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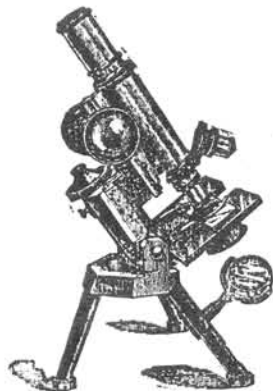
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## THE JOURNAL OF MALACOLOGY.

No. 2.

JULY 11TH, 1904.

VOL. XI.

### ON A COLLECTION OF MARINE SHELLS FROM PORT ALFRED, CAPE COLONY.

BY EDGAR A. SMITH, I.S.O.,

British Museum (Natural History) London.

(Plates ii, iii.)

IN the early part of last year the British Museum received from Lieut.-Col. W. H. Turton, R.E., a large series of shells collected by him at Port Alfred, Cape Colony. The collection is of interest, as it contains a considerable number of new forms and also a few others which are new to the known fauna of South Africa. It also shows how rich in species this particular locality evidently is. It has been thought useful and interesting to give a list of the species as all were obtained at one place and within the short period of two or three months. Besides the species enumerated, there are numerous specimens which, being beach-rolled, (the whole collection having been obtained on the shore), are beyond recognition. Others are too young to be dealt with and a few belong to families, *Vermetidae*, *Ostracidae*, etc., which are extremely difficult to determine. Probably altogether about fifty species are comprised in this unnamed material which are not included in the following list, and Colonel Turton writes that he has upon a second visit to Port Alfred found a considerable number of species which were not in his first collection. It is not therefore improbable that some four hundred and fifty species will eventually be recorded from this one locality.

All the species about to be enumerated, excepting those new to the fauna,<sup>(1)</sup> are quoted and references given, either in Sowerby's "Marine Shells of South Africa," or in my paper in the Proc. Malacol. Soc., vol. v, pp. 354—402.

1. Marked in the list with an asterisk.  
JOURN. OF MALAC., 1904, vol. xi, No. 2.

## A. LIST OF SPECIES.

- Spirula peroni, Lamk.  
 Melampus acinoides, Morelet.  
 Gadinia costata, Krauss.  
 \*Ampullarina africana, n.sp.  
 Siphonaria concinna, Sowb.  
 Siphonaria capensis, Q. & G. var.  
 Siphonaria aspera, Krauss.  
 Bulla ampulla, Linn.  
 Hydatina physis, Linn.  
 Haminea natalensis, Krauss.  
 Cylichna cylindracea, Pennant.  
 Tornatina voluta, Q. & G.  
 Actaeon albus, Sowb.  
 Retusa truncatula, Brug.  
Terebra capensis, Smith.  
 \*Terebra suspensa, n.sp.  
 Conus infrenatus, Reeve.  
 Conus pictus, Reeve.  
 Conus bairstowi, Sowb.  
 Conus tinianus, Hwass.  
 Clionella kraussi, Smith.  
 Clionella bipartita, Smith.  
 Clionella subventricosa, Smith.  
 Clionella rosaria, Reeve.  
 Clionella sinuata, Born. var.  
 Clionella (?) platystoma, Smith.  
 Clavatulula gravis, Hinds.  
 Pleurotoma fultoni, Sowb.  
 Drillia rousi, Sowb.  
 Drillia caffra, Smith.  
 Drillia layardi, Sowb.  
 Drillia diversa, Smith.  
 Drillia bairstowi, Sowb.  
 Drillia hottentota, Smith.  
 \*Drillia albonodulosa, n.sp.  
 \*Drillia thetis, n.sp.  
 \*Drillia nivosa, n.sp.  
 \*Drillia subcontracta, n.sp.  
 \*Drillia praetermissa, n.sp.  
 Clathurella capensis, Smith.  
 Clathurella ponsonbyi, Sowb.  
 Clathurella grayi, Reeve.  
 \*Clathurella crassilirata, n.sp.  
 Clathurella verucosa, Sowb.  
 Mangilia septangularis, Mont.  
 Mangilia amplexa, Gld.  
 \*Mangilia alfredi, n.sp.  
 Daphnella (?) sulcata, Sowb.  
 Daphnella capensis, Sowb.  
 (= Columbella capensis.)  
 \*Glyphostoma siren, n.sp.  
 Mitromorpha volva, Sowb.  
 Alciria elegans, H. Ad.  
 Columbella lightfooti, Smith.  
 Columbella pyramidalis, Sowb.  
 Columbella algoensis, Sowb.  
 Columbella albuginosa, Rve.  
 Columbella cercalis, Menke.  
 \*Columbella adjacens, n.sp.  
 Cancellaria semidisjuncta, Sowb.  
 Cancellaria foveolata, Sowb.  
 Ancilla obtusa, Swainson.  
 \*Ancilla reevei, n.sp.  
 Ancilla obesa, Sowb.  
 Ancilla fasciata, Rve.  
 Ancilla albozonata, n.sp.  
 (= A. cinnamomea, Sowb. non Lamk.)  
 Ancilla marmorata, Rve.  
 Marginella ornata, Redfield.  
 Marginella mosaica, Sowb.  
 Marginella piperita, Hinds.  
 Marginella bairstowi, Sowb.  
 Marginella albocincta, Sowb.  
 Marginella punctilineata, Smith, var.  
 Marginella neglecta, Sowb.  
 Marginella zonata, Kiener.  
 Marginella keenii, Marratt.  
 \*Marginella pura, n.sp.  
 Marginella pellicula, Marratt?  
 Marginella burnupi, Sowb.  
 \*Marginella differens, n.sp.  
 Marginella cylindrica, Sowb.  
 Marginella algoensis, Smith.  
 Marginella fallax, Smith.

