

MANUAL OF CONCHOLOGY:

A Systematic, Illustrated Monography of the
Recent Species of Shells.

FOUNDED BY THE LATE

GEORGE W. TRYON, Junr.,

CONTINUED UNDER THE CARE OF THE

Conchological Section Acad. Natural Sciences of Philadelphia,

BY **HY. A. PILSBRY, CONSERVATOR.**

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CONTENTS.

	PAGE
Cochlicopa lubrica m. sinistrosum—J. W. TAYLOR	33
Milax gagates new to Forfarshire—A. K. LAWSON	33
Vertigo alpestris and V. pusilla in Merioneth—C. OLDHAM	33
Patella depressa Pennant—J. R. LE B. TOMLIN	34
Acanthinula lamellata var. albida in Ireland—R. A. PHILLIPS	34
Variation of Ena obscura (with figs.)—W. E. ALKINS	35
Vitrina marcida Gould—PROF. COCKERELL	39
L. stagnalis in Midlothian—J. RITCHIE	39
On S. African Marine Mollusca with descriptions of several new species (with figs.)—J. R. LE B. TOMLIN	40
Proceedings: Dec. 6, 1922; Jan. 3, Feb. 7, Mar. 7, April 7 and May 5, 1923	53
Large C. barbara in Sussex—H. S. TOMS	56
Helix hortensis and H. nemoralis living in company—A. K. LAWSON	56
Observations on the Land Mollusca of the Coasts bordering on the Bristol Channel—J. D. DEAN	57
An attempt to pair a Dextral with a Sinistral L. pereger—L. E. ADAMS	61
Pisidium tenuilineatum and P. torquatum in Shropshire—C. OLDHAM	62
Notes on British Mollusca—A. GARDINER	63
Z. excavatus in Dumfriesshire—E. CRAPPER	64
Anodonta anatina new to Perthshire Mid.—ID.	64

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ON SOUTH AFRICAN MARINE MOLLUSCA WITH
DESCRIPTIONS OF SEVERAL NEW SPECIES.

By J. R. LE B. TOMLIN, M.A.

(Read before the Society, December 6th, 1922.)

It is now twelve years since Mr. Edgar A. Smith contributed to the Annals of the Natal Museum the last of the papers in which he collected into convenient form the latest corrections and additions to the list of S. African Marine Mollusca. I have been asked to continue his work in this connexion, and have had at my disposal some notes which he left unpublished.

It may be useful here to state once more, for future reference, that a practically complete list—sometimes known as the official list—may be compiled from the following five sources:—

- (1) Sowerby's Marine Shells of South Africa.
- (2) Appendix to (1).
- (3) "A List of Species, etc.," by E. A. Smith in Proc. Malac. Soc., V, 354-402, 1903.
- (4) "On S. African Marine Mollusca, etc.," by E. A. Smith in Ann. Natal Govt. Mus. I, 19-71, 1906.
- (5) "On S. African Marine Moll., etc.," by E. A. Smith in Ann. Natal Mus. II, 175-220, 1910.

One very important and voluminous contribution to the subject has appeared in the period of twelve years alluded to above, I mean Bartsch's Report on the Turton Collection. This contains descriptions of a very large number of new species, but gives rise to many corrections and criticisms, and will be best dealt with in a separate paper.

CEPHALOPODA.

Loligo bartramii Lesueur.

Journ. Acad. Nat. Sci., Philad., ii, p. 90, pl. vii, March, 1821.

HAB.—No locality is given by Lesueur, but Orbigny records it as taken by Dussumier at the Cape (Sagra's Hist. Cuba, Moll., i, p. 62).

Sepia zanzibarica Pfeffer.

Abh. Naturw. Verein Hamburg, viii, Heft 2, no. 6, p. 9, f. 11, 11a, 1884; Smith, Pr. Malac. Soc., Lond., xii, p. 21.

HAB.—Tongaat (Burnup); Isipingo (Alexander).

S. acuminata Smith.

Pr. Malac. Soc., Lond., vii, p. 21, pl. ii, f. 3, 4, March 20, 1916.

HAB.—Port Elizabeth (Ponsonby and Spencer); Tongaat (Burnup).

S. papillata Quoy & Gaimard.

Voy. Astrolabe, Zool., ii, p. 61, pl. i, f. 6-14, 1832.

