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MARINE SHELLS
OF
SOUTH AFRICA.

With the Author's Compliments

MARINE SHELLS OF SOUTH AFRICA.

—
BY G. B. SOWERBY, F.L.S., F.Z.S.
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[Reprinted from the Journal of Conchology].

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BY G. B. SOWERBY, F.L.S., F.Z.S.

(Read before the Conchological Society, November 3rd, 1893).

THE following species have been brought to my notice since the publication of my work with the above title in 1892.

The references are not always to original descriptions, but to figures in well-known works.

Murex ramosus Linn.—Sow., 'Thes. Conch.,' vol. iv., pl. 387, fig. 69. Natal.

Tritonidea subrubiginosa.—Smith, 'Proc. Zool. Soc.,' 1879, p. 200, pl. 20, fig. 40. Natal (Burnup).

Pleurotoma cingulifera Lamk.—Reeve, 'Conch. Icon.,' vol. i., *Pleurotoma*, fig. 1. A young shell from Knysna.

Mangilia cerea (?) Carpenter.—A small shell bearing a very close resemblance to this species has been submitted to me by Langley Kitching, Esq., from near Cape Town.

Triton gemmatus.—Reeve, 'Conch. Icon.,' vol. ii., *Triton*, pl. 15, fig. 60. Natal.

Triton tuberosus Lamk.—Reeve, 'Conch. Icon.,' vol. ii., *Triton*, pl. 1, fig. 1. Natal.

Triton gallinago.—Reeve, 'Conch. Icon.,' vol. ii., *Triton*, pl. 2, fig. 3. Natal.

Triton monilifer.—Adams & Reeve, 'Voyage, *Samarang*,' pl. 10, fig. 18. Natal.

Triton (Persona) anus Lamk.—Reeve, 'Conch. Icon.,' vol. ii., *Triton*, pl. 12, fig. 44. Natal.

Nassa algida.—Reeve, 'Conch. Icon.,' vol. viii., *Nassa*, pl. 22, fig. 145. Natal.

Bullia pustulosa Sowerby, n. sp.

Testa acuminata, solidiuscula, luteo-albida; spira acute turrata, ad apicem obtusiuscula; anfractus 6 primi (2) leviter, sequentes granulati, spiralliter sulcati, longitudinaliter plicati, sutura

anguste canaliculata divisi ; anfractus ultimus spiram paulo superans, leviter inflatus ; apertura latiuscula ; columella leviter incurva, callosa.

Long. 19, diam. maj. 9 millim.

Hab. Natal, Durban.

A very distinct species which may be at once recognized by its granular sculpture.

Oliva ispidula Linn.—Sowb., 'Thes. Conch.,' vol. iv., p. 21, pl. 343, fig. 248.

Fasciolaria trapezium Linn.—Sowb., 'Thes. Conch.,' vol. v., pl. 426, fig. 22. Natal.

Latirus abnormis Sowerby, n. sp.

Testa elongato-fusiformis, crassa, utrinque acuminata, umbilicata, castanea ; spira turrata, acuta, sutura irregularis ; anfractus 6-7, leviter convexi, nodis conspicuis rotundatis armati ; spiraliter sub-obsolete lirati ; anfractus ultimus superne leviter concavus, obtuse bi-angulatus, ad angulum superum valde nodosus, ad angulum inferum nodis lævigatis munitus, inferne leviter concavus, in cauda breviuscula desinens ; apertura oblonga ; columella rectiuscula, albo-callosa, glabra, haud plicata ; canalis latiusculus, mediocriter longus.

Long. 57, diam. maj. 23 millim.

Hab. Natal.

This species, though evidently a *Latirus*, shows no signs of the columellar folds supposed to be characteristic of that genus. In this respect, however, it does not stand alone, the same being observed with regard to *L. gibbulus* Gmel., and the species from the Cape de Verde Islands, to which I recently gave the name of *L. maximus* ('The Conchologist,' 1893, vol. ii., p. 139, pl. 1, fig. 5).