- \*Marginella corusca, Reeve.  
 \*Marginella dulcis, n.sp.  
 \*Marginella munda, n.sp.  
 \*Marginella pseutes, n.sp.  
 Voluta africana, Rve.  
 Mitra picta, Rve.  
 Mitra latruncularia, Rve.  
 Mitra patula, Rve.  
 Mitra merula, Sowb.  
 Mitra capensis, Dkr.  
 Mitra canaliculata, Sowb.  
 Mitra euzonata, Sowb.  
 Mitra bathyrrophe, Sowb.  
 Mitra kowiensis, Sowb.  
 Fasciolaria heyneimanni, Dkr.  
 Latirus rousi, Sowb.  
 Latirus bairstowi, Sowb.  
 Fusus ocelliferus, Bory, var. robustior,  
 Sowb.  
 \*Fusus cingulatus, n.sp.  
 Melapium lineatum, Lamk.  
 Cominella lagenaria, Lamk.  
 Cominella tigrina, Kiener.  
 Cominella porcata, Gmelin.  
 Cominella elongata, Dkr.  
 Cominella unifasciata, Sowb.  
 Cominella puncturata, Sowb.  
 Cominella capensis, Dkr.  
 Cominella angusta, Sowb.  
 Tritonidea insculpta, Sowb.  
 Euthria fuscotincta, Sowb.  
 Sylvanocochlea ancilla, Hanley.  
 Eburna papillaris, Sowb.  
 Nassa crawfordi, Sowb.  
 Nassa pulchella, A. Ad.  
 Nassa poecilosticta, n.sp.  
 (= N. coccinea (A. Ad.), Sowb.)  
 Nassa pyramidalis, A. Ad.  
 Nassa speciosa, A. Ad.  
 Nassa serotina, A. Ad. var.  
 Nassa kraussiana, Dkr.  
 Nassa (Demoulia) abbreviata, Gmel.  
 Nassa retusa, Lamk.  
 Bullia callosa, Wood.  
 \*Bullia trifasciata, n.sp.  
 Bullia laevissima, Gmel.  
 Bullia tenuis, Rve.  
 Bullia annulata, Lamk.  
 Bullia rhodostoma, Gray.  
 Bullia semiusta, Rve.  
 Bullia diluta, Krauss.  
 Bullia pura, Melvill.  
 Murex uncinarius, Lamk.  
 Murex scrobiculatus, Dkr.  
 Murex babingtoni, Sowb.  
 Murex kieneri, Rve.  
 Murex crawfordi, Sowb.  
 Trophon insignis, Sowb.  
 Purpura capensis, Petit.  
 \*Purpura texturata, n.sp.  
 Purpura squamosa, Lamk.  
 Purpura cataracta, Chemn.  
 Purpura castanea, Küster.  
 (Syn. Cominella unifasciata, Sowb.)  
 Latiaxis rosaceus, Smith.  
 Coralliophila rubrococcinea, Melv.  
 & Standen.  
 Lotorium sauliae, Rve.  
 Lotorium africanum, A. Ad.  
 Lotorium leucostoma, Lamk. var.  
 Lotorium doliarium, Lamk.  
 Lotorium klenei, Sowb.  
 Lotorium olearium, Desh.  
 Lotorium argus, Lamk.  
 Ranella granifera, Lamk.  
 Ranella anceps, Lamk.  
 Cassis achatina, Lamk.  
 Dolium dunkeri, Hanley.  
 Radius aurantia, Sowb. ?  
 Cypraea citrina, Gray. var.  
 Cypraea edentula, Sowb.  
 Cypraea minoridens, Melvill.  
 Cypraeovula capensis, Gray.  
 Trivia oniscus, Lamk.  
 Trivia vesicularis, Gaskoin.  
 Trivia formosa, Gaskoin.  
 Trivia oryza, Lamk.  
 Cerithium pingue, A. Ad.