HAB.—Cape of Good Hope (Q. and G.); Port Elizabeth (Ponsonby and Spencer); Tongaat (Burnup).

S. incerta Smith.

S. burnupi Hoyle (partim).

Pr. Malac. Soc., Lond., xii, p. 23, pl. ii, f. 6, March 20, 1916.

HAB.—Tongaat (Burnup); Port Elizabeth (Spencer).

S. confusa Smith.

S. burnupi Hoyle (partim).

L.c. p. 24, pl. ii, f. 7, 8, March 20, 1916.

HAB.—Tongaat (Burnup); Port Elizabeth (Spencer).

S. australis Quoy and Gaimard.

Voy. Astrolabe, Zool., ii, p. 70, pl. v, f. 3-7, 1832; Smith, L.c., pl. ii, f. 9.

S. capensis Orbigny, Hist. Nat. Céph. Acétab., i, p. 278, pl. vii, f. 1-3, pl. xii, f. 7-11, pl. xvii, f. 18-19, 1848.

S. sinope Gray, Cat. Cephal. p. 106, 1849.

HAB.—Agulhas Bank (Q. and G.); Port Elizabeth (Burnup).

Orbigny erroneously claimed that his name *capensis* dated from 1826. Gray proposed the name *sinope* under the idea that *S. australis* Orb. (1848) antedated *australis* Q. & G.

S. insignis Smith.

L.c. p. 25, pl. ii, f. 10, March 20, 1916.

HAB.—Tongaat (Burnup).

GASTROPODA.

Limacina inflata (Orbigny).

Atlanta inflata Orb., Voy. Amér. Mérid. V, pt. 3, p. 174, pl. xii, f. 16-19, 1836.

HAB.—Off the Cape Province (Burnup); off Cape Town, stations 91, 117, 118 (Meisenheimer).

L. bulimoides (Orbigny).

Atlanta bulimoides Orb., L.c. p. 179, pl. xii, f. 36-38, 1836.

HAB.—Off the Cape Province in numbers (Burnup).

L. helicina (Phipps).

Clio helicina Phipps, Voy. towards N. Pole, p. 195, 1774.

HAB.—Off Cape Town, station 91; S. of Agulhas Bank, station 112 (Meisenheimer).

L. helicoides Jeffreys.

Ann. Mag. N.H., ser. 4, xix, p. 338, April, 1877.

HAB.—S. of Cape Town, station 117 (Meisenheimer).

Præclis moluccensis Tesch.

Siboga-Exp. monogr. 52, p. 16, pl. i, f. 7-10, April, 1904.

HAB.—S. of Cape Town, station 117 (Meisenheimer).

Clio andreæ (Boas).

Cleodora andreæ Boas, K. Dansk. Vidensk. Selsk. Skr. ser. 6, iv, p. 80, pl. i, f. 1, pl. ii, f. 12, pl. iv, f. 49, pl. v, f. 92, 1886 (Spolia Atlantica).

HAB.—W. of Cape Town, station 91 (Meisenheimer).

C. pyramidata Linné.

Syst. Nat., ed. xii. p. 1094, 1767.

HAB.—W. of Cape Town, stations 90, 91; S. of Cape Town, station 117; S. of Agulhas Bank, station 112 (Meisenheimer).

C. cuspidata (Bosc).

Hyalæa cuspidata Bosc, Hist. Nat. Coq. ii, p. 241, pl. ix, f. 5-7, 1802.

HAB.—W. of Cape Town, station 90; S. of Cape Town, station 117.

C. capensis Rang.

Ann. Sci. Nat., v, p. 286, pl. vii, f. 3, 4, July, 1825.

HAB.—Agulhas Bank.

Cavolinia gibbosa (Orbigny).

Hyalæa gibbosa Orb., l.c. p. 95, pl. v, f. 16-20, 1836.

HAB.—Scottburgh (Burnup); off Cape Town, stations 91, 115, 117 (Meisenheimer).

C. angulata (Souleyet).

Hyalæa angulata Soul., Voy. Bonite Zool. ii, p. 152, pl. v, f. 1-6, 1852.

HAB.—Port Shepstone, Kelso Junction and Scottburgh (Burnup).