Voluta festiva Lamk.—Sowb., 'Thes. Conch.,' vol. i., pl. 52, figs. 79, 80. A young specimen of this rare species was recently found on the Natal coast by Mrs. Trotter.

Mitra literata Lamk.—Sowb., 'Thes. Conch.,' vol. iv., pl. 372, fig. 436. Natal.

Mitra limbifera Lamk.—Sowb., 'Thes. Conch.,' vol. iv., pl. 366, fig. 261. Natal.

Marginella rufula Gaskoin (MSS.).—Reeve, 'Conch. Icon,'
sp. 149. Green Point, Cape of Good Hope.

Marginella perminima Sowerby, n. sp.

*Testa minuta, oblongo-ovalis, albida, postice rotundata, antice
leviter attenuata; spira immersa; apertura angusta;
columella triplicata; labrum crassiusculum.*

Long. $1\frac{1}{2}$, *lat.* $\frac{3}{4}$ millim.

Hab. South Africa (Captain Turton).

A minute species with immersed spire, allied to *M.*
minima Guilding, but more cylindrical in form.

Columbella kitchingi Sowerby, n. sp.

*Testa breviuscula, crassa, imperforata, albida, fusco-bifasciata;
spira acutiuscula; anfractus 5, convexi, sutura anguste
canaliculata sejuncti, longitudinaliter costati, costis circ. 8,
rotundatis; anfractus ultimus leviter inflatus, infra medium
contractus; apertura auriformis; labrum arcuatum, intus
valde quadriplicatum; columella rectiuscula, laevis.*

Long. 6, *maj. diam.* 3 millim.

Hab. Green Point, Cape of Good Hope.

This species somewhat resembles *C. cerealis*, but it has
plain-brown bands in place of the zig-zag markings, and is
notably distinguished by the dentiform plicæ in the mouth.
The type-specimen was found in the above locality by
Langley Kitching, Esq., after whom I have pleasure in
naming it. There are also specimens in the British Museum.

Columbella (Mitrella) pyramidalis Sowerby, n. sp.

*Testa angusta, crassiuscula, laevis, lutea, fusco sparsim strigata;
spira elongata, acuta; anfractus 8, plani, laevis, sutura
linearis; anfractus ultimus infra medium obtuse angulatus;
apertura latiuscula, utrinque attenuata; columella incurva,
truncata; canalis brevissimus.*

Long. 11, *diam. maj.* 3 millim.

Hab. Port Elizabeth.

A smooth shell with a very long spire.

Cassis glauca Linn.—Reeve, 'Conch. Icon,' vol. v., *Cassis*,
pl. 12, fig. 33. Natal.

Pyrula ficus Linn.—Sowb., 'Thes. Conch.,' vol. iv., pl. 423,
fig. 4 (as *Ficula* f.). Natal.

Natica quekettii Sowerby, n. sp.

Testa globosa, mediocriter umbilicata, crassiuscula, undique fusco multipunctata, maculis grandibus fuscis irregulariter picta; spira brevissima, anfractus 4, levis, convexi, sutura profundiuscula sejuncti; anfractus ultimus inflatus, rotundatus; umbilicus profundus sub-circularis, saturate fusco marginatus; apertura semi-circularis; columella obliqua, vix curvata.

Long. 7, maj. diam. 8 millim.

Hab. Natal.

A small species somewhat resembling *N. imperforata*, but distinctly perforate. It differs in form from *N. forata*, and the umbilicus is smaller.

Natica sebæ.—Souleyet, 'Voyage de la Bonite,' pl. 35, figs. 6, 7; 'Thes. Conch.,' vol. v., pl. 457, fig. 79. Natal.

Natica tæniata Menke = **N. ala-papilionis** Chemn.—Sow., 'Thes. Conch.,' vol. v., pl. 457, pl. 46. Natal.

