

S. S. BUCKMAN, 1902.

EMENDATIONS

OF

AMMONITE NOMENCLATURE.

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BY
S. S. BUCKMAN.

It is now eighteen years since my "Monograph of Inferior Oolite Ammonites" was commenced; and fifteen years since the first part was published. The knowledge gained during the progress of the work has shewn how general, particularly among retrogressive series of Ammonites, is the phenomenon of Homœomorphy; and therefore that external similarity is no test of specific identity. The necessary result is a considerable revision in the specific nomenclature, partly carried out in the two Supplements published—a revision based on a close study of suture and radial lines. But there are many species not touched in these Supplements, and final publication may be unavoidably delayed. Meanwhile, I am constantly receiving for identification specimens of these species, both from this country and abroad: to them I cannot give the old names, and can only append the new at risk of misconception. Therefore, to help others as well as myself, I have deemed it advisable to publish this informal list of the proposed revisions.

The names in heavy type are new. The references are to the Plates of the Monograph—the Roman numerals indicating the plate number; the Arabic, the figures in the plate. **T** indicates the type of genus.

HILDOCERATIDÆ.

- Brasilia bradfordensis—Lioc. bradfordense, iv. 5, 6.
 Br. **effricata**—Lioc. ambiguum, vii. 3, 4.
 Br. **pinguis**—Lioc. concavum, var. pingue, xii. 1—3.
 Br. **pulchra**—Lioc. concavum, x. 3, 4.
 Br. **sublineata**—Lioc. concavum, viii. 5, 6.
Braunsia lenis—Lioc. ambiguum, vii. 5, 6.
Braunsina ? angulifera—Lud. rudis, xv. 16, 17.
Braunsina futilis—Lioc. apertum, xv. 7, 8.
Canavaria folleata—Gram. fluitans, xxx. 1, 2.
 C. **venustula**—Gram. subserrodens, xxxi. 5, 6, 10—12.
Cotteswoldia costulata (Ziet.)—G. costulatum, xxxiii. 3, 4.
 Cott. **crinita**—Gram. mactra, xxxi. 3, 4.
 Cott. *distans*—G. *distans*, xxxiii. 1, 2.
 Cott. **limatula**—G. mactra, xxx. 5, 7.
 Cott. **misera**—G. aalense, xxxi. 15, 16.
 Cott. **subcandida**—G. aalense, xxxii. 7, 8.
 Cott. **superba**—G. aalense xxxii. 1, 2.
 Darellia **laevis**—Hyperl. discites, xviii. 4, 5.
 D. *polita*—Hyperl. Walkeri, xvi. 3—6.
 D. *semicostata*—Lioc. dicipiens var. intermedium, xii. 10, 11.
Deltoceras subsectum—Hyperl. discoideum, xix. 3, 4.
Deltoidoceras subdiscoideum—H. subdiscoideum, xix. 5, 6 ;
 xx. 1, 2.
Depaoceras fallax—Lioc. fallax, xiv. 10, 11, **T**: Lud. Lucyi,
 xxi. 7—9.
Dep. *formosum*—Lioc. concavum var. formosum, x. 1, 2.
Dissoroceras tabulatum—Lud. Lucyi, xxi. 5, 6.
 Grammoceras **audax**—G. toarcense, xxviii. 4—6.
 G. **penestriatulum**—G. striatulum, xxviii. 16, 17.
 Graphoceras **decorum**—Lioc. concavum, viii. 3, 4.