**Fusus cingulatus**, n. sp.

Pl. ii, fig. 11.

Testa breviter fusiformis, rimata, aurantia, ad angulum anfractuum albo cincta; anfractus 6, duo superiores globosi, laeves, caeteri supra oblique declives, in medio angulati et serie nodulorum instructi, tenuiter spiraliter lirati; ultimus lira conspicua paulo infra medium cinctus, antice in rostrum brevem productus; apertura supra irregulariter ovata, antice in canalem obliquum brevem producta; labrum simplex, tenue; columella arcuata, laevis, callo tenui albo induta.

Longit. 28 millim., diam. 14; apertura cum canali 14 millim. longa, 5.5 lata.

Recognisable by its style of colouration and the infraperipheral conspicuous lira. The nodules at the angle of the whorls gradually increase in size with the growth of the shell. There are about nine on the body-whorl.

**Terebra suspensa**, n. sp.

Pl. ii, fig. 12.

*Terebra pertusa*, Sowerby (nec Born): Marine Shells S. Afr., p. 24.

Testa parva, elongata, alba, pallide fusco maculata, ad apicem fuscens; anfractus 12, duo superiores (protoconcha) laeves, dilute fusci, rotundati, mammaeformes, caeteri lente accrescentes, leviter convexi, paulo infra suturam subconstricti, costis longitudinalibus numerosis tenuibus arcuatis instructi, inter costas spiraliter punctati, ultimus ad peripheriam rotundatus, circa basim zona fusca cinctus; apertura parva; columella alba, brevis, rectiuscula, antice obliqua; canalis brevissimus, obliquus.

Longit. 20 millim., diam. 4.5; apertura 4 millim. longa, 2 lata.

Hab.—Port Elizabeth (Sowb.).

This species differs from *T. pertusa* of Born in its much smaller size, finer and more numerous spiral series of punctures, rather shorter whorls, and in colour. The dark infrasutural band, so characteristic of *T. pertusa*, is wanting in the present species. The upper part of the whorls in Born's species is smooth between the riblets and is marked off by a conspicuous row of punctures, whereas in *T. suspensa* it is punctate between the costae, and less clearly defined.

**Columbella (?) pyramidalis**, Sowerby.

*Columbella (Mitrella) pyramidalis*, Journ. Conchol., Vol. vii, p. 370; Marine Shells S. Afr. Append., p. 10, pl. vi, fig. 4.

Hab.—Port Elizabeth (Sowb.).

Variable in colouration, sometimes being white, streaked with brown at intervals, and generally with an interrupted narrow opaque white line at the periphery, sometimes bordered above with a brown line which ascends the spire above the sutural line. Some specimens are pale brown, streaked or mottled with white, and dotted with brown at the pale periphery and upon the slight infrasutural margination. The lower part of the body-whorl in some of these specimens is whitish. The species has a *Terebra*-like appearance.

**Mitromorpha volva**, Sowerby, var.

Pl. ii, fig. 13.

Testa ovato-fusiformis, supra pallide fuscens, infra albida, circa medium anfract. ultimi fusco notata vel zonata; spira conica, ad apicem mamillata; anfractus 6, superiores duo laeves, rotundati, caeteri spiraliter lirati (liris in anfr. penult. 4, infimo caeteris majori, albo, fusco picto, in ultimo circiter 15), in interstitiis longitudinaliter tenuiter striati; apertura angusta, longit. totius  $\frac{1}{2}$  vix aequans; labrum tenue, vix incrassatum et supra inconspicue sinuatum; columella rectiuscula, laevis, in medio obsolete incisa.

