA 230.

Pomatia (Pomatiella) melanostoma varr. [? n.] *albina* Morocco, PALLARY J. conchyliol. 65 p. 38.

†*Prothelidomus*, WENZ 534.

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†*Pyramidula*, HANNA 230.

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Strobilops strebeli subsp. n. *guatemalensis* Guatemala, HINKLEY Nautilus 34 p. 52.

†*Strobilops*, WENZ 535.

Sulcodonta zeteki sp. n. Panama, PILSBRY Proc. Acad. Nat. Sci. Philad. 72 p. 195.

Tachea nemoralis with var. n. *tricolor* France, FRANZ Zool. Anz. 48 pp. 292-299.—*T. nemoralis, hortensis, austriaca*, ZIMMERMANN 570.—*T.*, CAZIOT 97.

Thysanophora rhoadsi sp. n. Guatemala, PILSBRY Proc. Acad. Nat. Sci. Philad. 71 p. 217.—*T. textilis* sp. n. Guatemala, PILSBRY Proc. Acad. Nat. Sci. Philad. 72 p. 196.

Tingitana with *T. minettei* varr. [? n.] *major, elata, minor, depressa, cristaria, zonata*; *T. gharbiana* var. [? n.] *major*; *T. Mangini* ? sp. n.; *T. bessabisana* varr. [? n.] *angulosa, concolor*; *T. tingitana* varr. [? n.] *minor, major, globulosa, pullata, punctulata, interrupta* Morocco, PALLARY J. conchyliol. 65 pp. 25-31.

†*Tropidomphalus (Pseudochloritis) vindobonensis* sp. n. Miocene Austria, WENZ Frankfurt a. M. Senckenbergiana 2 p. 111.

Turbo bidentatus, KENNARD & WOODWARD 296.

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†*Vallonia subcyclophorella* var. n. *major, V. lepida* var. n. *steinheimensis* Tertiary Germany, GOTTSCHICK Nachr. D. Malak. Ges. 52 pp. 54 & 58.

Xeroleuca, PALLARY 391.

Xerophila with *X. euphorcella* var. *menzeliana*, *lemoinei* var. *major* var. [n. ?] MOROCCO, PALLARY J. conchylol. 65 pp. 12-19.

†*Xerophila striata* form n. *minor* Quaternary Germany, GEYER Stuttgart Jahreshefte Ver. Natk. 73 p. 65.

BULIMIDÆ, ORTHALICIDÆ & BULIMULIDÆ.

Bulimulus (Drymaeus) pulcherrimus, Ad. = *subhybridus*, Da Costa, FULTON London Proc. Malac. Soc. 14 p. 3.

Bulimus (Borus) lacunosus form n. *sinistralis* Peru, BLUME Nachr. D. malakozool. Ges. 52 p. 129.

Liguus solidus *crassus*, s. *lineatus*, s. *pseudopictus*, s. *delicatus*, *crenatus capensis*, c. *vacaensis*, c. *eburneus*, c. *mosieri*, c. *cingulatus*, c. *luteus*, *fasciatus alternatus*, f. *ornatus*, f. *miamiensis*, f. *livingstoni*, f. *elegans*, f. *lineolatus*, f. *versicolor*, f. *castaneus* subspp. n. Florida, SIMPSON Washington Proc. biol. Soc. 33 pp. 121-126.

Partula with *P. mathildae* sp. n. Solomon Isds., BOETTGER Abh. Senckenb. Ges. 36 pp. 295-296.—*P.*, CRAMPTON 138.

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Brachypodella nidicostata sp. n. Venezuela, SPENCE J. Conch. Leeds 16 p. 86.

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Ena obscura, BOYCOTT 72.

Gastrocopta (Falsopupa) madagascariensis sp. n. Madagascar, BAVAY & GERMAIN Bul. Mus. Paris 1920 p. 156.—*G. colombiana* sp. n. Colombia, PILSBRY Proc. Acad. Nat. Sci. Philad. 1920 p. 329.—*G.*, PILSBRY 411.

Hypsclostoma, GUDE 222.

†*Leucochilus*, WENZ 542.

Lyropupa with *L. lyrata uncifera*, *L. rhabdota*, r. *pluris*, r. *baldwiniana*, *L. thaanumi* subspp. & sp. n.; *Lyropupilla* sec. n. with *L. spaldingi*, *sparna*, *anceyana*, *scabra* spp. n.; *Miropupa* sec. n. *L. kahoolavensis*, k. *puukolekolensis*, *perlonga interrupta*, *micra*, m. *percostata*, m. *maunaloae*, *ovatula*, o. *kona*, *plagioplyx*, *thaumasia* spp. & subspp. n. Hawaii, PILSBRY Man. Conch. 25 pp. 226-272.

†*Lyropupa* with *L. lyrata fossilis*, *L. antiqua*, *cyrtia* subsp. & spp. n. Pleistocene Hawaii, PILSBRY Man. Conch. 25 pp. 236 250 268.

Macrenoica subgen. n. *Aprosphyma* [*Clausiliidae*], WAGNER Nachr. D. malakozool. Ges. 52 p. 10.

†*Miopytychia* subgen. n., WENZ Frankfurt a. M. Senckenbergiana 2 p. 19.

Modicella avenacea, SCHMID 456.

†*Neniopsis* gen. n., WENZ Frankfurt a. M. Senckenbergiana 2 p. 18.

Neostyriaca gen. n. [*Clausiliidae*], WAGNER Nachr. D. malakozool. Ges. 52 p. 107.

Nesopupa with *Nesopupilla* sec. n. *N. waianaensis*, *litoralis*, *dispersa*, *baldwini subcostata*, b. *lanaiensis* spp. & subspp. n.; *Infranesopupa* sec. n. *N. limatula*, *dubitabilis kaalaensis*, *anceyana*, *subcentralis*, *bishopi*, *forbesi*, *infrequens* spp. & subspp. n.; *Nesodagys* sec. n. *N. wesleyana rhadina* subsp. n.; *Limbatipupa* sec. n. *N. newcombi interrupta*, n. *gnampta*, *oahuensis*, *singularis*, *alloia* subspp. & spp. n. Hawaii; *Cocopupa*, *Indopupa*, *Insulipupa* sec. n.; *N. gonioplax* sp. n. Mauritius; *N. micra* nom. n. for *Pupa (Pupilla) exigua*, H. Ads.; *N. comorensis* nom. n. for *Pupa monas*, Morel; *Afripupa* sec. n.; *N. bisulcata rhodesiana* subsp. n. Rhodesia; *Helenopupa* sec. n., PILSBRY Man. Conch. 25 pp. 274-364.

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Odontostomus, GUDE 222.

†*Oospiroides* gen. n., WENZ Frankfurt a. M. Senckenbergiana 2 p. 17.

†*Pachyphaedusa* gen. n., WENZ Frankfurt a. M. Senckenbergiana 2 p. 18.

†*Palaeophaedusa* gen. n., WENZ Frankfurt a. M. Senckenbergiana 2 p. 18.

Patulastra, WATSON 525.

Polinskia gen. n. [*Clausiliidae*], WAGNER Nachr. D. malakozool. Ges. 52 p. 151.

Pronesopupa with *P. hystericella*, *boettgeri*, *b. spinigera* spp. & subsp. n. Hawaii; *Edentulopupa*, *Sericopupa* secc. n.; *P. frondicola*, *f. corticicola*, *molokaiensis*, *sericata*, *lymaniana* spp. & subsp. n. Hawaii, PILSBRY Man. Conch. 26 pp. 1-19.

†*Pronesopupa orycta* sp. n. [?] Pleistocene Hawaii, PILSBRY Man. Conch. 26 p. 18.

†*Pseudocolumna* gen. n., WENZ Frankfurt a. M. Senckenbergiana 2 p. 17.

Ptychalcea, PILSBRY 411.

†*Ptychophaedusa* gen. n., WENZ Frankfurt a. M. Senckenbergiana 2 p. 18.

Pupa with *P. pearlensis* sp. n. Hawaii, PILSBRY Proc. Acad. Nat. Sci. Philad. 1920 p. 362.

Pupidae, BÜTIKOFER 85.

Pupilla sterri, SCHMID 455.—*P.*, GUDE 222.

Pupisoma with *dioscoricola insigne* Texas; *P. michoacanense* Mexico; *P. minus* Florida; *P. mediamericanum* Mexico subsp. & spp. n., PILSBRY Man. Conch. 26 pp. 19-43.

†*Pupoides wenzi* sp. n. Miocene Germany, FISCHER Nachr. D. malak. Ges. 52 p. 93.—*P.*, WENZ 542.

Pyramidula, WATSON 525.

Sterkia with *S. antillensis* sp. n. Cuba, PILSBRY Man. Conch. 26 pp. 49-58.

Strobilops, GUDE 222.

Tomigerus, GUDE 222.

Tonkinia, GUDE 222.

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Vallonia, WATSON 525.

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Achatina, GERMAIN 203.

†*Azeca (Azeca) sexdentata* sp. n. Tertiary Germany, GOTTSCHICK Nachr. D. malakozool. Ges. 52 p. 62.

Caeciloides domingensis sp. n. Haiti, VANATTA Proc. Acad. Nat. Sci. Philad. 72 p. 204.

Ferussacia with *F. marteli* sp. [? n.] Morocco, PALLARY J. conchyliol. 65 pp. 135-136.

Ferrusacidae, BÜTIKOFER 85.

Limicolaria, GERMAIN 204.

Pseudachatina perelongata, Rolle = *P. daillyana*, Pilsbry, FULTON London Proc. Malac. Soc. 14 p. 3.—*P. rollei* sp. n. Cameroons, BLUME Nachr. D. malakozool. Ges. 52 p. 128.

Pseudosubulina martensiana sp. n. Guatemala, PILSBRY Proc. Acad. Nat. Sci. Philad. 71 p. 214.

Spiraxis livingstonensis, longior spp. n. Guatemala, PILSBRY Proc. Acad. Nat. Sci. Philad. 71 pp. 213-214.

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Vaginula ocellata sp. n. Madagascar, ODHNER Ark. Zool. 12 p. 46.

ELLOBIIDÆ (*Auriculidæ olim*),
LIMNÆIDÆ, PHYSIDÆ, CHILINIDÆ &
SIPHONARIIDÆ.

†*Acella*, HENDERSON 242.

Ancylidae, WALKER 521 & 522.

Ancylus, KENNARD & WOODWARD 296.

†*Aplexa subhynorum* sp. n. s. *physaeformis* form. n. Tertiary Germany, GOTTSCHICK Nachr. D. malakozool. Ges. 52 p. 116.

Auriculidae, BÜTIKOFER 85.

Bullinus with *B. prinsepii* race n. *euryhyalinus*. Cretaceous Baluchistan, ANNANDALE Rec. Geol. Surv. India 51 pp. 55–62.—*B. sisurnius* sp. n. North-West Australia, HEDLEY R. Geog. Soc. Aust. S.A. Branch Proc. 18 p. 282.—*B.*, ANNANDALE 6.—*B.*, GERMAIN 202.

Camptoceras with *C. subspinosum* sp. n. Kashmir, ANNANDALE & PRASHAD J. & Proc. As. Soc. Beng. 16 pp. 27–33.

Ferrissia bartschi sp. n. Indiana, WALKER Proc. U.S. Nation. Mus. 57 p. 525.

Gulnaria, ROSZKOWSKI 435.

Gyraulus, ANNANDALE 6.

†*Gyrorbis hilgendorfi* form. n. *subcarinatus* Tertiary Germany, GOTTSCHICK Nachr. D. malakozool. Ges. 52 p. 163.

†*Hippentis subfontanus* form. n. *latior*, *H. fasciata* sp. n. Tertiary Germany, GOTTSCHICK Nachr. D. malakozool. Ges. 52 pp. 170–171.

Isidora aruana sp. n. Aru Isds., BOETTGER Abh. Senckenb. Ges. 35 p. 126.

Kerguelania obliquata, MESTAYER 359.

Limnaea with *L. acuminata* var. n. *nana* W. India, ANNANDALE & PRASHAD Rec. Ind. Mus. Calcutta 21 pp. 139–152.—*L. auricularia*, HUGGINS 266.—*L. vulgaris* var. [? n.] *minor* Morocco, PALLARY J. conchyliol. 65 p. 138.—*L. microcephala*, CAZIOT 103.—*L. natalensis*, PORTER 412.—*L. ovata*, ROSZKOWSKI 437.—*L. palustris*, ROSZKOWSKI 434 & 436.—*L. stagnalis*, BUCHNER 77.—*L.* ROSZKOWSKI & ZEBROWSKA 438.—*L.*, HENDERSON 242.

Limnaeidae, BÜTIKOFER 85.—*L.*, CAZIOT 102.

†*Nealexia*, WENZ 544.

Physa subopaca var. [? n.] *minor* Morocco, PALLARY J. conchyliol. 65 p. 139.—*P. solidissima* sp. n. Mexico, PILSBRY Proc. Acad. Nat. Sci. Philad.

71 p. 219.—*P. jennessi* sp. n. N. Canada, DALL Rept. Can. Arct. Exp. 8 p. 20A.—*P. gyrina* and *heterostropha*, DEAN 159.—*P. h.*, JACKSON & KITCHEN 280.—*P.*, BAKER 30.

†*Physa tendagurensis*, sp. n. Jura E. Africa, DIETRICH Berlin Arch. Biontol. 3 p. 115.—*P. anatina*, BAKER 29.—*P.*, HENDERSON 242.

Physopsis africana, PORTER 412.

Planorbidae, BÜTIKOFER 85.