Scalaria simplex Sowerby, n. sp.

Testa elongato-pyramidata, imperforata, alba, nitida; anfractus 6, rotundati, sutura profunda sejuncti; costis leviter obliquis 9-10, æqualibus, crassiusculis, simplicibus, vix angulatis; apertura fere circularis, peristoma crassiusculo.

Long. 8, maj. diam. 4.5 millim.

Hab. Natal.

A small *Scalaria* with no prominent distinguishing characters, but seemingly different from any hitherto described.

Aclis unilineata Sowerby, n. sp.

Testa elongata, angusta, tenuis, alba; spira turrata; anfractus 8, planato-convexi, longitudinaliter minutissime densissime plicati, linea unica fusca spiraliter cincti; sutura impressa, lira angusta insecta; anfractus ultimus breviusculus vix inflatus, ad basin rotundatus, levissime productus; apertura ovata; columella tenuissima, leviter incurvata, haud plicata, peristoma simplex.

Long. 5, maj. diam. 1 $\frac{1}{4}$ millim.

Hab. Port Elizabeth.

A narrow little white shell with a brown spiral line about the middle of the whorls. From the form of the mouth and columella it appears to be an *Adis*, though in sculpture it is more like a *Turbonilla*.

Solarium perspectivum Linn.—Sowb., 'Thes. Conch.,' vol. iii., pl. 253, fig. 36. Natal. A small specimen.

Solarium (Philippia) hybridum Linn.—'Thes. Conch.,' vol. iii., pl. 253, fig. 42. St. John's (Captain Turton).

Solarium dorsuosum Hinds.—Sowb., 'Thes. Conch.,' vol. iii., pl. 254, figs. 73-74. Natal. St. John's (Captain Turton). This species is found in the Persian Gulf and in Japan.

Cerithium crassilabrum Krauss.—Sud., 'Afr. Moll.,' pl. vi., fig. 10. Natal.

Pyrazus palustris Brug.—Sowb., 'Thes. Conch.,' vol. ii., pl. 185, fig. 261. Natal.

Turbo (Pachypoma) taylorianus Smith, Proc. Zool. Soc., 1880, pl. 48, fig. 9, p. 483. Port Elizabeth.

Turbo (Collonia) pillula Dunker.—Sowb., 'Thes. Conch.,' vol. v., pl. 505, fig. 160. St. John's (Captain Turton).

Gibbula fucata Gould, 'Proc. Bost. Soc. N. H.,' p. 8, p. 20. Simon's Bay (Captain Turton). A prettily-marked rather compressed variety was found by Langley Kitching, Esq., at Green Point, near Cape Town.

Gibbula incincta Sowerby, n. sp.

Testa conica, obtusiuscula, umbilicata, aurantio-fusca, et viridescente, fasciis angustis albidis, maculis angulatis fuscis articulatis picta; anfractus 5 convexo declives, fere leves, oblique sub-obsolete sulcati, lira rotundata marginati; basis leviter convexa, oblique plicata, spiraliter subtilissime striata; umbilicus late et profunde excavatus, albus, carina obtusiuscula marginatus; apertura oblique sub-quadrata; columella tenuis, obliqua, levissime reflexa; peristoma simplex.

Alt. 6, maj. lat. 6 millim.

Hab. Port Elizabeth.

A simple conical shell with an obtusely-keeled margin. It somewhat resembles *G. capensis*, but is much more elevately conical.

Clanculus kraussi Philippi, 'Conch. Cab.,' p. 82, pl. 14, fig. 14. Natal.

Fissurella mutabilis Sowb. var. **sagillata** Reeve.—Sowb., 'Thes. Conch.,' vol. iii., pl. 239, fig. 83.

Fissurella similis Sowb., 'Thes. Conch.,' vol. iii., pl. 241, fig. 143, p. 143. Durban (Captain Turton).