C. inflexa (Lesueur).

Hyalæa inflexa Lesueur, Nouv. Bull. Sci. Soc. Philom., iii, p. 285, pl. v, f. 4, 1813.

HAB.—Off Cape Town, stations 91, 112 (Meisenheimer); Natal, Kelso Junction, Port Shepstone (Burnup); Isipingo (Alexander).

C. uncinata (Orbigny).

Hyalæa uncinata Orb., l.c. p. 93, pl. v, f. 11-15, 1836.

HAB.—Port Shepstone (McClelland).

Cymbulia sibogæ Tesch.

Siboga-Exp. monogr. 52, p. 54, pl. iii, f. 88-90, April, 1904.

HAB.—Port Elizabeth, station 102 (Meisenheimer).

Gleba cordata Forskål.

Icones Rer. Nat., pl. xliii, f. D, 1776.

HAB.—Off Cape Town, station 91 (Meisenheimer).

Desmopterus papilio Chun.

Sitzber. preuss. Akad. Wiss. Berlin, 1889, p. 540, pl. iii, f. 11-14.

HAB.—Off Cape Town, stations 90, 91, 117; Port Elizabeth, station 102 (Meisenheimer).

Spongiobranchæa australis (Orbigny).

Hyalæa australis Orb., l.c. p. 117, pl. viii, f. 9-11, 1836.

HAB.—Agulhas Bank, station 3; off Cape Town, station 112 (Meisenheimer).

According to Hedley in Austral. Antarctic Exp., vol. iv, pt. i, p. 64, this name is a synonym of the earlier *Cliditia caduceus* Q. & G.

Clione limacina (Phipps).

Clione limacina Phipps, Voy. towards N. Pole, p. 194, 1774.

HAB.—Agulhas Bank, station 3 (Meisenheimer).

Cylichnella bistrata Tomlin.

Journ. Conch., xvi, p. 87, f. 1, January, 1920.

HAB.—Port Alfred (Turton).

Cylindrobulla pusilla G. & H. Nevill.

Cylindrobulla pusilla G. & H. Nevill, J. Asiatic Soc., Bengal, vol. xxxviii, pt. ii, no. 2, p. 68, pl. xiii, f. 2-2c (1869); Pilsbry, Man. Conch., vol. xv, p. 382, pl. xlii, f. 24-26.

HAB.—Port Shepstone, Natal (Burnup); Ceylon (Nevill).

This may be the species quoted by Sowerby¹ as *Cylindrobulla fragilis* Jeffreys,² originally described from off Spezia in Italy. That form, however, appears to be narrower and more truncate anteriorly. *C. pusilla* is smaller and more slender than *C. sculpta* of G. & H. Nevill, which also occurs on the Natal coast.

Parviterebra separanda sp. nov.

Terebra (Mazatlan) thyræa Smith (non Melvill), Pr. Malac. Soc., Lond., v, p. 361.

This species was identified by Smith with *thyræa* Melv. from Karachi and the Mekran Coast, for which see Mem. and Proc. Manchester Lit. and Phil. Soc., xli, pt. 3, no. 7, p. 10, pl. vi, f. 13, 1897. There is an undeniable likeness, but the Cape shell, for which we now propose the name *separanda*, can readily be separated by the following points: its whorls are much flatter and not shouldered as are those of *thyræa*; the incised spiral lines are further apart except on the upper third of each whorl, where they suddenly become much more numerous and closer together; the longitudinal ribs are absolutely straight and parallel to the axis.

Length 8.5 mm.; diam. max. 3 mm.

HAB.—Durban and Port Shepstone (Burnup).

TYPE.—In British Museum.

Conus beckeri Sowerby.

Pr. Malac. Soc. Lond., ix, p. 352, text-figures, 9 September, 1911.

HAB.—St. Francis Bay (Becker).

Mangilia shepstoneensis Smith.

Ann. Natal Mus., iii, pt. 1, p. 1, pl. i, f. 1, 25 September, 1914.

HAB.—Port Shepstone.

Marginella pachista Tomlin.

Journ. Conch., xiv, p. 101, text-figures, 1 October, 1913.

¹ Marine Shells S. Africa, p. 53.

² Ann. Mag. Nat. Hist., vol. xvii, p. 188, pl. ii, f. 16-17 (1856) as *Cylichna fragilis*.