Planorbis pseudotrivolvis sp. n. Illinois, BAKER Nautilus 33 p. 123.—*P. tenuis chapalensis*, *contrerasi* subsp. & sp. n. Mexico, PILSBRY Proc. Acad. Nat. Sci. Philad. 72 pp. 192–193.—*P. dilatatus*, JACKSON & KITCHEN 280.—*P. glaber*, CAZIOT 110.—*P.*, MAGATH 329.—*P.*, MANSON-BAHR & FAIRLEY 351.

†*Planorbis*, HENDERSON 242.

Segmentina congenera sp. n. Aru Isds., BOETTGER Abh. Senckenb. Ges. 35 p. 127.—*S.*, MAY 352.

†*Segmentina larteti* form. n. *planata* Tertiary Germany, GOTTSCHICK Nachr. D. malakozool. Ges. 52 p. 172.

Siphonaria madagascariensis sp. n. Madagascar, ODHNER Ark. Zool. 12 p. 20.

†*Stoliodoma*, WENZ 544.

Succinea panamensis sp. n. Panama, PILSBRY Proc. Acad. Nat. Sci. Philad. 71 p. 218.—*S. oblonga*, Drap., GARDINER 198.—*S.*, MAGATH 329.

†*Succinea (Amphibina) minima* form. n. *subpfeifferi* Tertiary Germany, GOTTSCHICK Nachr. D. malakozool. Ges. 52 p. 65.

Succineidae, BÜTIKOFER 85.

†*Tralia*, WENZ 544.

Uncancylus calverti, *ameliae* spp. n. Costa Rica, PILSBRY Proc. Acad. Nat. Sci. Philad. 72 pp. 7–9.

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Dendrotrochus with *D. vicarius* sp. n. S. Pacific, BOETTGER Abh. Senckenb. Ges. 36 p. 289.

†*Rgytidopilus obliquus* sp. n. Jura E. Africa, DIETRICH Berlin Arch. Biontol. 3 p. 114.

Scaphopoda.

Cadulus with *C. (Polyschides) quadridentatus acompsus* subsp. n.; *Platyschides* subgen. n. *C. (P.) elephas, catharus, parvus, foweyensis, portoricensis, rushi arne, providensis, elongatus, greenlawi, arctus, braziliensis, simpsoni, nitidus, miamiensis* spp. & subsp. n.; *C. Gadila mayori, iota, subula, verrilli, regularis, atlanticus, C. (Cadulus) transitorius, t. transitorius, t. barbadensis, platensis, podagrinus, halius, tersus* spp. & subspp. n. East Coasts of America, HENDERSON U.S. Nation. Mus. Bull. 111 pp. 11 95-149.

†*Cadulus poncensis* sp. n. Tertiary Porto Rico, MAURY New York Acad. Sci. 3 p. 47.—*C. arcticus* sp. n. Pliocene, DALL U.S. Geol. Surv. Prof. ppr. 125-c p. 30.

†*Dentaliidae*, YOKOYAMA 566.

Dentalium with *D. (D.) laqueatum regulare, texasianum, cestum, t. rioense, gouldii portoricense, g. colonense* subspp. n.; *D. (D.) rebeccaense* sp. n.; *D. (Antalis) entale simpsoni, D. (A.) agile subagile* subspp. n.; *D. (A.) occidentale georgiense* nom. n. for *D. o. sulcatum*, Ver.; *D. (A.) ceratum flavum, D. (A.) c. tenax* subspp. n.; *D. (A.) bariletti, tubulatum* spp. n.; *D. (Fissidentalium) meridionale jamaicense* subspp. n.; *D. (F.) m. verrilli* nom. n. for *D. solidum*, Ver.; *D. (F.) floridense, D. (Graptacme) amaliense* spp. n.; *D. (Episiphon) sowerbyi pelliceri* subspp. n. East Coast of America, HENDERSON U.S. Nation. Mus. Bull. 111 pp. 8 22-86.

†*Dentalium radiolineata* and *r. sobrantensis* spp. n. Oligocene U.S.A., CLARK Univ. Cal. Pub. Bul. Dept. Geol. 11 p. 191.—*D. diazicum* sp. n. Tertiary Porto Rico, MAURY New York Acad. Sci. 3 p. 46.—*D.*, HUBBARD 265.—*D.* ROMAN & MAZERAN 433.

Entalina with *E. quadrata* sp. n. off Grenada, HENDERSON U.S. Nation. Mus. Bull. 111 pp. 10 87-88.

†*Entaliscris status* sp. n. Permian MANSUY Mem. Serv. geol. Indochine 3 p. 52.

Scaphopoda, PELSENEER 396.

Siphonodentalium with *S. (S. ?) striatinum, S. (S.) verrilli, S. (Pulsellum) occidentale, bushi* spp. n. East Coast of America, HENDERSON U.S. Nation. Mus. Bull. 111 pp. 10 88-94.

Pelecypoda or Lamellibranchia.

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Lamellibranchia, PELSENEER 396.

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†*Alectryonia*, ROMAN & MAZERAN 433.—*A.*, LANGE 319.

†*Anomia inconspicua* sp. n. Oligocene U.S.A., CLARK Univ. Cal. Pub. Bul. Dept. Geol. 11 p. 133.—*A.*, HENNIG 246.

†*Anomiidae*, YOKOYAMA 566.

†*Exogyra*, ROMAN & MAZERAN 433.—*E.*, LANGE 319.

†*Gryphaea bubo* sp. n. Jura E. Africa, HENNIG Berlin Arch. Biontol. 3 p. 179.

Ostrea edulis with *O. e. varr. n. celtica, estuarii, tenbiensis, O. atlantica* British Seas *O. cantii* spp. n., BELL Essex Nat. 19 pp. 183-208.

†*Ostrea* with *O. sellaeformis* var. *portoricoensis, cahobasensis* var. *portoricana* varr. n. Tertiary Porto Rico, HUBBARD New York Acad. Sci. 3 pp. 98-102.—*O.* with *O. collazica, berkeyi, sansbastianana* spp. n. Tertiary Porto Rico, MAURY New York Acad. Sci. 3 pp. 13-15.—*O. darestei* sp. n. Cretaceous France, ROMAN & MAZERAN Lyon Arch. Mus. hist. nat. 12 p. 106.—*O.*, BELL 50.

†*Ostreidae*, YOKOYAMA 566.

PECTINACEA.

†*Amusium* with *A. mauryi* sp. n. Tertiary Porto Rico, HUBBARD New York Acad. Sci. 3 p. 96.—*A.*, MAURY 349.

†*Camptonectes*, ROMAN & MAZERAN 433.

†*Chlamys*, ROMAN & MAZERAN 433.—*C.*, LANGE 319.

†*Entolium*, HENNIG 246.

†*Hinnites* with *H. equinus* sp. n. Jura E. Africa, LANGE Berlin Arch. Biontol. 3 pp. 314-316.

†*Lima*, ROMAN & MAZERAN 433.—*L.*, HENNIG 246.—*L.*, LANGE 319.

†*Limatula tendagurensis* sp. n. Jura E. Africa, LANGE Berlin Arch. Biontol. 3 p. 207.

†*Limidae*, YOKOYAMA 566.

†*Neithea*, ROMAN & MAZERAN 433.

Pecten kincaidi, islandicus pugetensis sp. & var. n. W. Coast N. America, OLDROYD *Nautilus* 33 pp. 135-136.—*P. purpuratus*, GIGOUX 209.—*P.*, BUDENBROCK 80.

†*Pecten* with *P. guanicus, meseticus, camycencis, sansebastianus* & var. *laresianus, guajatacus* spp. & var. n. Tertiary Porto Rico, MAURY New York Acad. Sci. 3 pp. 16-20.—*P.* with *P. laresense, P. (Euvolva) reliquus* var. *portoricoensis, P. (Chalmys) collazoensis, portoricoensis* with varr. *reticulatus* and *grandis, grabani* with var. *aguadensis, hatoensis & guayabensis, hodgii, P. (Aequipecten) lobecki, P. (Plagiectenium) rabelli, borinquenense* spp. & varr. n. Tertiary Porto Rico, HUBBARD New York Acad. Sci. 3 pp. 85-95.—*P.* with *P. misolensis glabra* var. n. Trias Timor; *P. krumbecki* nom. n. for *P. microglyptus*, W. & B., JAWORSKI Stuttgart Pal. Timor 1915 pp. 96-102.—*P. (Amussium) donaiensis* sp. n., Lias, MANSUY Mem. Serv. géol. Indochine 3 p. 37.—*P.* with *P. (Camptonectes) euplocus* sp. n. Jura E. Africa, LANGE Berlin Arch. Biontol. 3 pp. 208-211.—*P. (Chlamys)* with *P. kindlei* sp. n. Pliocene, DALL U.S. Geol. Surv. Prof. ppr. 125-c pp. 30-31.—*P. (Lyropecten) gabbi, P. (Pseudomuseum) [sic] alternilineatus* spp. n. Oligocene U.S.A., CLARK Univ. Cal. Pub. Bul. Dept. Geol. 11 pp. 131-132.

†*Pectinidae*, YOKOYAMA 566.†*Plicatula*, ROMAN & MAZERAN 433.

†*Propeamusium hollicki* sp. n. Tertiary Porto Rico, MAURY New York Acad. Sci. 3 p. 21.

Pseudamussium andersoni sp. n. Arctic, DALL Rept. Can. Arct. Exp. 8 p. 19A.

†*Radula tumida* sp. n. Jura E. Africa, LANGE Berlin Arch. Biontol. 3 p. 206.

†*Spondylus gaedaropus*, DRZ 172.

†*Spondylus* with *S. lucasi* sp. n. Tertiary Porto Rico, MAURY New York Acad. Sci. 3 pp. 22-23.—*S.*, HUBBARD 265.—*S.*, ROMAN & MAZERAN 433.

†*Syncyclonema matheroni* sp. n. Cretaceous France, ROMAN & MAZERAN Lyon Arch. Mus. hist. nat. 12 p. 89.

†*Vola*, LANGE 319.

MYTILACEA.

†*Atrina rabelli* sp. n. Tertiary Porto Rico, HUBBARD New York Acad. Sci. 3 p. 85.

†*Avicula*, LANGE 319.

Edentellina with *E. corallensis* sp. n. Queensland, HEDLEY London Proc. Malac. Soc. 14 pp. 74-76.

†*Gervilleia* [vide etiam *Gervilleia*], ROMAN & MAZERAN 433.

†*Gervilleia* [vide etiam *Gervilleia*] *friči, jahni, zahálkai, erecta, minuta* spp. n. Upper Cretaceous Bohemia, ŽELIZKO Wien Jahrb. Geol. RchsAnst. 68 pp. 120-121.—*G.* with *G. bohmica, aurita, gibbera* spp. n. Upper Cretaceous Bohemia, ŽELIZKO Wien Jahrb. géol. RchsAnst. 66 pp. 277-280.—*G. stantoni* sp. n. Cretaceous Canada, MCLEARN Can. Field. Nat. 34 p. 55.—*G.*, LANGE 319.

†*Inoceramus*, ROMAN & MAZERAN 433.—*I.*, HENNIG 246.

†*Lithophaga*, HUBBARD 265.—*L.*, MAURY 349.

Modiolus with *M. matris* sp. n. Hawaii, PILSBRY Proc. Acad. Nat. Sci. Philad. 1920 p. 321.—*M.*, LAMY 315.

Modiolus kirkerensis, pittsburgensis spp. n. Oligocene U.S.A., CLARK Univ. Cal. Pub. Bul. Dept. Geol. 11 pp. 133-134.—*M.*, HENNIG 246.—*M.*, LANGE 319.

Mytilidae, YOKOYAMA 566.

Mytilus edulis, HERDMAN 247.—*M. e.*, SPÄRCK, 489a.—*M.*, LAMY 316.

†*Mytilus arnoldi* sp. n. Oligocene U.S.A., CLARK Univ. Cal. Pub. Bul. Dept. Geol. 11 p. 135.—*M.*, LANGE 319.

†*Perna*, ROMAN & MAZERAN 433.

†*Posidonomya* with *P. becheri* var. n. *siamensis* Carbon. Siam, REED Geol. Mag. 57 pp. 117-119.

†*Pseudomonotis tendagurensis* sp. n. Jura E. Africa, HENNIG Berlin Arch. Biontol. 3 p. 182.

†*Pteria*, MAURY 349.

†*Pterinea mieleensis* sp. n. Ordovician, MANSUY Mem. Serv. géol. Indochine 4 p. 13.

ARCACEA.

†*Acila* with *A. muta*, *n. markleyensis* sp. & var. n. Oligocene U.S.A., CLARK Univ. Cal. Pub. Bul. Dept. Geol. 11 pp. 119-122.

Arca, MAY 352.

†*Arca* (*Scapharca*) *mediainpressa*, *submontereyana* spp. n. Oligocene U.S.A., CLARK Univ. Cal. Pub. Bul. Dept. Geol. 11 pp. 127-128.—*A.* with *A.* (*Scapharca*) *guajatica*, *aguadica*, *collazica*, *sansebastianiana* spp. n. Tertiary Porto Rico, MAURY New York Acad. Sci. 3 pp. 6-11.—*A.*, HUBBARD 265.—*A.*, ROMAN & MAZERAN 433.

†*Arcidae*, YOKOYAMA 566.

†*Barbatia*, ROMAN & MAZERAN 433.—*B.*, MAURY 349.

Congeria bryanae sp. n. Hawaii, PILSBRY Proc. Acad. Nat. Sci. Philad. 1920 p. 323.

†*Cucullaea iritans* sp. n. Jura E. Africa, HENNIG Berlin Arch. Biontol. 3 p. 175.—*C.* with *C. turonica* sp. n. Cretaceous France, ROMAN & MAZERAN Lyon Arch. Mus. hist. nat. 12 pp. 81-82.—*C.*, LANGE 319.