- G. **flaccidum**—Lioc. concavum, viii. 7, 8.
- G. **limitatum**—L. concavum var v-scriptum, x. 7, 8; ix. 7.
- G. **stigmatosum**—L. — — — ix. 5, 6.
- G. **undulatum**—L. concavum, x. 9.
- Hildoceras **semipolitum**—H. bifrons, xxii. 30, 31.
- Hyperlioceras **deflexum**—H. discoideum, xix. 1, 2.
- H. **discitifforme**—H. discites, xvi. 12, 13.
- H. **liodiscites** —H. — xvii. 1, 2.
- Hyperl. rudidiscites—H. — xviii. 1, 2; xvii. 3, 4.
- H. **Lucyi**—Lud. **Lucyi**, xxi. 3, 4.
- H. **subleve**—H. discites, xvii. 5; xviii. 3.
- Lucya caducifera**—Lud. **Lucyi**, xxi. 10, 11, **T**.
- L. **cavata**—Lioc. concavum var. v-scriptum, ix. 1—4.
- L. **magna**—Lioc. concavum, vi.
- Ludwigia ambigua—Lioc. ambiguum, vii. 1, 2.
- Ludwigella arcitenens**—L. cornu, iv. 1, 2, **T**.
- Ludla. concava—L. concavum, ii. 6, 7. viii. 1, 2.
- Ludla. cornu—L. cornu, iv. 3, 4.
- Ludla. rudis—L. rudis, xv. 11—13.
- Ludla. **subrudis**—L. rudis, xv. 14, 15.
- Phlyseogrammoceras metallarium**—G. metallarium, xxxvi. 1, 2.
- Phl. **Orbignyi**—G. **Orbignyi**, xxvii. 3—6.
- Platygraphoceras apertum**—Lioc. apertum, x. 10, 11.
- Pl. **compactum**—L. apertum, xv. 3, 4.
- Pleydellia aalensis (Ziet.)—G. aalense, xxxii. 3.
- P. **fluens**—G. mactra, xxxi. 1, 2.
- P. leura—G. leurum, xxxiii. 8—10; 5—7.
- P. mactra (Dum.)—G. mactra, xxx. 3, 4.
- P. subcompta—G. subcomptum, xxx. 13, 14.
- Pseudogrammoceras Bingmanni** (Denckm.)—G. fall. var.
Bingmanni, xxxiv. 3—5.
- Psgm. doerntense—G. doerntense, xxix. 1—5.
- Psgm. **expeditum**—G. fall. var. Cotteswoldiæ, xxxiv. 10, 11.
- Psgm. **explicatum**—G. “toarcense-striatulum,” xxviii. 14, 15.
- Psgm. **Muelleri**—G. **Muelleri**, xxxiv. 8, 9; xxxv. 1—3.
- Psgm. **pachu**—G. Sæmanni, xxxiv. 1, 2.

- Psgm. **placidum**—G. doerntense, xxix. 8—10; xxxiii. 11, 12.
 Psgm. quadratum (Haug)—G. quadratum, xxxiv. 6, 7.
 Psgm. Cotteswoldiæ—G. fall. var. Cotteswoldiæ, xxxv. 4—7.
 Psgm. **subfallaciosum**—G. fallaciosum, xxxiii. 17, 18.
 Psgm. subquadratum—G. subquadratum, xxxvi. 3—5.
 Psgm. **thrasu**—G. Sæmanni, xxxvi. 6—8.
 Pseudographoceras **compressum**—L. concavum, xv. 5, 6.
 Pseudolioceras **gradatum**—Ps. compactile, xx. 3, 4.
 Ps. **pumilum**—Ps. compactile, xx. 5, 6.
 Ps. **replicatum**—Ps. Beyrichi, xx. 9, 10.
Reynesia coela—H. Walkeri, xvi. 10, 11.
 R. intermedia—L. decipiens. var. intermedium, xi. 2, 3, **T**.
 R. **laxa** —L. — — — xi. 6, 7.
 R. **lepida** —L. — — — xi. 4, 5.
Reynesella piodes—H. Walkeri, xvi. 7—9.
Toxolioceras Walkeri—H. Walkeri, xvi. 1, 2.
Walkeria arcuata—Gram. sp., xxxii. 11, 12.,
 W. **burtonensis**—G. aalense, xxxii. 9, 10.
 W. lotharingica? (Branco)—G. lotharingicum, xxx. 8, 9.
 W. **subglabra**—L. opalinum, xiii. 7—10.