Macrochisma compressa A. Adams. — Sowerby, 'Thes. Conch.,' vol. iii., pl. 244, fig. 218. Captain Turton.

Chiton lyratus Sowb., 'Conch. Illust.,' fig. 15. Port Elizabeth.

Cylindrobulla sculpta G. & H. Neville, 'Journ. Asiatic Soc.,' Pt. 2, No. 2, 1869, p. 68, pl. 13, fig. 3.

Volvatella laguncula Sowb., n. sp.

Testa ovato-cylindracea, membranacea, involuta, postice abrupte contracta, breviter producta, antice rotundata; apertura antice late ovata, postice sinuosa, angustissima, labro dextro utrinque desinente, in medio inflexo, sinistro leviter reflexo.

Long. 6, diam. $3\frac{1}{2}$ millim.

Hab. Port Elizabeth.

Unfortunately I have only the shell of this species, so that it is impossible with certainty to establish its generic position; the form of the shell, however, leaves little room for doubt that it is a true *Volvatella*. Compared with *V. cumingii* it is much smaller, less abruptly truncated and produced posteriorly, and proportionately wider anteriorly; it is also less cylindrical in form than *V. cincta* of Neville, and shows no sign of the transverse bands characteristic of that species.

PELECYPODA.

Basterotia obtusa Sowb., n. sp.

Testa æquivalvis, inæquilateralis, quadrato-subovata, leviter inflata, antice abbreviata, rotunde truncata, postice obtuse angulata, oblique producta, sordida, concentrice dense striata. Umbones approximati, leviter prominentes. Cardo in utraque valva dentem unicum valde productum, leviter excurvatum, postice lamina abbreviata crassiuscula angulato-elevata munitus. Impressiones musculares vix perspicua.

Antero-post. 12, umbono-marg. 8 millim.

Hab. Durban.

The genus *Basterotia* Mayer in Hörnes ('Die Fossilen Mollusken des Tertiär-Beckens von Wien,' vol. iv., p. 40, pl. 3, fig. 11 a-g, 1859) was founded on a fossil species *B. corbuloides* Mayer. The recent type is *Corbula quadrata* Hinds ('Proc. Zool. Soc.,' 1843), for which Recluz proposed the generic name of *Eucharis* ('Journal de Conchyliologie,' vol. i., p. 168, 1850); name pre-occupied by Latreille in 1804. The new species *Basterotia obtusa* resembles *B. corbuloides* in form, but instead of a keel from the apex to the posterior margin, it has only a very obtuse rounded angle.

Pandora dissimilis Sowb., n. sp.

Testa fere æquivalvis, inæquilateralis, oblonga compressa, postice latior, antice angustior, utrinque obtuse subangulata; extus sordida, concentrice irregulariter rugata. Margo dorsalis acutus; anticus curtus leviter declivis; posticus longus rectiusculus; lunula nulla. Margo ventralis leviter flexuosus. Valvis utrinque leviter hiantis. Umbones acuti. Cardo lira longa crassiuscula, oblique descendens, ligamentum ferente; in valva dextra dente unicus elevatus claviformis instructus. Pagina interna margaritacea inidescens; impressiones musculares duæ subcirculares.

Antero-post. 45, umbono-marg. 25 millim.

Hab. Sea Point, Cape Town.

After some hesitation I have decided to place this remarkable species in the genus *Pandora*. It differs very

much from the typical forms, and chiefly in the equality of the valves. The hinge, however, is that of a *Pandora*, although the club-shaped tooth is much more prominent than in any other species with which I am acquainted. The oblique ridge holding the ligament is similar to that of *P. claviculata* Carpenter.

Raeta pellicula Deshayes.—Reeve, 'Conch. Icon.,' *Mactra*, pl. 21, fig. 124. A single valve from Durban.

Semele cordiformis Chemnitz. — Reeve, 'Conch. Icon.,' *Amphidesma*, pl. 5, fig. 30. Natal.

Psammobia burnupi Sowb., n. sp.