Leda perlonga sp. n. Mesozoic Indo China, MANSUY Mem. Serv. géol. Indochine 3 p. 82.—*L.* (*Portlandia collinsoni*) sp. n. Arctic Ocean, DALL Rept. Can. Arct. Exp. 8 p. 19A.

†*Leda elongorostrata*, *markleyensis*, *pulchrisinuosa*, *ramonensis* spp. n. Oligocene U.S.A., CLARK Univ. Cal. Pub. Bul. Dept. Geol. 11 pp. 123-124.—*L.*, HUBBARD 265.

†*Ledidae*, YOKOYAMA 566.

†*Limopsidae*, YOKOYAMA 566.

†*Macrodon rectangulus* sp. n. Permian, MANSUY Mem. Serv. géol. Indochine 3 p. 36.

†*Malletia packardi* sp. n. Oligocene U.S.A., CLARK Univ. Cal. Pub. Bul. Dept. Geol. 11 p. 125.

Nucula hawaiiensis sp. n. Hawaii, PILSBRY Proc. Acad. Nat. Sci. Philad. 1920 p. 327.—*N. rugosa* sp. n. Madagascar, ODHNER Ark. Zool. 12 p. 23.

†*Nucula misolensis* sp. n. Trias Timor, JAWORSKI Stuttgart Pal. Timor 1915 p. 106.—*N. postangulata*, *bifida* spp. n. Oligocene U.S.A., CLARK Univ. Cal.

Pub. Bul. Dept. Geol. 11 p. 122.—*N.* with *N. africana* sp. n. Jura E. Africa, LANGE Berlin Arch. Biontol. 3 p. 223.—*N.*, HENDERSON 242.—*N.*, ROMAN & MAZERAN 433.

†*Nuculidae*, YOKOYAMA 566.

†*Nuculites* with *N. pholus*, *ladon*, *nessus*, *lichas*, *subplanus*, *trescotti*, *robustus*, *crassus*, *speciosus*, *abnormis*, *chrysippus*, *atreus*, *thyestes*, *amycus*, *battus*, *galeus*, *pelops*, *eurylochus*, *lentus* spp. n. Silurian Maine, WILLIAMS Proc. U.S. Nation. Mus. 54 pp. 32-46.

†*Parallelodontidae*, YOKOYAMA 566.

Pectunculus mertoni sp. n. Aru Isds., BOETTGER Abh. Senckenb. Ges. 35 p. 138.

†*Pectunculus*, ROMAN & MAZERAN 433.

Thecondonta (?) *symmetrica* sp. n. Hawaii, PILSBRY Proc. Acad. Nat. Sci. Philad. 1920 p. 327.

†*Trigonia* with *T. stremmei*, *krenkeli*, *niongalensis*, *dietrichi*, *janenschi*, *staffi*, *hennigi* spp. n. Jura E. Africa, LANGE Berlin Arch. Biontol. 3 pp. 224-239.—*T.*, ROMAN & MAZERAN 433.—*T.*, HENNIG 246.

†*Trigonoarca*, ROMAN & MAZERAN 433.

Yoldia divaricata sp. n. Madagascar, ODHNER Ark. Zool. 12 p. 24.

†*Yoldia cooperi tenuissima* var. n. Oligocene U.S.A., CLARK Univ. Cal. Pub. Bul. Dept. Geol. 11 p. 125.

SUBMYTILACEA.

†*Astarte actis*, *carteriana*, *leffingwelli*, *martini*, *hemicymata*, *A. (Gonilia) ? diversa* spp. n. Pliocene, DALL U.S. Geol. Surv. Prof. ppr. 125-c pp. 31-33.—*A. gaillardi* sp. n. Cretaceous France, ROMAN & MAZERAN Lyon Arch. Mus. hist. nat. 12 p. 93.—*A. grandidentata* sp. n. Jura E. Africa, LANGE Arch. Biontol. 3 p. 240.—*A.*, HENNIG 246.

†*Astartella compacta* sp. n. Carbon. U.S.A., GIRTY Miss. Bur. Geol. Mines 13 p. 254.

†*Astartidae*, YOKOYAMA 566.

†*Cardinia*, KRUMBECK 312.

†*Cardita* with *C. ? comitatensis* sp. n. Cretaceous France, ROMAN & MAZERAN Lyon Arch. Mus. hist. nat. 12 p. 98.

†*Carditidae*, YOKOYAMA 566.

†*Crassatellidae*, YOKOYAMA 566.

†*Crassatellites juanadiazus* sp. n. Tertiary Porto Rico, MAURY New York Acad. Sci. 3 p. 27.

†*Eriphyla*, LANGE 319.

†*Glossites* (?) *belmontensis* sp. n. Permian U.S.A., STAUFFER & SCHROYER Ohio Geol. Surv. 22 p. 144.

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†*Cardiidae*, YOKOYAMA 566.

Cardium thaanumi sp. n. Hawaii, PILSBRY Proc. Acad. Nat. Sci. Philad. 1920 p. 323.—*C. edule*, WALTON 523 & 524.

†*Cardium* with *C. dickersoni, kirkerensis* spp. n. Oligocene U.S.A., CLARK Univ. Cal. Pub. Bul. Dept. Geol. 11 pp. 140–141.—*C.* with *C. (Trigonocardia) sancti-sebastiani* sp. n. Tertiary Porto Rico, MAURY New York Acad. Sci. 3 pp. 34–36.—*C.* with *C. (Trachycardium) muricoides, cinderellae* var. *alternatum, C. (Trigonocardia) sambaicum* var. *portoricensis, haitense* var. *areciboense* sp. & varr. n. Tertiary Porto Rico, HUBBARD New York Acad. Sci. 3 pp. 114–117.—*C. thetironiae* sp. n. Jura E. Africa, LANGE Berlin Arch. Biontol. 3 p. 249.—*C.*, COUFFON 136.—*C.*, ROMAN & MAZERAN 433.

†*Conocardium missourensis* sp. n. Carbon. U.S.A., GIRTY Miss. Bur. Geol. Mines 13 p. 253.

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†*Protocardia*, ROMAN & MAZERAN 433.—*P.*, HENNIG 246.—*P.*, LANGE 319.

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†*Chama* with *C. portoricana* sp. n. Tertiary Porto Rico, HUBBARD New York Acad. Sci. 3 p. 109.

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†*Chamidae*, YOKOYAMA 566.

†*Echinochama*, MAURY 349.

†*Monopleura* with *M. (Petalodontia) bruni* sp. n. Cretaceous France, DOUVILLÉ Mem. Soc. géol. France 22 pp. 10–15.

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Pseudochama gen. n. *P. pusilla* sp. n. Strait of Macassar, ODHNER Stockholm Vet.-Ak. Handl. 59 pp. 20 & 24.

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†*Rudistes*, DOUVILLÉ 170b.

†*Vaccinites*, ROMAN & MAZERAN 433.

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- Anodontites jaliscoensis* sp. n. Mexico, PILSBRY Proc. Acad. Nat. Sci. Philad. 72 p. 193.
- †*Antigona* with *A. tarquinia antillica* var. n. Tertiary Porto Rico, MAURY New York Acad. Sci. 3 pp. 38–39.
- Arcidopsis footei*, PRASHAD 414.
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- †*Chione cryptolineata, lineolata, medio-striata* spp. n. Oligocene U.S.A., CLARK Univ. Cal. Pub. Bul. Dept. Geol. 11 pp. 149–151.—*C.* with *C. quebradillensis* sp. n. *C. q. guajatica* var. n. Tertiary Porto Rico, MAURY New York Acad. Sci. 3 pp. 40–41.—*C.*, HUBBARD 265.
- †*Clementia* with *C. rabelli* sp. n. Tertiary Porto Rico, MAURY New York Acad. Sci. 3 p. 37.—*C.*, HUBBARD 265.
- Coralliophaga*, LAMY 317.
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- †*Cyprimeria*, ROMAN & MAZERAN 433.
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- †*Cyprina (Venelicardia) cossmanni* sp. n. Cretaceous France, ROMAN & MAZERAN Lyon Arch. Mus. hist. nat. 12 p. 102.—*C.*, LANGE 319.
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- Cyrenoidea guatemalensis* sp. n. Guatemala, PILSBRY Proc. Acad. Nat. Sci. Philad. 71 p. 221.
- †*Cytherea (C.) berkeyi* sp. n. Tertiary Porto Rico, HUBBARD New York Acad. Sci. 3 p. 120.—*C. (Lioconcha) martini, molengraffi* spp. n. Tertiary Timor, TESCH Pal. Timor 8 p. 103.—*C. mülleri* sp. n. Jura E. Africa, LANGE Berlin Arch. Biontol. 3 p. 254.
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- Heteroglypta kanaka* sp. n. Hawaii, PILSBRY Proc. Acad. Nat. Sci. Philad. 1920 p. 380.
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- †*Hyriopsis subschlegeli, altealata* spp. n. Pliocene Europe, HAAS Jahrb. Pruss. Geol. Landst. 60 pp. 148–150.
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- †*Macrocallista ? incognita, weaveri* sp. n. Oligocene U.S.A., CLARK Univ. Cal. Pub. Bul. Dept. Geol. 11 pp. 145–147.
- Margaritana margaritifera*, KÄRKI 295.—*M. m.*, SEIDLER 460.
- †*Meretrix*, ROMAN & MAZERAN 433.
- †*Mesopleura hubbardi* sp. n. Tertiary Porto Rico, MAURY New York Acad. Sci. 3 p. 44.
- Musculium*, LATCHFORD 320.—*M.*, WILLIGEN VAN DER 548.
- Neosolen* n. gen. for *N. aquae-dulciosis* n. sp. = *Solen fonesi*, Annandale & Kemp nec Dunker, GHOSH Rec. Ind. Mus. Calcutta 19 pp. 47–78.
- Nephronaias aztecorum tolimanensis* subsp. n. Mexico, PILSBRY Proc. Acad. Nat. Sci. Philad. 72 p. 194.—*N. tempisqueensis* sp. n. Costa Rica, PILSBRY Proc. Acad. Nat. Sci. Philad. 72 p. 9.
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†*Pitaria lorenzana* sp. n. Oligocene U.S.A., CLARK Univ. Cal. Pub. Bul. Dept. Geol. 11 p. 147.—*P.*, HUBBARD 265.

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†*Solen* with *S. gravidus* sp. n. Oligocene U.S.A., CLARK Univ. Cal. Pub. Bul. Dept. Geol. 11 pp. 155-157.—*S. (Plectosolen) collazoensis* sp. n. Tertiary Porto Rico, HUBBARD New York Acad. Sci. 3 p. 126.

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†*Solenidae*, YOKOYAMA 566.

Sphaerium with *S. torsum* sp. n. Canada, LATCHFORD Can. Field Nat. 34 pp. 30-34 69-70.—*S. haasi* sp. n. Aru Isds., BOETTGER Abh. Senckenb. Ges. 35 p. 141.—*S.*, WILLIGEN VAN DER 548.

Subcurellus n. gen. for *Solen pellucidus*, Pennant, GHOSH Rec. Ind. Mus. Calcutta 19 pp. 47-78.

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†*Veneridae*, YOKOYAMA 566.

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†*Venus (s.l.) sayni* sp. n. Cretaceous France, ROMAN & MAZERAN Lyon Arch. Mus. hist. nat. 12 p. 99.—*V. semiconcava* sp. n. Jura E. Africa, LANGE Berlin Arch. Biontol. 3 p. 253.—*V.*, MORSE 365.

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†*Corbula collazica* sp. n. Tertiary Porto Rico, MAURY New York Acad. Sci. 3 p. 44.—*C.*, ROMAN & MAZERAN 433.—*C.*, HUBBARD 265.

†*Corbulidae*, YOKOYAMA 566.

†*Cyrtodaria camdenensis* sp. n. Pliocene, DALL U.S. Geol. Surv. Prof. ppr. 125-c p. 33.

†*Glycimeris portoricensis*, *collazoensis* spp. n. Tertiary Porto Rico, HUBBARD New York Acad. Sci. 3 p. 107.—*G. buwaldi*, *tenuimbricata* spp. n. Oligocene U.S.A., CLARK Univ. Cal. Pub. Bul. Dept. Geol. 11 pp. 129-130.—*G.*, MAURY 349.

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†*Mesodesmatidae*, YOKOYAMA 566.

†*Mya (Cryptomya) incognita* sp. n. Oligocene U.S.A., CLARK Univ. Cal. Pub. Bul. Dept. Geol. 11 p. 160.

†*Panopaea* [vide etiam *Panopea*],
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†*Panopea* [vide etiam *Panopaea*],
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†*Saxicava aegypto-indica* sp. n. Timor,
TESCH Pal. Timor 8 p. 107.

†*Saxicavidae*, YOKOYAMA 566.

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†*Spisula* with *S. ramonensis attenuata*,
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U.S.A., CLARK Univ. Cal. Pub. Bul.
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Neoteredo subgen. n. with *Teredo* (*N.*)
reynaei sp. n. Dutch Guiana, BARTSCH
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†*Pholadidae*, YOKOYAMA 566.

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Xylophaga praestans, TOMLIN 489.

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land and New Zealand; *capensis*
S. Africa spp. n., CALMAN Proc. Zool.
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†*Antigona* with *A. (Artena) neglecta*,
A. (Ventricola) undosa spp. n. Oligocene
U.S.A., CLARK Univ. Cal. Pub. Bul.
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†*Cadokia (Jagonia) magnoliana* var.
borinquenense var. n. Tertiary Porto
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†*Diplodonta stephensoni* sp. n. Oli-
gocene U.S.A., CLARK Univ. Cal.
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†*Divaricella*, HUBBARD 265.—*D.*,
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†*Fimbria*, LANGE 319.