Longit. 7.3 millim., diam. 3; apertura 3.5 millim. longa, 1 lata

At once recognised by its spiral sculpture and fusiformly ovate form. The whitish lira spotted with brown round the middle of the body-whorl, passes up the spire above the suture and is rather thicker than the rest. The specimens differ somewhat in colour, being of a rich brown tint, excepting the upper part of the whorls which is white with a few brown spots.

This variety differs from the type in colour and the stronger lirae. The typical form is uniformly very light brown, although described as white. It usually has five lirae on the penultimate whorl, whereas there are only four in the present variety.

**Marginella punctilineata**, Smith.

Two specimens differing somewhat from the type in colour. They are dirty whitish with slender brown lines, which are indistinctly dotted as in the normal form. The lower part of the columella is more or less stained with olive brown.

**Marginella munda**, n. sp.

Pl. ii, fig. 14.

Testa parva, fusiformis, alba, lineis angustis rosaceis subundulatis picta; anfractus 4-5 leviter convexi, sutura obliqua sejuncti; labrum mediocriter incrassatum, album, ad extremitatem posticam roseo maculatum; columella infra callo albo reflexo induta, quadriplicata.

Longit. 7 millim., diam. 3.3.

A small species characterised by its fusiform shape and style of colouration.

**Marginella pura**, n. sp.

Pl. ii, fig. 18.

Testa *M. metcalfei* similis, sed duplo major, antice minus contracta.

Longit. 6 millim., diam. 3.75.

This species quoted by Mr. Sowerby (Marine Shells S. Africa, p. 20) as the *M. metcalfei* of Angas, differs in size and shape. The Port Jackson shell is only 4 millim. in length, 2.5 in diameter, and is more contracted anteriorly. It is also not so pure white as the present species. Both have four columellar plaits. I cannot separate *M. metcalfei* and *M. ochracea*, both of Angas, and both from New South Wales.

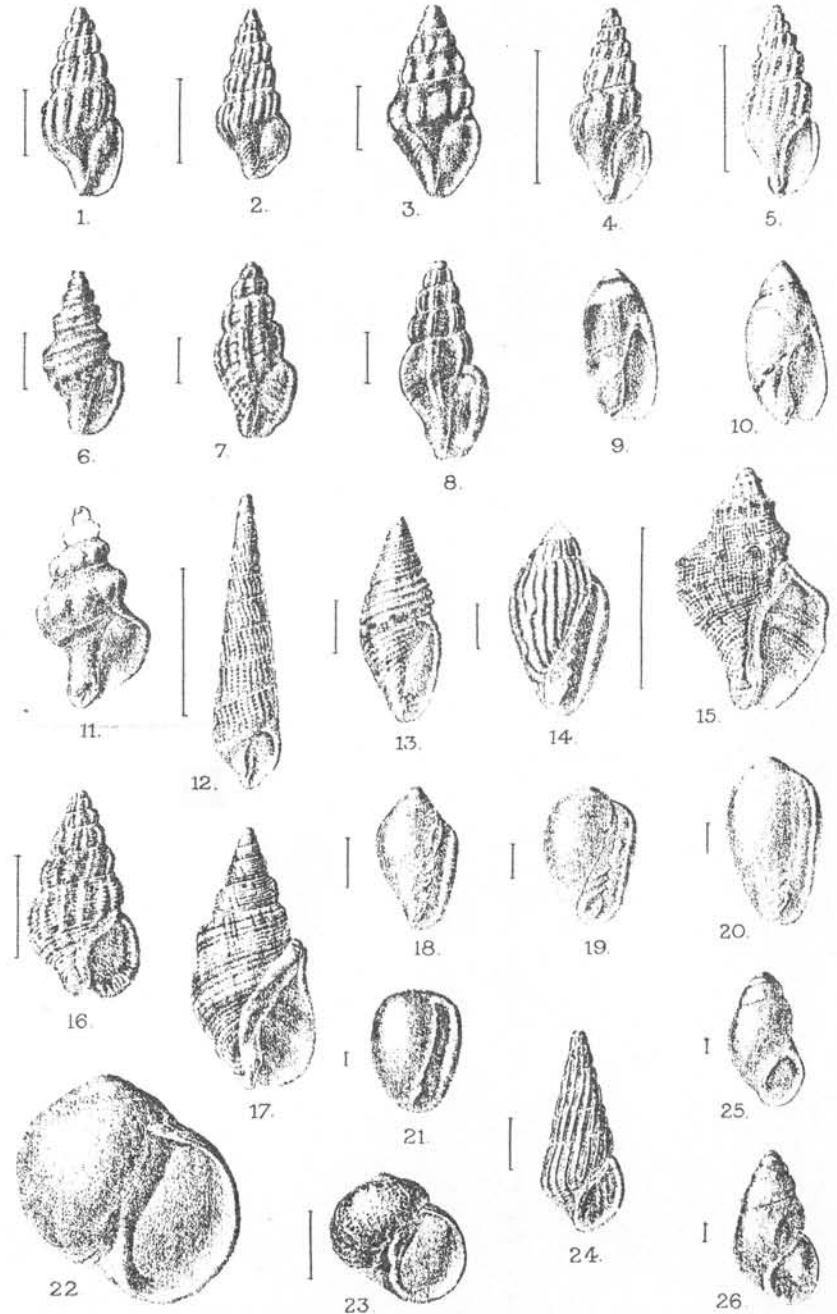
## EXPLANATION OF PLATES.