Testa oblonga, æquivalvis, inæquilateralis, planulata, antice rotundata, postice truncata, ubique concentricè striata, luteo-fusco tincta, fasciis fuscis irregulariter notata, lineis fuscis minutis divergentibus veniformibus picta; umbones acuti, haud prominentes; margo dorsalis anticus longus, leviter curvatus; anticus curtus leviter declivis, obtuse angulatus; margo ventralis rectiusculus anticus rotundatus, posticus obtuse angulatus; ligamentum externum, mediocriter longum; cardo normalis; pagina interna saturate purpurea.

Antero-post. 28, umbono-marg. 14 millim.

Hab. Natal (Burnup).

Var. β—sordide lutea, obscure radiata; pagina interna albida pallide luteo-fusco tincta.

Tellina dispar Conrad —Sowb., 'Thes. Conch.,' vol. i., p. 306, pl. 59, fig. 108. Natal.

Tellina virgata Linn.—Sowb., 'Thes. Conch.,' vol. i., p. 228, pl. 63, fig. 212. Natal.

Tellina rastellum Hanley.—Sowb., 'Thes. Conch.,' vol. i., p. 225, pl. 64, fig. 231. Natal.

Tellina (Macoma) candida Sowb., n. sp.

Testa sub-oblique ovalis, æquivalvis, inæquilateralis, leviter inflata, alba, glabra, nitens. Umbones acutiusculi, leviter prominentes, conjuncti. Margo dorsalis utrinque declivis; anticus longiusculus; posticus brevior, majis declivis. Margo ventralis leviter arcuatus. Latus anticum rotundatum; posticum obtuse biangulatum.

Antero-post. 16, *umbono-marg.* 12 millim.

Hab. Durban.

A very simple white shell.

Strigillia trotteriana Sowerby, n. sp.

Testa rotunde subovata, solidiuscula, æquivalvis, subæquilateralis, convexiuscula, nitida, alba, luteo tincta, prope umbones lutea, varie et conspicue striata; striis anticis concentricis sub-remotis; medianis obliquis subradiantibus, cum striis anticis angulum deflectum formantibus; posticis sub-concentricis, creberrimis, leviter undulatis. *Margo* dorsalis utrinque declivis; anticus brevis, rotundatus, leviter flexuosus; posticus longior, rectiusculus. *Cardo* normalis. *Pagina* interna lutea.

Antero-post. 12, *umbono-marg.* 10 millim.

The striæ are not so close as in *S. carnaria*; those on the anterior side (nearly half the valve) are nearly concentric, and form an angle with the oblique striæ which cover the middle portion to the posterior angle, behind which they are again concentric and much closer. This very interesting species was found at Durban by Mrs. Trotter.

Donax nitidus Deshayes.—Sowb., 'Thes. Conch.,' vol. iii., p. 314, pl. 282, fig. 75. Natal (Burnup). The specimens of this species in the British Museum are from E. Australia.

Donax lubricus Hanley.—Reeve, 'Conch. Icon.,' *Donax*, pl. 7, fig. 46.

Donax æmulus Smith, 'Proc. Zool. Soc.,' 1877, p. 271, pl. 75, figs. 23-25. Durban (Captain Turton).

Mactra æquisulcata Sowb., n. sp.

Testa sub-trigona, æquivalvis, fere æquilateralis, solidiuscula, leviter inflata, pallide lutescente-cornea, utrinque concentricè dense sulcata; umbones obtusiusculi, incurvati, purpureo tincti; *margo* dorsalis utrinque declivis, area latiuscula, planato-convexa, lunula vix conspicua; *margo* ventralis arcuatus; *cardo* normalis; *pagina* interna polita, albida, pallide purpureo-griseo fasciatim tincta.

Antero-post. 58, *umbono-marg.* 48 millim.

Hab. Natal (Burnup).