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ODHNER Ark. Zool. 12 p. 26.—*L.*,
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†*Lucina* with *L. collazoensis* sp. n.
Tertiary Porto Rico, HUBBARD New
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†*Lucinidae*, YOKOYAMA 566.

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†*Miltha iheringiana* sp. n. Tertiary
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†*Mutiella tetragona* sp. n. Jura E.
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†*Phacoides* with *P. (Pseudomiltha)*
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†*Tancredia tellina* sp. n. Jura E.
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†*Linearia praecursor* sp. n. Jura E.
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†*Metis rostellata* sp. n. Oligocene
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Tellina piratica sp. n. North-West
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†*Tellina dunveganensis*, *T.* (*Moera*) *peaceriverensis* spp. n. Cretaceous Canada, McLEARN Can. Field Nat. 34 pp. 53–55.—*T.* with *T. praecuta*, *tenuilineata* spp. n. Oligocene U.S.A., CLARK Univ. Cal. Pub. Bul. Dept. Geol. 11 pp. 152–153.—*T. strophoidea*, *portoricoensis*, *T.* (*Scissula*) *grabani* spp. n. Tertiary Porto Rico, HUBBARD New York Acad. Sci. 3 pp. 123–124.—*T.* (*Angulus*) *disparoides* sp. n. Tertiary Porto Rico, MAURY New York Acad. Sci. 3 p. 42.—*T.*, HENNIG 246.

†*Tellinidae*, YOKOYAMA 566.

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†*Amphidesma* (*Taria*) *crassiformis* sp. n. Tertiary N. Zealand, MARSHALL & MURDOCH Trans. and Proc. N.Z. Inst. 52 p. 136.

†*Cuspidaria* with *C. juanadiaza* sp. n. Tertiary Porto Rico, MAURY New York Acad. Sci. 3 pp. 26–27.

†*Cyathodonta weaveri* sp. n. Oligocene U.S.A., Clark Univ. Cal. Pub. Bul. Dept. Geol. 11 p. 137.—*C. reedsi* sp. n. Tertiary Porto Rico, MAURY New York Acad. Sci. 3 p. 25.—*C.*, HUBBARD 265.

†*Edmondia* (?) *washingtonensis*, *minuta* spp. n. Permian U.S.A., STAUFFER & SCHROYER Ohio Geol. Surv. 22 p. 144.

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†*Pholadomya*, HENNIG 246.—*P.*, LANGE 319.

†*Pholadomyidae*, YOKOYAMA 566.

†*Pleuromya* (*Myacites*) *stricturata* sp. n. Trias, MANSUY Mem. Serv. géol. Indochine 3 p. 33.—*P.*, HENNIG 246.

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†*Thracia*, HENNIG 246.

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†*Acrochordiceras anodosum* sp. n. Trias, WELTER Pal. Timor 5 p. 111.

Acruroteuthis nom. n. for *Acroteuthis* Berry 1913, BERRY Nautilus 34 pp. 66–67.

†*Agathiceras* with *A. sundaicum*, *martini* and var. *globosa*, *oyensi*, *timorense* var. *involuta*, *rothpletzi*, *beyrichi*, (*Doryceras* ?) *wichmanni* spp. & varr. n. Permian, HANIEL Pal. Timor 3 pp. 66–86.

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- †*Ammonites*, KLÄHN 307.
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- Chunella* nom. n. for *Japettella (pars)* Hoyle, SASAKI U.S. Nation. Mus. Proc. 57 p. 170.
- Cirroteuthis*, JOUBIN 293.
- †*Cladiscites* with *C. beyrichi*, *b. striatissimus*, *externecavatus* spp. n. Trias, WELTER Pal. Timor 1 pp. 170–175.—*C. substriatulus* sp. n. Trias, WELTER Pal. Timor 5 p. 90.
- †*Clionites* with *C. ares timorensis*, *paucinodosus*, *intermedius*, *involutus*, *gandolphi timorensis*, *amarassicus*, *curvicostratus* spp. n. Trias, WELTER Pal. Timor 1 pp. 133–140.
- †*Clydonautilus noricus timorensis*, *compressus* spp. n. Trias, WELTER Pal. Timor 1 pp. 215–217.
- †*Coelonautilus trapezoidalis* sp. n. Carboniferous England, JACKSON Mem. Manchester Lit. and Phil. Soc. 63 No. 3 p. 2.
- †*Coilopoceras*, ROMAN & MAZERAN 433.
- †*Cosmoceras*, COUFFON 136.
- †*Cosmonautilus malayicus* sp. n. Trias, WELTER Pal. Timor 1 p. 220.
- Cranchia*, JOUBIN 293.
- †*Craspedites africanus* sp. n. Jura East Africa, ZWIERZYCKI Berlin Arch. Biontol. 3 p. 59.

- †*Cruciloboceras crucilobatum* sp. n. Raasayen, BUCKMAN Type Amm. 23 pl. clxxviii.
- Crystalloteuthis heringiana* sp. n. N.W. Pacific, SASAKI U.S. Nation. Mus. Proc. 57 p. 202.
- Ctenopteryx*, JOUBIN 293.
- †*Cycloclymenia helenae, pasquayi, minervae, glaucopis* spp. n. Devon Germany, RENZ Breslau Jahresb. Ges. v. Cult. 91 pp. 3–15.
- †*Cyclolobus* with *C. subcumminsi* sp. n. Permian, HANIEL Pal. Timor 3 pp. 113–120.
- †*Cymaclymeniidae*, WEDEKIND 531.
- †*Cyrtopteurites malayicus* sp. n. Trias, WELTER Pal. Timor 1 p. 144.
- †*Daraelites submeeki* sp. n. Permian, HANIEL Pal. Timor 3 p. 23.
- †*Dayiceras polymorphoides* sp. n. Lias England, SPATH Geol. Mag. 57 p. 541.
- †*Dichotomoceras dichotomum* sp. n. Jura, BUCKMAN Type Amm. 21 & 22 pls. cxxxixb, c, d, e.
- †*Dictyoconites kittlii, geyeri* spp. n. Trias, DIENER Wien Jahrb. Geol. Reichsanst. 68 p. 487.—*D.* with *D. multisulcatus* and var. *crassa, ovalis, planus, elegans* spp. & var. n. Trias, BÜLOW Pal. Timor 4 pp. 40–53.
- †*Didymites* with *D. malayicus* sp. n. Trias, WELTER Pal. Timor 1 p. 108.
- †*Diplesioceras* gen. n. with *D. diplesium* sp. n. Jura, BUCKMAN Type Amm. 23 & 24 p. 25 pl. clxxvii.
- †*Discites (Domatoceras) arthaberi* sp. n. Permian, HANIEL Pal. Timor 3 p. 129.
- †*Discophyllites* with *D. debilis timorensis* sp. n. Trias, WELTER Pal. Timor 1 pp. 199–204.
- †*Distichites* with *D. pudens, p. fatuensis, megacanthus timorensis* spp. n. Trias, WELTER Pal. Timor 1 pp. 159–162.
- Doratopsis*, JOUBIN 293.
- †*Duvalia elegantissima* sp. n. Jura East Africa, ZWIERZYCKI Berlin Arch. Biontol. 3 p. 21.
- †*Eboraciceras subordinarium* sp. n. Jura, BUCKMAN Type Amm. 23 pl. clxxii.
- †*Ebrayiceras* gen. n. with *E. ocellatum, jactatum, rursus, pseudo-anceps* spp. n. Jura, BUCKMAN Type Amm. 24 pp. 23–24 pls. clxxiii clxxiv.
- †*Ectolcites duncani timorensis* sp. n. Trias, WELTER Pal. Timor 1 p. 163.
- †*Eichwaldiceras* gen. n., BUCKMAN Type Amm. 23 p. 20.
- Eledone*, JOUBIN 293.
- Eledonella*, JOUBIN 293 & 294.
- Eledonellidae* nom. n. for *Bolitaenidae*, Chun., SASAKI U.S. Nation. Mus. Proc. 57 p. 170.
- Enoploion*, JOUBIN 293.
- Enoplateuthis*, SASAKI 444.
- Enoptroteuthis* gen. n. with *E. spinicauda* sp. n. W. Atlantic, BERRY U.S. Nation. Mus. Proc. 58 pp. 294–295.
- †*Epalxites latansatus, formosus* spp. n. Jura, BUCKMAN Type Amm. 21 & 22 pl. cli & clix.
- †*Episageceras noellingi, kaslinense* spp. n. Permian, HANIEL Pal. Timor 3 pp. 47 & 146.
- Euplexaura pendula* sp. n. Western Australia, GRIMPE Zool. Anz. 48 p. 333.
- †*Eudmetoceras eudmetum* sp. n. Jura, BUCKMAN Type Amm. 23 pl. clxxix.
- †*Eudolobus (Solenocheilus) brouweri* sp. n. Permian, HANIEL Pal. Timor 3 p. 126.
- Euprymna*, SASAKI 444.
- †*Florianites alternecostatus, (?) compressus* spp. n. Trias, WELTER Pal. Timor 5 pp. 109–111.
- Fusocranchia* with *F. alpha* gen. & sp. n. Between Azores and Canary Isds., JOUBIN Res. Camp. Sci. Monaco 54 p. 73.
- Galiteuthis*, JOUBIN 293.—*G.*, SASAKI 444.
- †*Gastioceras beluense, somoholense* spp. n. Permian, HANIEL Pal. Timor 3 pp. 54–58.
- †*Gaudryceras amapondense* sp. n. Cretaceous Pondoland, VAN HOEPEN Ann. Transv. Mus. 7 p. 143.
- †*Genuclymenia*, RENZ 421.
- †*Glyphioceras angulatum* sp. n. Permian, HANIEL Pal. Timor 3 pp. 51–54.
- †*Goliathiceras galeatum* sp. n. Jura, BUCKMAN Type Amm. 22 pl. clvi.

†*Gomphoceras denseseptatum* sp. n. Devon, OPPENHEIMER Brünn Verh. Natf. Ver. 54 p. 172.

Gonatopsis gen. n. with *G. octopedatus* sp. n. N.W. Pacific, SASAKI U.S. Nation Mus. Proc. 57 p. 198.

Gonatus, SASAKI 444.

†*Gonioclymeniidae* with *Gonioclymenia tosleyi*, *crassa*, *hoevelensis*, *kilianii*, *tornquisti*; spp. n.; *Kalloclymenia* gen. n. Devon Germany, WEDEKIND Göttingen Abh. Ges. Wiss. 10 pp. 54–69.

†*Gonionutilus* (?) *Salisburgensis timorensis* sp. n. Trias, WELTER Pal. Timor 1 p. 221.

†*Gonionotites* with *G. diblasi*, *timorensis*, *waldthauseniae* spp. n. Trias, WELTER Pal. Timor 1 pp. 90–91.

†*Griesbachites* with *G. pseudomedleyanus timorensis*, *p. costatus*, *malayicus*, *medleyanus inflatus*, *amarassicus* spp. n. Trias, WELTER Pal. Timor 1 pp. 93–100.

†*Gymnites volzi*, *vastesellatus*, *amanubanensis*, *meridianus* spp. n. Trias, WELTER Pal. Timor 5 pp. 117–120.

†*Halorites* with *H. superbus timorensis*, *malayicus*, *phaonis timorensis*, *sundaicus*, *wanneri* spp. n. Trias, WELTER Pal. Timor 1 pp. 33–47.

†*Hamites*, ROMAN & MAZERAN 433.

†*Haploceras* with *H. (Hecticoceras) spira*, *H. priscum* spp. n. Jura East Africa, ZWIERZYCKI Berlin Arch. Biontol. 3 pp. 45–50.

†*Harpoceras*, SAXL 446.—*H.*, SPENGLER 474.

†*Haselburgites* gen. n. with *H. admirandus* sp. n. Jura, BUCKMAN Type Amm. 24 p. 30.

†*Hecticoceras*, COUFFON 136.—*H.*, SPATH 470.

†*Hedenstroemia kaslinensis* sp. n. Permian, HANIEL Pal. Timor 3 p. 148.

†*Helictites malayicus* sp. n. Trias, WELTER Pal. Timor 1 p. 128.

Hensenioteuthis, JOUBIN 293.

Heteroteuthis, JOUBIN 293.

†*Hildoceras lantenoisi* sp. n. Lias, MANSUY Mem. Serv. geol. Indochine 3 p. 38.—*H.*, SAXL 446.

†*Hibolites*, COUFFON 136.

†*Holcodiscus faku*, *africanus* spp. n. Cretaceous Pondoland, VAN HOEPEN Ann. Transv. Mus. 7 pp. 144–146.—*H.* with *H. subquadratus* sp. n. Jura East Africa, ZWIERZYCKI Berlin Arch. Biontol. 3 pp. 70–72.

†*Holcostephanus crassus* sp. n. Jura East Africa, ZWIERZYCKI Berlin Arch. Biontol. 3 p. 58.

†*Hyattoceras subgeinitzi* sp. n. Permian, HANIEL Pal. Timor 3 p. 112.

†*Hypocladiscites subaratus compressus*, *s. planatus*, *subcarinatus timorensis* spp. n. Trias, WELTER Pal. Timor 1 pp. 175–177.

Idiosepius, SASAKI 444.

Illex, JOUBIN 293.

†*Indonesites* gen. n. with *I. dieneri* sp. n. Trias, WELTER Pal. Timor 1 p. 103.

†*Isculites crasseplicatus* sp. n. Trias, WELTER Pal. Timor 1 p. 53.—*I. ladinus*, *bihatiensis* spp. n. Trias, WELTER Pal. Timor 5 pp. 80–81.

†*Japonites* with *J. meridianus*, *subacutus* spp. n. Trias, WELTER Pal. Timor 5 pp. 122–127.

