

ADVERTISEMENT.

Royal octavo.

Price 2/6 net.

OBSERVATIONS ON THE FILARIAL EMBRYOS  
FOUND IN THE GENERAL CIRCULATION  
OF THE EQUIDÆ AND BOVIDÆ,  
AND  
THEIR PROBABLE PATHOLOGICAL SIGNIFICANCE.

FASCICULUS I,

# BURSATI.

[Twelve Plates, Nine Text Illustrations, and Six Charts]

BY

ALFRED LINGARD, M.B., M.S., D.P.H.,

MEMBER OF THE ROYAL COLLEGE OF SURGEONS OF ENGLAND, AND  
FELLOW OF THE BOMBAY UNIVERSITY;  
IMPERIAL BACTERIOLOGIST TO THE GOVERNMENT OF INDIA.

LONDON:

ADLARD & SON, BARTHOLOMEW CLOSE.

# ANNALS

OF THE

# NATAL GOVERNMENT MUSEUM

EDITED BY

ERNEST WARREN, D.Sc.(LOND.), DIRECTOR.

*J. B. 24. 250.*



R

PRINTED BY ORDER OF THE TRUSTEES.

LONDON:

ADLARD & SON, BARTHOLOMEW CLOSE.

1908.

On South African Marine Mollusca, with  
Descriptions of New Species.

By

Edgar A. Smith, I.S.O., F.Z.S.

Plates VII, VIII.

IN the 'Proc. Malac. Soc.,' 1903, vol. v, pp. 354-402, I gave a list of species from South Africa not recorded in Mr. Sowerby's work entitled 'Marine Shells of South Africa.' In the present paper I propose to bring the catalogue of known species up to date, and also to make corrections of a few errors which, unfortunately, occur in the list referred to, and to supply some omissions. These errors and omissions have mostly been very kindly pointed out to me by my friend Mr. H. C. Burnup.

I now also quote in full, giving references, the species mentioned and described by Mr. Sowerby in the 'Marine Investigation in South Africa,' vol. ii, pp. 213-232, which were merely listed in the above-mentioned paper.

By consulting, therefore, the present paper, that in the 'Proc. Malac. Soc.,' and Mr. Sowerby's work, a complete list of the known South African species can be extracted.

Those not in Mr. Sowerby's book or my former paper are marked with an asterisk in the following pages.

The principal papers dealing with the South African fauna published since 1903 are the following:

(1) "Mollusca of South Africa. Pelecypoda." In 'Marine

Investigations in South Africa,' vol. iv, pp. 1-19, Pls. VI, VII. By G. B. Sowerby.

(2) "On a Collection of Marine Shells from Port Alfred, Cape Colony." In the 'Journal of Malacology,' vol. xi, pp. 21-44, Pls. II, III. By Edgar A. Smith.

(3) "Die beschaltten Gastropoden der deutschen Tiefsee-Expedition, 1898-1899," in Chun's 'Wissenschaftliche Ergebnisse der deutschen Tiefsee-Expedition auf dem Dampfer, "Valdivia," 1898-1899, vol. vii, pp. 26-60, Pls. II-V. By E. von Martens.

#### Cephalopoda.

##### \* *Sepia burnupi* Hoyle.

*Sepia burnupi* Hoyle, 'J. of Conch.,' vol. xi, p. 27, Pl. I.  
Hab.—Umkonaas, Natal, and Port Elizabeth, Cape Colony.

#### Gastropoda.

##### \* *Oncidium peronii* Cuvier.

*Oncidium peronii* Cuvier: Krauss, 'Südafrik. Moll.,' p. 72.  
Hab.—Natal coast (Krauss).

##### \* *Oncidium burnupi* Collinge.

*Oncidium burnupi* Collinge, 'J. of Malac.,' vol. ix, p. 17, figs. 1, 2.  
Hab.—Umlaas Lagoon, Natal.

##### \* *Ampullarina africana* Smith.

*Ampullarina africana* Smith, 'J. of Malac.,' vol. xi, p. 38, Pl. III, fig. 14.  
Hab.—Port Alfred, Cape Colony.

##### *Retusa truncatula* (Bruguière).

*Retusa truncatula* (Bruguière): Smith, 'J. of Malac.,' vol. xi, p. 38.

Hab.—Port Alfred, Cape Colony.

##### *Scaphander punctostriatus* Mighels.

*Scaphander punctostriatus* Mighels: Pilsbry, 'Man. Conch.,' vol. xv, p. 246, Pl. XXXI, fig. 16; Sowerby, 'Marine Invest.,' vol. ii, p. 233.

Hab.—Off Cape Colony, 154 and 166 fathoms.