## Plate II.

- Fig. 1. *Drillia thclis*, n. sp.  
 Fig. 2. *Drillia subcontracta*, n. sp.  
 Fig. 3. *Drillia albonodulosa*, n. sp.  
 Fig. 4. *Drillia praetermissa*, n. sp.  
 Fig. 5. *Drillia nivosa*, n. sp.  
 Fig. 6. *Clathurella crassilirata*, n. sp.  
 Fig. 7. *Glyphostoma siren*, n. sp.  
 Fig. 8. *Mangilia alfredi*, n. sp.  
 Fig. 9. *Aucilla albozonata*, n. sp.  
 Fig. 10. *Aucilla recvei*, n. sp.  
 Fig. 11. *Fusus cingulatus*, n. sp.  
 Fig. 12. *Terebra suspensa*, n. sp.  
 Fig. 13. *Mitromorpha volva*, Sowb., var.  
 Fig. 14. *Marginella munda*, n. sp.  
 Fig. 15. *Purpura texturata*, n. sp.  
 Fig. 16. *Nassa poccilosticta*, n. sp.  
 Fig. 17. *Bullia trifasciata*, n. sp.  
 Fig. 18. *Marginella pura*, n. sp.  
 Fig. 19. *Marginella differens*, n. sp.  
 Fig. 20. *Marginella dulcis*, n. sp.  
 Fig. 21. *Marginella pseustes*, n. sp.  
 Fig. 22. *Natica napus*, n. sp.  
 Fig. 23. *Natica decipiens*, n. sp.  
 Fig. 24. *Rissoina alfredi*, n. sp.  
 Fig. 25. *Rissoa perspecta*, n. sp.  
 Fig. 26. *Rissoa conspecta*, n. sp.

## Plate III.

- Fig. 1. *Eulima distincta*, n. sp.  
 Fig. 2. *Eulimella nivea*, n. sp.  
 Fig. 3. *Eulimella minor*, n. sp.  
 Fig. 4. *Turbonilla gemmula*, n. sp.  
 Fig. 5. *Turbonilla decora*, n. sp.  
 Fig. 6. *Trifora fuscescens*, n. sp.  
 Fig. 7. *Trifora fuscomaculata*, n. sp.  
 Fig. 8. *Trifora fuscomaculata*, var.  
 Fig. 9. *Trifora convexa*, n. sp.  
 Figs. 10, 11. *Ethalia africana*, n. sp.  
 Figs. 12, 13. *Cynisca forticoslata*, n. sp.  
 Fig. 14. *Ampullarina africana*, n. sp.  
 Fig. 15. *Semele capensis*, n. sp.  
 Fig. 16. *Semele capensis*, sculpture [magnified].  
 Fig. 17. *Theora ovalis*, n. sp.  
 Fig. 18. *Tellina regularis*, n. sp.  
 Fig. 19. *Lucina valida*, n. sp.  
 Fig. 20. *Lepton fortidentatus*, n. sp.  
 Fig. 21. *Tellinya similis*, n. sp.  
 Fig. 22. *Cardita minima*, n. sp.  
 Fig. 23. *Carditella laticostata*, n. sp.  
 Fig. 24. *Hochstetteria velaini*, n. sp.  
 Fig. 25. *Hochstetteria limoides*, n. sp.  
 Fig. 26. *Modiola tenerrima*, n. sp.  
 Figs. 27, 28. *Limopsis pumilio*, n. sp.  
 Fig. 29. *Lima perfecta*, n. sp.



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