†*Jovites* with *J. daciformis timorensis* sp. n. Trias, WELTER Pal. Timor. 1 pp. 47–48.

†*Juvavionutilus geyeri* sp. n. Trias, DIENER Wien Denk. Ak. Wiss. 96 p. 776.

†*Juvavites* with *J. verbeeki*, *ehrichi timorensis*, *subinterruptus crasseplicatus*, *nepotis timorensis*, *idenburgi*, *brouweri*, *oyensi*, *decheni timorensis*, *molengraaffi*, *tobleri*, *gonionotitiformis*, *J. (Dimorphites ?) weberi*, *fissicostatus timorensis*, *f. interruptus*. spp. n. Trias, WELTER Pal. Timor 1 pp. 54–68.

†*Kepplerites*, COUFFON 136.

†*Keyserlingites angustecostatus* sp. n. Trias, WELTER Pal. Timor 5 p. 108.

†*Korythoceras* gen. n. with *K. korys* sp. n. Jura, BUCKMAN Type Amm. 22 p. 17.

†*Lamberticeras* gen. n., BUCKMAN Type Amm. 21 p. 14.

Leachia, JOUBIN 293.

†*Leoniceras*, ROMAN & MAZERAN 433.

†*Leptospinctus leptus*, *cleistus* spp. n. Jura, BUCKMAN Type Amm. 22 pls. clx clxi.

- †*Lioceras*, KLÄHN 307.
Liocranchia, SASAKI 444.
 †*Lissoceras*, COUFFON 136.
Loligo brekeri, OKUDA 377.—*L. b.*, OKUDA (and others) 379.—*L. vulgaris*, WINCKWORTH 580.—*L.*, SASAKI 444.
 †*Lytoceras* with *L. hennigi* sp. n. Jura East Africa, ZWIERZYCKI Berlin Arch. Biontol. 3 pp. 40–44.—*L.*, OPPENHEIMER 385.
 †*Macrocephalites*, COUFFON 136.
 †*Macroscaphites*, ROMAN & MAZERAN 433.
 †*Malayites* gen. n. with *M. informis*, *singularis*, *geniculatus*, *g. elegans*, *crasseplicatus*, *indomalayicus*, *sundaicus* spp. n. Trias, WELTER Pal. Timor 1 pp. 83–89.
 †*Masckeites densus* sp. n. Jura. BUCKMAN Type Amm. 21 pl. clii.
Mastigoteuthis, JOUBIN 293.—*M.*, SASAKI 444.
 †*Medlicottia* with *M. artiensis* var. *timorensis*, *subprimas* var. & sp. n. Permian, HANIEL Pal. Timor 3 pp. 41–47.
Megalocranchia, SASAKI 444.
 †*Megaphyllites evolutus* sp. n. Trias, WELTER Pal. Timor 5 p. 114.
Melanoteuthis, JOUBIN 293.
 †*Metacarnites dieneri* sp. n. Trias, WELTER Pal. Timor 1 p. 157.
 †*Miltites* with *M. malayicus* sp. n. Trias, WELTER Pal. Timor 1 pp. 126–127.
 †*Molengraaffites* gen. n. with *M. crassus*, *carinatus*, *compressus* spp. n. Trias, WELTER Pal. Timor 1 pp. 100–103.
 †*Monophyllites* with *M. arthaberi*, *preudo-pradyumna* spp. n. Trias, WELTER Pal. Timor 5 pp. 115–117
 †*Morrisiceras sphaera* sp. n. Jura, BUCKMAN Type Amm. 22 pl. clxvii
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 †*Nautiloidea*, HIND 253.
Nautilus pompilius, RIDDLE 424a.
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 †*Nautilus* with *N. (Aganides) bitauniensis*, *N. molengraaffi*, *wanneri* spp. n. Permian, HANIEL Pal. Timor 3 pp. 132–139.—*N.* with *N. plicatus*; *dietrichei*, *expletus*, *latifrons* spp. n. Jura East Africa, ZWIERZYCKI Berlin Arch. Biontol. 3 pp. 23–30.—*N.* with *N. hallstattensis* sp. n. Lias Austria, SPENGLER Jahrb. Geol. RchsAnst. 68 p. 468.—*N.*, COUFFON 136.—*N.*, ROMAN & MAZERAN 433.
 †*Neotibetites weteringi timorensis* sp. n. Trias, WELTER Pal. Timor 1 p. 156.
Octopodoteuthis, JOUBIN 293.
Octopus macropus, BOTTAZZI 68.—*O.*, JOUBIN 293.
 †*Œcoptychius*, COUFFON 136.
 †*Œcoptychoceras* gen. n., BUCKMAN Type Amm. 23 p. 24.
 †*Œkotraustes*, COUFFON 136.
Ommastrephes sagittatus, RITCHIE 425.—*O.*, JOUBIN 293.—*O.*, SASAKI 444.
Onychoteuthys robusta, BACCIALON 26.—*O.*, JOUBIN 293.
Opistoteuthis, SASAKI 444.
 †*Oppelia*, COUFFON 136.
 †*Orthoceras* with *O. rotundulum*, *mojsisovici* var. *sulcata*, *indo-australicum*, *pulchristriatum* spp. & var. n. Trias, BÜLOW Pal. Timor 4 pp. 6–16.—*O.* with *O. verbeeki*, *bitauniense*, *welteri*, *maubesiense* spp. n. Permian, HANIEL Pal. Timor 3 pp. 140–145.—*O.*, FERRONNIÈRE 186.
 †*Oxynoticeras buckii* sp. n. Deiran, BUCKMAN Type Amm. 23 pl. clxva B.—*O.* with *O. virgatum* sp. n. *O. rigidum* nom. n. *O. angustatum* sp. n. *O. subguibalianum* nom. n. *O. stenomphalum* sp. n. *O. lanceolatum* nom. n. *O. inornatum*, *fisilobatum*, *patella*, *simillimum*, *parvulum* spp. n. *O. lotharingiforme* nom. n. for *O. guibalianum*, Geyer *O. sulcatum scalpellum*, *oxynotum* var. *hierlitzica*, *latecarinatum* spp. & var. n., PIA Wien Abh. Geol. RchsAnst. 23 pp. 7–18 24–30.
 †*Oyzychymenia ornata* var. *sudetica*, *striata* var. *silesiaca* varr. n. Devon Germany, RENZ Breslau Jahresb. Ges. v. Cult. 91 p. 18.

†*Pachydiscus* with *P. rhodanicus* sp. n. Cretaceous France, ROMAN & MAZERAN Lyon Arch. Mus. hist. nat. 12 pp 14–18.

†*Papanoceras*, *indoaustralicum*, (*Stacheoceras*) *timorense* spp. n. Permian, HANIEL Pal. Timor 3 pp. 88–106.

†*Papilliceras papillatum* sp. n. Jura, BUCKMAN Type Amm. 21 pl. clA B.

†*Parahoplites*, OPPENHEIMER 385.

†*Paralegoceras sundaicum* with forms *involuta* and *evoluta* *P. pseudomeneghinii* spp. & formae n. Permian, HANIEL Pal. Timor 3 pp. 58–65.

†*Paranautilus meridianus sundaicus* sp. n. Trias, WELTER Pal. Timor 1 pp. 205–206.

†*Parapopanoceras dyadicum* sp. n. Permian, HANIEL Pal. Timor 3 p. 106.

†*Parapronites konincki* var. n. *timorensis* Permian, HANIEL Pal. Timor 3 p. 29.

†*Pararcestes zitteli timorensis*, *sublabiatus timorensis* spp. n. Trias, WELTER Pal. Timor 1 p. 191.

†*Parasageceras* gen. n. with *P. discoideale* sp. n. Trias, WELTER Pal. Timor 5 p. 113.

†*Paratibetites* with *P. insulanus*, *meridianus*, *tornquisti timorensis*, *augustosellatus posterior* spp. n. Trias, WELTER Pal. Timor 1 pp. 148–155.

†*Parkinsonidae* fam. n., BUCKMAN Type Amm. 24 p. 28.

†*Paroxyntoceras* with *P. undulatum*, *subundulatum*, *tripartitum* spp. n., PIA Wien Abh. Geol. RchsAnst. 23 pp. 18–23.

†*Patoceras*, COUFFON 136.

†*Pavloviceras* gen. n. with *P. bathyomphalum*, *stibarum*, *roberti* spp. n. Jura, BUCKMAN Type Amm. 22 & 23 pp. 18 & 19.

†*Pendobigotella otiophora* sp. n. Jura, BUCKMAN Type Amm. 24 pl. cxci.

†*Perisphinctes* with *P. staffi*, *latisimus* spp. n. Jura E. Africa, ZWIERZYCKI Berlin Arch. Biontol. 3 pp. 60–65.—*P.*, COUFFON 136.

†*Phragmoceras proboscideum*, *prominens*, p. var. *minus*, *dentatum*, *obesum*, *farcimen*, *dubium*, *praecurvum*, *transversale*, *undulatum*, *gradatum*, *acuminatum*, *retortum*, *brevidomicilium*, *lilje-*

valli, *parvulum*, *discoideum*, *gigas*, *simile*, *sigmoideum*, *inflexum*, *lamellosum*, *costatum*, *mobergi*, *limbatum*, *eurystoma*, *munthei*, *fasciatum*, *convolutum*, *ellipticum*, *incertum*, spp. & var. n. Upper Silurian Sweden, HEDSTRÖM Stockholm Geol. Unders 15 pp. 8–31.

†*Phylloceras* with *P. krenkeli*, *deplanatum*, Jura; *P. eris* Cretaceous spp. n. E. Africa, ZWIERZYCKI Berlin Arch. Biontol. 3 pp. 31–39.—*P. umzambiense* sp. n. Cretaceous Pondoland, VAN HOEPEN Ann. Transv. Mus. 7 p. 142.—*P. grothi*, *lytoceroides* spp. [? n.] Cretaceous Majorca, FALLOT Trab. Mus. Nac. Ci. Nat. Madrid 26 pp. 20–28.—*P.*, COUFFON 136.—*P.*, SAXL 446.—*P.*, SPATH 471.

†*Pinacoceras schneideri* sp. n. Trias, WELTER Pal. Timor 5 p. 92.

†*Placites meridianus* sp. n. Trias, WELTER Pal. Timor 1 p. 197.

†*Platyclymeniidae* with *Platyclymenia rotundata*, *richteri*, *bicostata*, *walcotti*, *curvicosta*, *barrandei*, *mirabilis*, *quendstedti*, *ruedemanni*; and *Laevigites* gen. n. with *L. hoevalensis*; *Oxyclymenia subundulata* and var. *elegantula*, *O. galeata*, *wocklumeri*, *lamellosa* spp. & var. n. Devon Germany, WEDEKIND Göttingen Abh. Ges. Wiss. 10 pp. 28–54.

†*Pleuromutilus* (*Enoploceras* ?) *malayicus* sp. n. Trias, WELTER Pal. Timor 1 p. 229.—*P. dyadicus* sp. n. Permian, HANIEL Pal. Timor 3 p. 128.—*P.* with *P.* (*Enoploceras*) *Lepsiusiformis*, *ausseanus* spp. n. Trias, DIENER Wien Denk. Ak. Wiss. 96 pp. 756–759.

†*Poculisphinctes auricularis* sp. n. Jura, BUCKMAN Type Amm. 24 pl. clxxxvi.

Polypus with *P. glaber*, *abruptus*, *ocholensis*, *tsugarensis*, *pustulosus*, *spinosus*, *yendoi*, *alatus*, *macropus* var. *minor*, *tenuipulvinus*, *salebrosus*, *validus* spp. n. N.W. Pacific, SASAKI U.S. Nation. Mus. Proc. 57 pp. 171–183.—*P. scorpio* sp. n. W. Atlantic, BERRY U.S. Nation. Mus. Proc. 58 p. 299.—*P.* with *P. wolfi* sp. n. Malaysia, WÜLKER Abh. Senckenb. Ges. 34 pp. 456–459.—*P.*, WÜLKER 563.

†*Praeglyphioceras*, RENZ 421.

†*Prionoceras prionodes* sp. n. Jura, BUCKMAN Type Amm. 21 pl. clv.

†*Prionodoceras* gen. n., BUCKMAN Type Amm. 22 p. 17.

†*Prionotropis*, ROMAN & MAZERAN 433.

†*Proarcestes* with *P. hanieli* sp. n. Trias, WELTER Pal. Timor 1 pp. 180–181.

†*Proclydonautilus* with *P. discoidalis*, *singularis*, *inflatus*, *gasteroptychus timorensis* spp. n. Trias, WELTER Pal. Timor 1 pp. 206–214.—*P. tuvalicus*, *ernesti*, *ermollii* spp. n. Trias, DIENER Wien Denk. Ak. Wiss. 96 pp. 771–774.

†*Pronorites uralensis* var. n. *timorensis* Permian, HANIEL Pal. Timor 3 p. 25.

†*Propinacoceras simile*, *insulcatum*, *transitorium* spp. n. Permian, HANIEL Pal. Timor 3 pp. 34–41.

†*Protetragonites*, SPATH 471.

†*Protowarthia hispanica* sp. n. Silurian Spain, BORN Abh. Senckenb. Ges. 36 p. 343.

†*Pterotoceras* gen. n. with *P. arthaberi* sp. n. Trias, WELTER Pal. Timor 5 p. 83.

Pterygioteuthis, JOUBIN 293.