##### \* *Dolabella scapula* (Martyn).

*Dolabella scapula* Martyn: Pilsbry, 'Man. Conch.,' vol. xvi, p. 152, Pl. XXVI, figs. 26-28, Pl. XXVII, figs. 29, 30.  
Hab.—Natal.

Martyn's scapula has priority over *D. rumphii*, under which name this species has been quoted by Krauss and Sowerby.

##### \* *Terebra suspensa* Smith.

*Terebra suspensa* Smith, 'J. of Malac.,' vol. xi, p. 30, Pl. II, fig. 12.

Hab.—Port Alfred, Cape Colony.

##### \* *Conus geographus* Linn.

*Conus geographus* Linn.: Reeve, 'Conch. Icon.,' vol. i, fig. 130.

Hab.—Bluff, Durban (G. W. Westcott).

##### \* *Conus punctatus* Gmelin.

*Conus punctatus* Gmelin, 'Syst. Nat.,' p. 3389.

*Conus augur*, Hwass: Reeve, 'Conch. Icon.,' vol. i, fig. 7; Kiener, 'Coq. viv.,' Pl. XVIII, fig. 3.

Hab.—Durban (Burnup), Ceylon, etc.

*Conus punctatus* of Hwass, also occurring in Natal, is

*Fasciolaria rutila* Watson.

*Fasciolaria rutila* Watson: Sowerby, 'Marine Invest.' vol. ii, p. 222, Pl. III, fig. 2.

Hab.—Off Natal, 40 and 154 fathoms.

A young shell and the radula are figured by Sowerby.

\* *Latirus burnupi* n. sp. Pl. VII, fig. 7.

Testa breviter fusiformis, albida, periostraco fusciscente tenui induta; spira acuminato-conica; anfractus 8-9, supra declives et leviter concavi, dein convexi, costis 8 fortibus rotundatis supra attenuatis instructi, liris tenuibus spiralibus, confertis, infra suturam plus minus granulatis, ornati, ultimus antice attenuatus, breviter caudatus, costis infra medium sensim evanidis, lira unica paulo infra peripheriam cæteris magis conspicua; apertura roseo-purpurea, intus tenuiter lirata, cum canali longit. totius  $\frac{1}{2}$  adæquans; labrum pallidum, subexpansum, antice fere patulum; canalis parum obliquus; columella callo roseo-purpureo induta, in medio plicis tribus tenuibus instructa, tuberculo parvo unico superne munita.

Longit. 28 mm., diam. 11.5; apertura cum canali 14 longa, 5 lata.

Hab.—Port Shepstone (Burnup).

Somewhat resembling *L. flavidus* A. Adams and *L. mariae* Crosse, but apparently distinct. The termination of the more conspicuous lira upon the body-whorl is near the columellar tubercle at one end and is indicated at the other by a faint denticle upon the lower edge of the outer lip. All four specimens examined are rather worn at the apex and upon the anterior rostrum. It looks as if the periostracum is soon lost at these parts.

*Cominella lagenaria* (Lamarck).

Under this species Mr. Sowerby ('Marine Shells S. A.,' p. 10), has placed *Purpura dubia* Krauss as a variety. This is incorrect, as Krauss's species certainly belongs to

*Purpura*, and is the same as the *P. cataracta* of Reeve. The *Buccinum cataracta* of Chemnitz has never been satisfactorily identified.

*Tritonidea carinifera* (Küster).

*Tritonidea carinifera* (Küster), Smith, 'Proc. Malac. Soc.' vol. v, p. 371 (1903).

*Tritonidea natalensis* Smith: Sowerby, 'Marine Invest.' vol. ii, p. 229 (1903).

Küster's name *carinifera* has many years' priority over *natalensis* of Smith.

\* *Euthria pura* Martens.

*Euthria pura* Martens, 'Tiefsee-Exped.' p. 25, Pl. II, fig. 14.

Hab.—Agulhas Current, 273 fath.

*Engina mendicaria* (Lamarck).

This species, placed by Mr. Sowerby ('Marine Shells S. A.,' p. 22) in the genus *Columbella*, should be removed to *Engina*. It has been known for many years that its radula is Buccinoid and very different from that of the *Columbellidæ*.

\* *Phos roseatus* Hinds.

*Phos roseatus* Hinds: Sowerby, 'Thes. Conch.' vol. iii, Pl. CCXXI, figs. 1-3.

Hab.—Durban (Burnup), Philippines, Moluccas, etc.

*Sylvanocochlis ancilla* (Hanley).

*Pseudoliva ancilla* Hanley: Sowerby, 'Marine Invest.' vol. ii, p. 228.

*Sylvanocochlis ancilla*: Melvill, 'J. of Conch.' vol. x, p. 325, fig.; Smith, 'J. of Malac.' vol. xi, p. 23.

Hab.—Off South Africa, 40 fathoms (Sowerby); Port Alfred (Smith).