POLYMORPHIC.

- Dumortieria **Brancoi**—D. subundulata, xlv. 8, 9.
 D. costula (Rein)—D. costula, xxxvii. 12, 13. D. sp., xxxvii. 18, 19.
 D. **exacta**—D. subundulata, xlv. 6, 7.
 D. externicostata (Branco)—D. striatulo-costata, xl. 1, 2.
 D. **declinans**—D. striatulo-costata, xl. 10—12.
 D. **latescens**—D. subundulata, xliii. 8—10.
 D. **metita**—D. radians, xlii. 11, 12.
 D. **munda**—D. subundulata, xlv. 10—12.
 D. Munieri, Haug—D. costula, xxxvii. 14, 15.
 D. **penexigua**—D. radians, xlii. 3—5.
 D. **rustica**—D. subundulata, xlv. 4, 5; 10—12.

D. **signata**—D. radians, xlii. 6, 7.

D. solaris (Zieten)—D. Levesquei, xxxvii. 6—8.

D. **subexcentrica**—D. Moorei, xxx. 19 ; xliv. 7, 8.

D. **yeovilensis**—D. stratulo-costata, xxxvii. 16, 17.

Fontannesia—Type Dum. grammoceroides (Haug).

Distinct from *Dumortieria* by the more elaborate suture-line.

Fontannesia Boweri (J. Buckman.)—

1883. Harpoceras Boweri, S. Buckm. New Spp, Amm. Proc. Dorset Club. Vol. IV., p. 145, woodcut.

Font. **carinata**—D. grammoceroides, xlvii. 13, 14.

Font. **curvata**—D. grammoceroides, xlvii. 1, 2 (Type); 3—5 ; lxxv. 6, 7.

Font. **explanata**—D. grammoceroides, xlvii. 6, 7.

Font. grammoceroides—Dum. grammoceroides, xlvi. 1, 2, **T**.

Font. **luculenta**—D. grammoceroides, xlvi. 4, 5, 8 ; xlvii. 10, 11.

Font. **tortiva**—D. grammoceroides, xlvii. 6, 7.

Catulloceras subaratum, Brasil—D. arata, xxxix. 1, 2. Catulloceras p. 280.

AMALTHEIDÆ (SONNININÆ).

Dorsetensia Lennieri, Brasil—Dorset. sp., lii. 1—3.

Named by Brasil, Céph. nouv. ; Bull. Soc. Géol. Normandie xvi. 1895.

POECILOMORPHUS.

Remove this genus from the Family Hildoceratidæ to the Family Amaltheidæ, sub-family Sonnininæ.

SONNINIA.

Sonninia sulcata (Buckm.)—Lillia sulcata, xxii. 32, 33. Corrected by Haug, Amm. Bull. Soc. Géol. France, Vol. xx. 1893.

ZURCHERIA.

To the species in this remarkable and rare genus add *Zurcheria pugnax* (Vacek). The specimen is a whorl larger than Vacek's, and shews, on this whorl, the ornament of *Haplopleuroceras sub-spinatum*, but with no trace of keel or furrow. It came from the Building Stone of Stoke Knap, Dorset.

STEPHEOCERATIDAE.

Zigzagiceras. gen. nov. Type. *Am. zigzag*, d'Orb.

A *Stepheoceratoid* series in which the umbilical, or lateral, costae are distant and end in obtuse, elongate, somewhat angulate knobs, instead of spines. Further development produces a planulate, or *Perisphinctean* style of ornament, but without the periodic constrictions of *Perisphinctes*.

On the developments of the zigzag series see *Morphology of "Steph." zigzag*; *Quart. Journ. Geol. Soc.*, vol. XLVIII., p. 447. 1892.