†*Ptychites amarassicus* sp. n. Trias, WELTER Pal. Timor 5 p. 128

†*Puzosia kiliani* and var. *inornata* sp. & var. [? n.] Cretaceous Majorca, FALLOT Trab. Mus. Nac. Ci. Nat. Madrid 26 p. 48.—*P.* with *P. stremmi* sp. n. Cretaceous East Africa, ZWIERZYCKI Berlin Arch. Biontol. 3 pp. 67–69.—*P.* with *P. gaudemaris* sp. n. Cretaceous France, ROMAN & MAZERAN Lyon Arch. Mus. hist. nat. 12 pp. 19–22.

Pyrgopsis lemur sp. n. W. Atlantic, BERRY U.S. Nation. Mus. Proc. 58 p. 298.

†*Quenstedticeras*, COUFFON 136.

†*Reineckia*, COUFFON 136.

Rhabdoplexaura nom. n. [Cephalopoda], GRIMPE Zool. Anz. 48 p. 333.

Rhynchoteuthis, JOUBIN 293.

†*Rinikinites tonkinensis* sp. n. Mesozoic Indo China, MANSUY Mem. Serv. géol. Indochine 3 p. 75.

Rossia with *R. mollicella*, *bipapillata* spp. n. N.W. Pacific, SASAKI U.S. Nation. Mus. Proc. 57 pp. 188–190.—*R.*, JOUBIN 293.

†*Sagenites malayicus* sp. n. Trias, WELTER Pal. Timor 1 p. 107.

†*Sagitticeras* gen. n. with *S. sagitta*, *fastigatum* spp. n. Jura, BUCKMAN Type Amm. 23 pp. 19–20.

Sandalops pathopsis, *ecthambus* spp. n. W. Atlantic, BERRY U.S. Nation. Mus. Proc. 58 p. 297.

Scaeurgus, SASAKI 444.

†*Scaphites* with *S. aequalis* Sow. mut. n. *turonensis*; *S. planus* sp. n. Cretaceous France, ROMAN & MAZERAN Lyon Arch. Mus. hist. nat. 12 pp. 12–13.—*S.*, NOWAK 372.

†*Schumardites keideli* sp. n. Upper Carbon. China, LEUCHS München Sitzb. Bay. Ak. 1919 p. 222.

†*Sequenziceras*, SAXL 446.

Sepia with *S. carinata*, *Kobiensis* var. *albatrossi* var. & sp. n. N.W. Pacific, SASAKI U.S. Nation. Mus. Proc. 57 pp. 191–195.—*S. officinalis*, GALIANO 196 & 197.—*S.*, JOUBIN 293.—*S.*, WÜLKER 563 & 564.

Sepiola, SASAKI 444.

Sepiolina, SASAKI 444.

Sepioteuthis with *S. malayana* sp. n. Malaysia, WÜLKER Abh. Senckenb. Ges. 34 pp. 452–453 460–487.—*S.*, SASAKI, 444.

†*Sibirites militiformis*, *meridianus* spp. n. Trias, WELTER Pal. Timor 1 pp. 124–125.

†*Silesites seranonis* var. [? n.] *balearensis* Cretaceous Majorca, FALLOT Trab. Mus. Nac. Ci. Nat. Madrid 26 p. 55.

†*Sirenites* with *S. malayicus* sp. n. Trias, WELTER Pal. Timor 1 pp. 164–166.

†*Sowerbyceras*, SPATH 471.

†*Sphaeroceras*, COUFFON 136.

†*Sphaeroceratidae* fam. n., BUCKMAN Type Amm. 23 p. 22.

Spirula, JOUBIN 293.

Stauroteuthis albatrossi sp. n. N.W. Pacific, SASAKI U.S. Nation. Mus. Proc. 57 p. 169.

†*Steinmannites multinodosus*, *irregularis*, *hoensii timorensis* spp. n. Trias, WELTER Pal. Timor 1 pp. 140–142.

†*Stenarcestes malayicus* sp. n. Trias, WELTER Pal. Timor 1 p. 193.

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- †*Stepheoceras*, COUFFON 136.
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IX. ARTHROPODA

As experience shows that the adoption of "Arthropoda" and "Vertebrata" as separate sections gives rise to an useless repetition of titles without any corresponding advantage, it has been decided that these two divisions may be dispensed with in future in the Zoological Record.

[EDITOR.]

X. CRUSTACEA

ARRANGED BY

STEPHEN K. MONTGOMERY, B.A., B.Sc.

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(The arrangement is based on that of Borradaile, Bibliography of the Marine Fauna, Challenger Society. 2nd Edn., 1914.)

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XI. ARACHNIDA

TO WHICH ARE ADDED

GIGANTOSTRACA (XIPHOSURA, TRILOBITA, EURYPTERIDA),
PANTOPODA, TARDIGRADA, PENTASTOMIDA, MYRIOPODA
and PROTOTRACHEATA

ARRANGED BY

STEPHEN K. MONTGOMERY, B.A., B.Sc.

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PROTOTRACHEATA

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Dakin, W. J. Fauna of Western Australia.—III. Further contributions to the study of the Onychophora. The anatomy and systematic position of West Australian *Peripatooides*, with an account of certain histological details of general importance in the study of *Peripatus*. London Proc. Zool. Soc. 1920 (367-389) pls. i-v. 1

Duboscq, O. Notes sur *Opisthopatus cincipes* Purc. I. Sur les poils des papilles primaires et leur developpement. II. Les organes ventraux du cerveau. Arch. Zool. Paris 59 1920 (21-27) figs. III. Les glandes salivaires. Arch. Zool. Paris 59 1920 (67-74) figs. 2

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XII. INSECTA

BY

D. SHARP

(Assisted by H. CAMPION and W. H. T. TAMS).

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Cumberland, *Neuroptera* and *Trichoptera*, Day p. 92 Ent. Mag. 56.

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Worcestershire, Williams p. 237 Ent. 53.

Ireland, Langham, 1089.

(e) Central and Eastern Europe.

Insecta.

Denmark: Ussing, 1819.

Germany: Schirmer, Mark Brandenburg, D.E.Z. 1916 1917 383 & 384; Berlin, Schirmer p. 397 D.E.Z. 1918; Meunier; Schulze, 1627, 1628.

Coleoptera.

Mader, 1177; Roubal, 1568.

Denmark: Anderson, 64; Hansen, 809a; Sønderup, 1705; West, 1897.

Netherlands: Everts, Limburg, Ent. Ber. 5 pp. 244 & 245; Everts, 620; MacGillavry, 1171.

Belgium: Boire, p. 178 Ann. Soc. ent. Belgique 60; Carpentier, *Cleonus cinereus*, Ann. Soc. ent. Belgique 60 p. 148; Carpentier, pp. 178 & 179 Ann. Soc. ent. Belgique 60; Frennet, 691, 692; Frennet, Lorraine, Bull. Soc. ent. Belgique 2 pp. 101–103; Guillaume, Curculionidae, p. 122 Ann. Soc. ent. Belgique 60; Guillaume p. 78 Bull. Soc. ent. Belgique 2; Van Dorselaer, 1822.

Germany: Brandenburg, Voss p. 190 D.E.Z. 1919; Delahon, 480, 481, 482; Hubenthal, 918, 919; Künne- mann, 1053; Künne- mann, Bledius, Ent.

Blätt. 16 p. 241; Neresheimer & Wagner, 1801; Reineck, 1502; Scholz, 1617; Schubart, 1622; Wagner, *Stenus glabellus*, D.E.Z. 1920 p. 230; Warda, Illiger Käfer Preussens, 1857.

Bohemia: Blattný, 234; Blattný & Blattný, 235; Krása, 1042; Knirsch, 1029, 1030, 1031; Wanka, 1855.

Switzerland: Born, 245, 246.

Poland: Tenenbaum, 1771.

Rumania: Liebmann, 1130.

Croatia: Stiller, 1733.

Sarepta: Fleischer, 650.

Hymenoptera.

Wagner, 1848.

Denmark: Jørgensen, 967; Kryger, 1052.

Netherlands: Lindemans, *Crabro*, Ent. Ber. 5 p. 203; Lindemans, *Ichneumonidae*, Ent. Ber. 5 p. 201; Lindemans, *Pompilidae*, Ent. Ber. 5 p. 206; Lindemans, *Tiphia*, Ent. Ber. 5 p. 209; Oudemans, 1367; Oudemans, *Schizocera geminata*, Ent. Ber. 5 p. 261; Smits van Burgst, 1698, 1699, 1700.

Belgium: Ball, 127; Dubois, 534, 535.

Germany: Alfken, 57, 58, 59, 60; Brandenburg, *Halictus*, Blüthgen D.E.Z. 1919 pp. 210 & 211; Brandenburg, *Tenthredinidae*, Hedicke p. 206 D.E.Z. 1919; Meyer, 1234; Müller, 1282;

Switzerland: Carl, 321; Santschl, hot-houses, 1591; Steek, *Alyson tricolor*, Mitt. Schweiz. ent. Ges. 13 p. 77.

Wagner, *Formila chevrolati*, D.E.Z. 1920 p. 222.

Lepidoptera.

Nabokoff, *Rhop.* 1291; Rebel, *Parnassius*, 1491.

Wehrli, 1878.

Denmark: Jensen, 961; Knudsen, 1032.

Netherlands: Oberthür, 1341; Toxopeus, 1794.

Germany: Brandenburg, *Larentia parallelolneata*, Belling, p. 220 D.E.Z. 1920; Brandenburg, *Chappuis* D.E.Z.

1918 pp. 387-392; Heinrich, 853; Brandenburg, *Microlep.*, Hering pp. 188 & 189 D.E.Z. 1919; Brandenburg, *Microlep.*, Hering pp. 211-213 D.E.Z. 1920; Brandenburg, *Microlep.*, Hering pp. 428-430 D.E.Z. 1919; Brandenburg, *Microlep.*, Hering pp. 433 & 434 D.E.Z. 1920; Warnecke, 1858.

Austria: ANON., 72; Belling, 156; Mitterberger, 1247.

Switzerland: Warren, 1859.

Trichoptera.

Belgium: Lestage *Ithytrichia lamellaris*, p. 30 Ann. Soc. ent. Belgique 60.

Neuroptera.

†Handlisch Germany 807.

Switzerland: Steck, 1725.

Diptera.

Denmark: Henriksen, 864; Kuntze, 1055; Lundbeck, 1148; Nielsen, 1311.

Netherlands: de Meijere, 1214; Schmitz, 1614.

Belgium: Goetgebuer, 761; Goetgebuer & Tonnoir, 762; Tonnoir, 1792; Tonnoir, *Cacoxenus indagator*, p. 63 Ann. Soc. ent. Belgique 60.

Germany: Kramer, 1041; Brandenburg, *Alophora hemiptera*, Lichtwardt p. 431 D.E.Z. 1919; Martini, 1210; Riedel, 1529; Sack, 1581; Brandenburg *Syrphidae*, Schirmer pp. 186 & 187 D.E.Z. 1919; Schmitz, 1613; Thienemann, 1779.

Alps: Oldenburg, 1850.

Hungary: Kuntze, 1056.

Aphaniptera.

Switzerland: Jordan & Rothschild, 988.

Hemiptera.

Schumacher, 1635.

Denmark: Jacobsen, 952; Jensen-Haarup, 963; Lundblad, 1150.

Germany: Benick, 167; *Coryphaeus gyllenhalii*, Höhne p. 159 D.E.Z. 1920; Lehmann, 1105; Schumacher, 1636; Brandenburg, Schumacher p. 409 D.E.Z. 1919; Brandenburg, *Serenithia ruficornis*, Schumacher p. 203 D.E.Z. 1919.

Poland: Tenenbaum, 1772.

Thysanoptera.

Netherlands : Priesner, 1459 ;
Bagnall, Hungary, 119.

Psocoptera.

Belgium : Ball, p. 178 Ann. Soc.
ent. Belgique 60.

Paraneuroptera.

Brandenburg, *Crocothemis erythraca*,
Bollow p. 191 D.E.Z. 1919.

Ephemeroptera.

Belgium : Lestage, 1119.

Plecoptera.

Belgium : Lestage, 1120.

Orthoptera.

Czižek, 462.

Mark Brandenburg, Schirmer D.E.Z.
1918 p. 384.

Silisia : Pax, 1397.

Protura.

Switzerland : Handschin, 308.

(f) France.

Insecta.

Hugues, 928 ; Lacroix, 1069, 1070.

Coleoptera.

Barthe, 142 ; Barthe, pp. 38 & 39
Miscell. ent. 25 ; Bedel, 150 ; Deville,
500 ; Garnett, Beaune, p. 49 Canad.
Ent. 52 ; Hoffmann, *Aphodius* Bois de
Boulogne ; Miscell. ent. 25 pp. 22 & 23 ;
Hustache, 933, 935 ; Lavagne, *Pseudo-
phytobius* Bull. Soc. ent. France 1920
p. 39 ; Margier, 1201 ; Normand, 1322 ;
Peschet, 1404 ; Scherdlin, 1605.

Hymenoptera.

Lichtenstein, 1125 ; Lichtenstein &
Picard, 1128.

Lepidoptera.

Blackie, Brittany, *Rhopalocera*, Ent.
53 p. 277 & 278 ; Dumont, 540, 545 ;
Jackson, Pas-de-Calais and Somme,
Rhop., Ent. 53 ; Joannis, 965 ; Morris,
Alpes-maritimes, Entomologist 53 pp.
13-15 & 16 ; Peyerimhoff, 1409 ;
Powell, Angoulême, 1455 ; Ulmer,
1817 ; Walsingham, 1854.

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Diptera.

Léger, 1104 ; Mercier, coast, 1220 ;
Parent, 1378, 1379, 1380, 1381 ; Pierre,
1436 ; Séguy, 1646, 1648, 1650 ; Ville-
neuve, 1834, 1842.

Hemiptera.

Royer, 1575.

Orthoptera.

Margier etc., Gard la Camargue ;
Miscell. ent. 25 pp. 29 & 30.