I know of no species bearing a very close comparison with this. It is of much the same texture as *M. semisulcata* Desh., but higher and much more nearly æquilateral; it is, moreover, equally sulcated at both ends, the sulci, excepting near the umbones, crossing the valves.

Donax burnupi Sowb., n. sp.

Testa elongata, angusta, leviter flexuosa, pallide fulva, obscure fusco radiata, polita; area postica sulcata, sulcis numerosis profundis oblique sub-verticalis. Margo dorsalis anticus longus, rectiusculus, leviter declivis, posticus brevis, rotundatus. Cardo normalis. Pagina interna albida, utrinque violaceo tincta.

Antero-post. 26, umbono-marg. 12 millim.

Hab. Natal (Burnup).

At first sight this shell resembles the European *D. politus*, but it is distinguished by the remarkable posterior sulci.

Cytherea (Caryatis) manillæ Sowb., 'Thes. Conch.,' vol. ii., p. 634, pl. 136, figs. 180-181. Natal (a single valve).

Cytherea (Meretrix) zonaria Lamarck. — Sowb., 'Thes. Conch.,' vol. ii., p. 620, pl. 129, figs. 53-54. Natal.

Circe (Crista) divaricata Chem.—Sowb., 'Thes. Conch.,' vol. ii., p. 250, pl. 137, figs. 8-9. Natal.

Meroë contempta Smith, 'Proc. Zool. Soc.' Natal.

Cardium tenuicostatum Lamarck.—Reeve, 'Conch. Icon.,' *Cardium*, pl. 10, fig. 50. Natal.

Cardium rugosum Lamarck.—Reeve, 'Conch. Icon.,' *Cardium*, pl. 14, fig. 68. Natal.

Cardium rubicundum Reeve, 'Conch. Icon.,' *Cardium*, pl. 9, fig. 44. Natal.

Cardium papyraceum Chemnitz.—Reeve, 'Conch. Icon.,' *Cardium*, pl. 2, fig. 9. Natal. A specimen in excellent condition, with epidermis in raised ridges on the ribs.

Cardium turtoni Sowb., n. sp.

Testa sub-oblique orbiculata, æquivalvis, inæquilateralis, solidiuscula, parum inflata, albida, maculis fuscis diversiformibus

picta, radiatim costata; costis 26, planulatis, rotunde conspicue nodulosis; interstitiis angustis, transversim sulcatis; umbones prominentes; pagina interna alba, utrinque fusco tincta.

Antero-post. 12, umbono-marg. 12.

Hab. Port Elizabeth.

This species is quoted by me—'Marine Shells of South Africa,' p. 61—as *C. fasciatum* from worn valves found at Port Elizabeth. Having now seen shells in better preservation (though still only odd valves) I am convinced of my error. The nodules are easily worn off, leaving the ribs smooth.

Chama iostoma Conrad.—Reeve, 'Conch. Icon.,' *Chama*, pl. 2, fig. 7. Natal.

Lucina (Codakia) pecten Lamarck.—Reeve, 'Conch. Icon.,' vol. vi., *Lucina*, sp. 38. St. John's, Durban.

Lucina (Divaricella) quadrisulcata D'Orbigny = **Lucina eburnea** Reeve, 'Conch. Icon.,' vol. vi., *Lucina*, pl. 8, sp. 49. Natal. There are specimens in the British Museum from St. Helena. I have the same species from Hong-Kong.

Loripes clausus Philippi, 'Abbilæ und Beschr. Conch.,' vol. iii., *Lucina*, pl. 2, fig. 2. Natal. This is the shell quoted by me in 'Marine Shells of South Africa,' p. 61, as *Loripes lacteus*. There are specimens in the British Museum from Mozambique.

Pinna saccata Linn.—Reeve, 'Conch. Icon.,' *Pinna*, pl. 4, fig. 6. Natal.

Anomia ephippium Linn.—Sowb., 'Illust. Index of British Shells,' pl. 9, fig. 18. Natal.







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