(g) South Europe and Mediter-
ranean Basin.*Insecta*, collectively.

Ashby, Italy, Ent. Rec. 42 pp. 59-
63, etc. ; Ashby, Turin, Ent. Rec. 32
p. 228-231 ; Ginzberger, 751 ; Houard,
918 ; Werner, 1895.

Coleoptera.

Absolon, 1a ; Apfelbeck, 77, 78 ;
Auzat, 104 ; Blatný, 236 ; Depoli,
490, 491 ; Formánck, 677, 678 ;
Fuente, 715 ; Heyden, 887 ; Iglesias,
943 ; Jeannel, 959 ; Linke, 1131 ;
Matcha, 1211 ; Moroder, 1258 ; Müller,
1276, 1277, 1278, 1280 ; Netolitzky,
1302 ; Normand, 1320, 1321 ; Oben-
berger, 1337 ; Peyerimhoff, 1410, 1411,
1412, 1413 ; Rambousek, 1465-1472 ;
Reitter, 1504, 1511, 1512, 1513 ;
Schatzmayr, 1600, 1601 ; Schuster,
1637 ; Schuster, Egypt and Mesopo-
tania, 1639 ; Stolz, 1735 ; Tenenbaum,
1768, 1769, 1770 ; Voss, 1844, 1845 ;
Winkler, 1917, 1918, 1919 ; Zariquiey,
1924.

Hymenoptera.

Borelli, 244 ; Ceballos, 342 ; Dus-
met, 551 ; Maidl, 1178 ; Minozzi, 1242 ;
Santschi, 1591 ; Santschi, 1594 ; Sil-
vestri, 1686 ; Tavares, 1765.

Lepidoptera.

Blanchard, Macedonia *Rhop.*, Ent.
53 p. 139 ; Chapman, 357 ; Costantini,
417 ; Drenowsky, 533 ; Dumont, 541,
543, 544 ; Escalera, 616 ; Graves,
Turkey, Ent. Rec. 32 pp. 105-107 ;
Hampson, Palestine, Syria, 804 ; Le
Cerf, 1100 ; Lucas, 1140 ; Mace, 1167 ;
Mace, Macedonia *Heteroc.*, Ent. 53
pp. 201-205 ; Querci, Italy, *Rhopalo-
cera*, Ent. Rec. 32 pp. 223-227 ; Rebel,

1488, 1492, 1493; Reverdin, 1519; Rothschild, 1559; Rowland-Brown, Macedonia, *Rhop.*, Ent. 53 pp. 106-109; Stauder, 1719, 1720, 1721; Turner, 1806; Verity, 1826; Weiss, 1883; Zerny, 1928.

Neuroptera.

Klapálek, 1012; Macedonia, a correction, Mace p. 191 Ent. 53; Navás, 1295.

Diptera.

Austen, 102; Becker, 144; Dyar, 557; Kuntze, Corsica, 1057; Ville-neuve, 1837; Zerny, 1929.

Aphaniptera.

Jordan & Rothschild, 989.

Hemiptera.

Alfieri, 56; Bergevin, 176; Codina, 406; Del Guercio, 483; Fuente, 716; Horváth, 912; Leonardi, 1111; Newstead, 1308; Vayssière, 1825.

Thysanoptera.

Priesner, 1457, 1458.

Paraneuroptera.

Bentivoglio, 168-171.

Orthoptera.

Minozzi, 1243; Werner, 1894.

(h) *Caucasus, West & Central Asia*.

Insecta, collectively.

Andrews, 71; Barraud, 141; Kneucker, 1026; Navás, 1298.

Coleoptera.

Andres, 65; Andrewes, Mesopotamia *Chlaenius*, 68; Breit, 265, 267; Champion, Persia, Arabia, 349; Käufel, 998; Obenberger, 1339; Peyerimhoff, 1414; Ramhousek, 1466, 1473; Roubal, 1562, 1565; Scholz, Asia Minor, 1616; Schuster, 1638.

Hymenoptera.

Crawley, 442.

Lepidoptera.

Holdhaus, 896; Meyrick, 1237; Peile, Mesopotamia, *Rhop.*, Ent. 53 p. 65; Prout, 1460; Rebel, 1494; Stoneham, Mesopotamia, p. 22 Ent. 53.

Diptera.

Austen, 102; Barraud, 140; Christophers, 375; Hermann, 877; Patton, 1390, 1392, 1393; Ricardo, 1522; Riedel, 1527, 1528.

Hemiptera.

Haupt, 822; Theobald, *Aphidae*, 1777.

Isoptera.

Silvestri, 1682.

Paraneuroptera.

Morton, 1262, 1263.

Africa.

Insecta, collectively.

Banks, 131; Carpenter, 322; Esben-Petersen, 614; Gedye, 739; Mansfield-Aders, 1195; Needham, 1299; Silvestri, 1687.

Coleoptera.

Achard, 4, 11; Arrow, 86, 91; Aurivillius, 99; Bänninger, 116; Barker, 138; Bedel, 148; Bénard, 158; Benderitter, 159, 160, 161, 162; Benick, 166; Bickhardt, 208, 211; Borchmann, 243; Boucomont, 249; Bourgoin, 254, 255; Champion, 349; Chatanay, 360; Eggers, 594; Gebien, 737; Grouvelle, 790; Hintz, 892; Heller, 857; Horn, 911; Hubenthal, 920; Jordan, 984; Kleine, 1018; Laboissière, 1061-1068; Lallemand, 1084; Lameere, 1087; Lesne, 1112, 1115; Marshall, 1203, 1204, 1205; Maulik, 1212; Moser, 1266, 1267, 1268, 1270, 1271; Obenberger, 1328, 1330, 1331, 1332, 1335, 1338; Ohaus, 1346, 1347; Peschet, 1405; Pic, 1420, 1423, 1426, 1429, 1431, 1432; Schouteden, 1618; Seidlitz, 1651; Sicard, 1679a; Spaeth, 1709; Warren, 1862; Weise, 1884; Wickmann, 1902; Zimmermann, 1931.

Hymenoptera.

Arnold, 84, 85; Bridwell, 278; Cockerell, 383, 403; Dodd, 515; Forel, 675; Girault, C. Good H., 754; Kohl, 1036; Maidl, 1179; Santschi, 1588, 1590, 1591, 1592, 1595; Strand, 1738; Turner, 1807, 1809, 1810; Waterston, 1871, 1872.

Lepidoptera.

Aurivillius, 999; Bedford, 151; Clark, 376; Gaede, 721; Hampson, 803, 804; Holland, 897; Janse, 953; Jordan, 981, 983, 985; Le Cerf, 1099; Meyrick, 1238, 1239; Prout, 1460; Prout, *Pingasa*, 1462; Rebel, 1490; Rebel & Zerny, 1495; Riley, 1531.

Trichoptera.

Banks, 129.

Neuroptera.

Banks, 129; Esben-Petersen, 615.

Diptera.

Alexander, 24, 25, 26, 30-34, 37, 51; Austen, 101; Becker, 146; Bezzi, 205, 206; Carter, Ingram & Macfie, 329; Dalziel, 465; Edwards, 586; Enderlein, 600, 601; Felt, 629, 631; Gérard, 743; Hendel, 862; Hermann, 876; Lichtwardt, 1129; Mansfield-Aders, 1196; Newstead, 1309; Pomeroy, 1443; Speiser, 1713; Tonnoir, 1790; Ricardo, 1520, 1521; Rodhain & Bequaert, 1543; Villeneuve, 1840, 1841.

Hemiptera.

Bergroth, 181; Brain, 259; Distant, 506; Jensen-Haarup, 962; Lallemand, 1083; Lehmann, 1106; Melichar, 1218; Muir, 1287; Newstead, 1308; Poppius, 1444; Theobald, 1776.

Elliptera.

Bedford, 152, 153.

Thysanoptera.

Karny, 996.

Paraneuroptera.

Ris, 1535.

Orthoptera.

Bruner, 290; Chopard, 372.

Aptera.

Brown, 285; Silvestri.

Madagascar and Mascarene
Islands.

Insecta, collectively.

Snell & Tams, Rodrigues, 1702.

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Coleoptera.

Achard, 8; Aurivillius, 99; Benderitter, 159; Borchmann, 243; Bourgoin, 252; Calabresi, 312; Fleutiaux, Mauritius, Réunion, 666; Hustache, 932, 936; Lameere, 1087; Marshall, Mauritius, 1205; Moser, 1270, 1271; Obenberger, 1331, 1332; Pic, 1420, 1426, 1427, 1429; Pouillaude, 1450; Seidlitz, 1651.

Lepidoptera.

Clark, 376; Hampson, 804; Jordan, 981.

Trichoptera.

Banks, 129.

Diptera.

Alexander, 26, 32, 33, 51; Austen, Seychelles & Aldabra, 100; Edwards, 587; Enderlein, 603; Silvestri, 1687; Surcouf, 1749.

Hemiptera.

Lallemand, 1081, 1083; Melichar, 1218.

Paraneuroptera.

Lacroix, 1073.

Orthoptera.

Chopard, 372.

Asia, Tropical and Eastern.

(Including Japan.)

Insecta, collectively.

†Cockerell, *Dermaptera*, *Diptera*, 388; †Fletcher, India, 657; Navás, Japan, 1296; Portevin, 1448; Rothney, India, 1556.

Coleoptera.

Achard, 2, 3, 5, 7-10, 12, 13, 14; Andrewes, 66-70; Arrow, 86, 88, 89, 92; Aurivillius, 99; Bänninger, 116; Bedel, 149; Bernhauer, Japan, 183, 185, 186, 192, 193; Bickhardt, 208, 209; Borchmann, 243; Boucomont, 248; Bourgoin, Laos, 252, 253; Calabresi, 313; Cameron, 316, 317, 318; Champion, India, 345, 346, 348; Desbordes, India, 495, 497; Fleutiaux, 663, 664; Gebien, 735, 738; Heller, 858, 859; Hustache, 932, 934, 937; Jeannel, 958; Käufel, 998; Lameere, 1087; Lesne, Yunnan, 1116; Marshall, India, 1205; Maulik, 1213; Moser,

1271; Netolitzky, 1305, 1306; Obenberger, 1329, 1332, 1334, 1338; d'Orchymont, 1355; Pic, 1421, 1422, 1424, 1426, 1427, 1429, 1431, 1432; Portevin, 1447; Rambousek, Buchara, 1476; Reitter, Japan, 1506; Roubal, Tian-Schan, 1569; Voss, 1846; Wagner, Japan, 1849; Wasmann, 1867; Zimmermann, Japan, 1931.

Hymenoptera.

Cockerell, 383, 387; Cockerell, India, 391, 400, 401; †Cockerell, 384; Dodd, 515; Elliott, Indo-china, 596; Enderlein, 604, 606; Enslin, Japan, 611; Friese, 694, 696, 700, 701; Fullaway, China, 717; Gallardo, Formosa; Girault, 753, 754; Kohl, 1036; Rohwer, India, 1545; Santschi, 1589, 1590, 1591, 1593; Turner, 1808, 1809; Waterston, Ceylon, 1871; Wilcox, Japan, 1906.

Lepidoptera.

Bell, 155; Evans, India, 618, 619; Fletcher, India, 656, 658; Grosvenor, India, 789; Hampson, 804, 805; Heinrich, Japan, 851; Jurriaanse & Lindemans, 994; Meyrick, 1237; Nakahara, 1293; Prout, 1460; Prout, Formosa, *Gelasma*, 1462; Riley, 1532; Strand, 1739; Wileman, 1908.

Trichoptera.

Banks, 129.

Neuroptera.

Banks, 129.

Diptera.

Alexander, Japan, 38; Alexander, Formosa, 41, 54; Austen, India, 102; Bezzi, 205; Brunetti, 291; Brunetti, 292; †Cockerell, 402; Edwards, 586; Enderlein, 600, 605; Felt, 632; Hendel, 862; Patton, 1396; Ricardo, 1521; Séguy, Japan, 1650; Senior-White, Ceylon, 1654; Stanton, 1718; Surcouf, 1749.

Hemiptera.

Bergroth, Formosa, 177; Distant, 505; Distant, Seistan, 511; Melichar, 1218; Royer, 1574; Takahashi, Japan, 1761, 1762.

Lipoptera.

Uchida, 1818.

Thysanoptera.

Ayyar, 112; Karny, Ceylon 996.

Psocoptera.

Banks, 129.

Plectoptera.

Banks, 129.

Paraneuroptera.

Fraser, 684, 686, 688, 690; Laidlaw, 1076, 1078.

Orthoptera.

Chopard, 369, 372, 374; Hebard, 832; Rehn & Hebard, China, 1499.

Asiatic Archipelago.

Java to New Guinea, including Philippines.

Insecta, collectively.

Schultze, 1624.

Coleoptera.

Achard, Lombok, 6, 10, 13, 14; Andrewes, 69; Arrow, 86, 92; Aurivillius, 99; Bernhauer, 184, 186, 192, 193; Bickhardt, 208; Blair, 226; Borchmann, 243; Boucomont, 248; Calabresi, 313; Champion, 348; Gebien, 736, 738; Heller, 856-859; Kleine, 1014, 1015, 1016; Lameere, Philippines, 1087; Marshall, 1202; Moser, 1267, 1269, 1271; Obenberger, 1331; Pic, 1425, 1426, 1427, 1429, 1431, 1432; Portevin, 1448, 1449; Schultze, 1625; Seidlitz, 1651; Zimmermann, New Guinea, 1931.

Hymenoptera.

Cockerell, 383, 396, 397, 398, 399, 400; Dodd, 515; Enderlein, Sumatra 606; Fullaway, 719; Gahan, 722; Girault, Philippines, 754; Kohl, 1036; Santschi, 1593.

Lepidoptera.

Clark, 376; Eecker, 593; Gaede, Java, 721; Hampson, 804; Jurriaanse & Lindemans, 992; Martin, 1208; Meyrick, 1237; Prout, 1460, 1462; Rothschild, 1557, 1558, 1560, 1561; Swinhoe, 1758; Talbot, 1763; Van den Bergh Lzn, Celebes, 1821; Wileman & South, 1909; Zerny, 1927.

Trichoptera.

Banks, 129.

Neuroptera.

Lacroix, Bornco, 1072.

Diptera.

Bezzi, 204, 205; Dyar, 572; Enderlein, 605; Felt, 630; Ricardo, 1521; Sack, 1580; Stanton, 1718; Stein, 1726, 1727; Swellengrebel & Swellengrebel de Graaf, 1753, 1754, 1755.

Hemiptera.

Bergroth, 178; Crawford, 438; Lehmann, 1107; Melichar, 1218; Morrison, 1260.

Thysanoptera.

Karny, 997.

Psocoptera.

Banks, 129.

Isoptera.

Oshima, 1363.

Plecoptera.

Banks, 129.

Ephemeroptera.

Gravely, 776.

Paraneuroptera.

Laidlaw, 1077.

Orthoptera.

Hebard, 832.

Aptera.

Handschin, 809.

Australia and Tasmania.

Coleoptera.

Arrow, 86, 90; Aurivillius, 99; Bernhauer, 195; Best, Victorian Alps, *Victor. Nat.* 37 pp. 85-90; Blair, 225; Borchmann, 243; Carter, 330, 331; Goudie, 766; Heller, 857, 859; Horn, 911; Lea, 1094-1097; Obenberger, 1330, 1331, 1338; Pic, 1426; Sharp, 1671; Sloane, 1692; Seidlitz, 1651.

Hymenoptera.

Cockerell, Tasmania, 383; Dodd, 515, 516; Emery, 599; Friese, 700; Girault, 752, 755, 756, 757, 758; Santschi, 1589, 1590, 1591; Turner & Waterston, 1811.

Lepidoptera.

Aurivillius, 98; Lower, 1138; Merrick, 1237; Turner, 1805; Swinhoe, 1758.

Neuroptera.

Banks, 129.

Diptera.

Alexander, 35, 33; Ferguson & Henry, 636; Ferguson & Hill, 637; Hardy, 811, 812, 813; Hendel, 862; Johnston & Bancroft, 979; Ricardo, 1521; Riedel, 1526; Taylor, 1766; Tonnoir, 1791.

Hemiptera.

Baker, 121; Bergroth, 180; Muir, 1284; †Tillyard, 1785.

Isoptera.

Mjöberg, 1249.

Orthoptera.

Hebard, 832; Sjöstedt, 1688.

Aptera.

Silvestri, 1685.

North America.

Insecta, collectively.

†Cockerell, 392; Dickerson & Weiss, 502; Dozier, 530; Gibson & Criddle, 746; Hewitt, 884; Notman, 1324.

Coleoptera.

Barber, 137; Bernhauer, 189; Blackman, 221; Blatchley, 229-232; Burke, 298, 299; Carr, 324; Casey, 332, 333, 334; Chamberlin, 344; Davis, 469; Dawson, 472; Fall, 624, 625; Fisher, 647; Fisher & Nicolay, 648; Frost, a day's beating, *Canad. Ent.* 52 pp. 25-29; Garrett, 732; Green, 779; Hopping, 909; Hopping, California, *Pleocomma*, *Canad. Ent.* 52 p. 217; Knull, 1033; Leng, 1108; Martin, 1206, 1207; Mason, *Cicindela nevadica*, *Ent. News* 31 p. 221; Morris, Port Hope, *Canad. Ent.* 52 pp. 73-76; Nicolay & Weiss, 1310; Notman, 1323, 1326; Pierce, 1435; Portevin, 1449; Rosewall, Louisiana in *Robinson*, *Canad. Ent.* 52 p. 203; Schwarz, 1640; Seidlitz, 1651; Wickham, 1903; †Wickham, 1905; Weiss, 1889.

Hymenoptera.

Bequaert, 173, 174; Bradley, 258; Bridwell, 278; Cockerell, 394; Cushman, 455-458; Cushman & Rohwer, 460; Fouts, 681; Girault, 754; Jackson, 951; Kinsey, 1009; Lutz & Cockerell, 1152; MacGillivray, 1173, 1174; Mann, 1194; Muesbeck, 1283; Rohwer, 1544, 1546, 1547; Smith, 1696; Stevens, 1730; Weld, 1892; Wilcox, 1906.

Lepidoptera.

Barnes & Busck, 139; Bell, 154; Blackmore, 222; Braun, 260, 261, 262; Busck, 303, 304; Clark, 376; Dyar, 561, 562, 568, 573; Flint & Malloch, 667; Gibson, 744; Heinrich, 849, 850, 852; Leussler, 1123; McDunnough, 1163, 1166; Meyrick, 1237; Mousley, 1274; Skinner, Mississippi, *Syntomidae*, Ent. News 31 p. 263; Watson, 1874; Watson & Comstock, 1875; Wright, 1922.

Trichoptera.

Banks, 129.

Neuroptera.

Banks, 129.

Diptera.

Alexander, 27, 40, 43, 48, 49, 52; Alexander & McAtee, 55; Banks, 130; Chandler, 351; Cresson, 445, 446, 447; Dietz, 504; Dyar, 552, 559, 563-567, 569, 570, 574; Garrett, 731; Hearle, 831; Hendel, 862; Hine, 891; Johnson, 971; Jones, 980; Lovett, 1136; McAtee & Banks, 1159; Malloch, 1181, 1182, 1184-1187, 1189, 1190, 1191; Melander, 1216, 1217; Schmitz, 1612; Van Duyce, 1824.

Aphaniptera.

Jordan & Rothschild, 987.

Hemiptera.

Baker, 121, 122; Baker & Moles, 123; Ball, 125; Barber, 134, 135; Crawford, 439; Davidson, 468; Davis, 470; Drake, 531, 532; Ferris, 638, 639; Knight, 1027, 1028; Lawson, 1092, 1093; McAtee, 1156, 1157; Malloch, 1183; Metcalf & Osborn, 1228; Oestlund, 1345; Osborn, 1359; Parshley, 1383-1386; Patch, 1387; Spooner, New York *Delphacinae*, Ent. News 31 pp. 44-46; Stoner, 1736; Van Duzee, 1823.

Psocoptera.

Banks, 129.

Isoptera.

Banks & Snyder, 132; Snyder, 1703.

Zoraptera.

Caudell, 338.

Plectoptera.

Banks, 129.

Paraneuroptera.

Howe, 916; Howe, Concord, Psyche 27 p. 154.

Orthoptera.

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†*Pterostichini*; extinct genus, LESNE p. 391 fig. Bull. Mus. Paris 1920.

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Thalassotrechus = (*Anatrechus* C.), CASEY p. 185 Mem. 9.

Thlibops minor p. 275, *glabriventris* p. 276, spp. n. Luzon, HELLER D.E.Z. 1916 1916.

† *Thyreopterus paroecus* sp. n. Samoa, p. 164, CSIKI Denk. Ak. Wien 91 1915.

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20.—*T. stenocephalus* sp. n. Albania p. 164; APFELBECK S.B. Ak. Wien 1 127 1918.—*T. pieltaini* sp. n. Spain p. 155, JEANNEL Bull. Soc. ent. France 1920.—*Trechus fulvus*, phylogeny and biogeography, *T. fulvus* subsp. n. *primigenius* p. 14 figs., *troglodytes* p. 15 figs., *vasconicus* p. 15 figs., *verneri* p. 18 figs., Spain, JEANNEL Trab. Mus. Ci. Nat. Madrid Zool. No. 41.—*T. (Sporades = Trechodes* Bl.) p. 144, *leai*, *pacificus*, p. 145, *robustus*, *castelnaui*, p. 146, *carteri*, *austrinus*, p. 147, *longinotatus* p. 148, *brevinotatus*, *blackburni*, p. 149, *macleayi* p. 150, spp. n. Tasmania, SLOANE P. Linn. Soc. N.S.W. 45.—*T.*, synonymy of Chilean pp. 100-104, *australis* p. 101 Chile, *patagonicus* p. 102, *aztec* Mexico p. 105, *T. (Paratrechus* subg. n. p. 106) *hoegei* Mexico, *bifoveatus* Guatemala, p. 107, *T. championi* India p. 109, *chinensis* Haining p. 110, *maori* p. 111, *hornensis* = (*wiencke* Rous.) p. 103, *chalybaeus* = (*californicus* Motsch.), *ovipennis* = (*laevigatus* Lec.), p. 105, *micans* Lec. synonymy p. 104, JEANNEL Ann. Nat. Hist. 5.

† *Trechus amplicollis praeglacialis* subsp. n. Durham, LESNE p. 388 fig. Bull. Mus. Paris 1920.

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33, *cordilleranus* p. 34, Colombia, *bolivianus* p. 35, *catamarcanus*, Argentina, p. 36, *auripennis* Bolivia, *excellens* Colombia, p. 37, *klimschi* p. 38, *riedeli* p. 39, *brasilianus* p. 40, Brazil, spp. n., BERNHAUER Col. Rundsch. 5 1916.—*P. varius* var. n. *thessalicus* p. 45, ROUBAL Col Rundsch. 5 1916.—*P. andreweesi* p. 214, *nilgiriensis* p. 215, *sericoilius*, *indicus*, p. 216, *maculatus* p. 217, spp. n. India, *geminus* var. n. *inornatus* p. 215, CAMERON Ent. Mo. Mag. 56.—*P. agilis* ab. n. *piceicornis*, *fenestratus* ab. n. *concolor*, *varians* ab. n. *piccicoxis*, p. 6, *longicornis* ab. n. *piceicornis*, GRIDELLI Atti Acc. Vens.-Trent. 11.—*P. apenninus* and *immundus* p. 50, *bimaculatus* p. 54, aedeagus, GRIDELLI Bull. Soc. ent. ital. 51 pl. i.—*P. aeneus* = (*Cafius amblyterus* and *laeus* Oll.), LEA p. 375 P. Linn. Soc. N.S.W. 45.

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Spilomicrus Westw. = (*Bothriopria* D.), *S. gracilis* D. to *Hemitea* p. 376, *tinctipennis* Cam. to *Neopria* p. 379, DODD Tr. ent. Soc. London 1919.

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European *Trichogramminae*, KRYGER Ent. Medd. 13 pp. 183-188.

In P.U.S. nat. Mus. 58 No. 2332, Girault refers to species, apparently previously described by him, but not seen by the recorder; the titles given are "Chalcid. nova marilandensis 1917"; "Descr. Chalc. cum obs. 1917"; "New Eulophidae 1917"; "two new Achrysocharellae 1917"; "new chalcid flies 1917"; some of the species are redescribed in No. 2332.

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Ablerus diana sp. n. Queensland p. 49, GIRAULT Insec. inscit. 8.

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Agaon scobiniferum sp. n. Uganda p. 133 fig., WATERSTON Tr. ent. Soc. London 1920.

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Anabrolepis gen. n. p. 431 near *Habrolepis* and including *H. zetterstedtii*, *extranea* sp. n. Oahu p. 434 figs., TIMBERLAKE P. hawai. ent. Soc. 4.

- Anagrus giraulti*, parasite of *Eutettix* p. 250, STAHL J. Agric. Res. 20.
- Anagyropsis turbulentus* sp. n. Queensland p. 48, GIRAULT Insec. inscit. 8.
- Anagyryus antoninae* sp. n. Honolulu p. 409, TIMBERLAKE T.C.
- Anaphoidea australia* sp. n. Queensland p. 97, GIRAULT T.C.
- Anastatus gibboni* sp. n. Queensland p. 44, GIRAULT T.C.
- Anthemus emersoni* sp. n. Queensland p. 98, GIRAULT T.C.
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- Aplastomorpha vandinei* Tuck = (*australiensis* Gir.), GAHAN p. 239 P. ent. Soc. Washington 22 1921.
- Apterencyrtus pulchricornis* Ashm., GIRAULT p. 185 P.U.S. nat. Mus. 58.
- Archirileya* gen. n. p. 223 near *Macrorileya, inopinata* sp. n. Europe p. 225, fig., early stages p. 226-229, SILVESTRI Boll. Lab. Portici 14.
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- Ceratoneura*; structure of antennae; *C.* = (*Ceratotetrastichodes* Gir.), GAHAN p. 242 P. ent. Soc. Washington 22 1921.—*C. miltoni* sp. n. Queensland p. 47, GIRAULT Insec. inscit. 8.
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- Ditropinotus aureoviridis* = (*flavicornus* G.), GAHAN p. 236 P. ent. Soc. Washington 22 1921.
- Ecthrobaeomyia* gen. n. *Encyrtidae, niveipes* sp. n. Queensland p. 142, GIRAULT Insec. inscit. 8.
- Elasmus albomaculatus* sp. n. Luzon p. 347, GAHAN Philipp. J. Sci. 17.
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Harmolita, spp., habits, PHILLIPS Bull. U.S. Dep. Agric. 808 27 pp. 6 pls.

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INCLUDING

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BY

J. R. NORMAN.

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As experience shows that the adoption of "Arthropoda" and "Vertebrata" as separate sections gives rise to an useless repetition of titles without any corresponding advantage, it has been decided that these two divisions may be dispensed with in future in the Zoological Record.

[EDITOR.]

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BY

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XVI. REPTILIA AND BATRACHIA

ARRANGED BY

JOAN B. PROCTER.

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W. L. SCLATER, M.A.

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ARRANGED BY

MARTIN A. C. HINTON.

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