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XXVI.—*Descriptions of Sixty-eight new Gastropoda from the Persian Gulf, Gulf of Oman, and North Arabian Sea, dredged by Mr. F. W. Townsend, of the Indo-European Telegraph Service, 1901-1903.* By JAMES COSMO MELVILL, M.A., F.L.S., F.Z.S., and ROBERT STANDEN, Assistant Keeper, Manchester Museum.

[Plates XX.-XXIII.]

Two years ago we published a Catalogue * of the Mollusca of the Persian Gulf, &c. (Cephalopoda, Gastropoda, and Scaphopoda only), mainly collected by Mr. Townsend in 1893-1900, and enumerating 935 species. In the interim further large consignments have been frequently forwarded by the same energetic collector from many different stations and depths, including especially the results of one particularly profitable dredging on 7th April, 1903, in the Gulf of Oman, lat. 24° 58' N., long. 56° 54' E., at 156 fathoms, which, it is no exaggeration to say, positively teems with novelties. All this has naturally delayed publication of the second portion—to contain the Pelecypoda—of the above-mentioned Catalogue.

At the present opportunity we offer descriptions of many Gastropoda, mostly of small size, though a few—c. g., *Murex*

* Proc. Zool. Soc. 1901, vol. ii. pp. 327-400.

FLORA OF THE PRESIDENCY OF BOMBAY

THE MARINE MOLLUSCS OF BOMBAY

PHYSIOLOGICAL SERIES OF COMPARATIVE ANATOMY

MUSEUM OF THE ROYAL COLLEGE OF SURGEONS OF ENGLAND

If slightly local, it is very abundant where it occurs. The colour in the var. *a* is a subdiaphanous golden brown or straw, and there is a very conspicuous suffusion just behind the outer lip of deep rufous brown, bifurcating over the labrum itself. The commoner form is var. *b*, larger as a rule, and pure milky-white throughout, very smooth and somewhat shining. In one or two examples an intermediate form seems to occur, the last whorl being here white, obscurely bizoned with two clear chestnut lines, or, indeed, occasionally trizoned. In fact it is a variable species.

Terebra helichrysum *, sp. n. (Pl. XXII. fig. 14.)

T. testa gracillima, multum attenuata, aciculata, nitento; anfractibus 22, quorum 3½ apicales læves, vitrei, cæteris paullum apud suturas gradatis, late stramineis, supra, juxta suturas, zona callosa spiraliter præditis, hic illic regulariter albo et rufo maculatis, deinde, inter costas breves, longitudinales, obtusas, nitidas, profunde interstitialiter foraminatis et sulcatis, costis anfractus ultimi ad basim evanidis; apertura ovata, parva, labro tenui, canali brevi.

Long. 24, lat. 5 mm.

Hab. Persian Gulf, Mussandam, 47 fathoms.

A most elegant species, the tumid callous zone just below the sutures delicately variegated spirally with white and pale rufous, then obtusely ribbed, the interstices, especially the upper row, being deeply pitted.

Pleurotoma (Gemmula) navarchus †, sp. n.
(Pl. XXI. fig. 15.)

P. testa eleganter fusiformi, solida, paullum nitente, pallide cinereo-brunnea; anfractibus tredecim, quorum duo apicales nitidi, hyalini, perlæves, cæteris apud suturas impressis, ventricosulis, infra suturas spiraliter pulcherrimo et arcuato nodoso-cingulatis, nodulis hic illic rufo-maculatis, deinde fortiter uniliratis, simul ac infra, juxta suturas, bisulcatis, superficie intermedia lata, nitida, longitudinaliter obliquissimo costulata, ultimo anfractu cæteros exæquante, infra cingulum liramque spiralem usque ad peripheriam lævi, deinde anguste sulculoso, infra usque ad basim sulculis tornatis, latioribus, liris intermediis regulariter rufo maculatis; apertura oblonga, intus planata, labro tenui, sinu lato, haud profundo; columella fere recta, canali subprolongato.

Long. 61, lat. 18, apertura cum canali 28 mm. longa.

Hab. Persian Gulf, Gulf of Oman, lat. 25° 19' N., long. 58° 10' E., 140 fathoms.

* *Ἀλχρησόν*, an everlasting, from the bright rufous spotting.

† *ναύαρχος*, an admiral.

One specimen only dredged, at the locality just given, of a superbly tornate and sculptured *Pleurotoma*, near *P. carinato*, Gray, *Kieneri*, Doumet, or *congener*, Smith, being remarkable for its regular beaded spiral zone just below the sutures of each whorl, above which are two spiral clearly-cut grooves, the middle of the upper whorls being most beautifully obliquely costulate, the costæ terminated above by a double sulcus surrounding a narrow spiral lira. The last whorl, equalling the others in size, is almost entirely grooved and spirally lirate, the liræ below being rufous-spotted. Outer lip thin, perhaps not quite fully developed, sinus well marked but not deep; columella somewhat straight; canal broad and rather prolonged.

The discovery of this mollusk, the finest *Gastropod* yet discovered by Mr. Townsend, if we except *Conus clyptospira*, M. & S., adds another magnificent *Pleurotomid* to the many fine species of this family obtained in contiguous waters, during the 'Investigator' Expedition chiefly (such forms as *P. symbiotes*, Wood-Mason & Alcock, *P. congener*, Smith, and *P. subcorpulenta*, Smith *, occurring to one's recollection at once), and gives another proof of its wonderful development in Indian seas.

Drillia dives, sp. n. (Pl. XXII. fig. 15.)

D. testa gracili, fusiformi, delicata, albo-cinerea; anfractibus decem, quorum tres apicales brunnei, omnino hyalini, lævissimi, cæteris apud suturas impressis, ventricosulis, longitudinaliter obliquicostatis, costis anfractum apud ultimum circa undecim, undique spiraliter striatis, supra, juxta suturas, zona spirali rufo decorata, ultimo anfractu simili modo bizonato, ad basim producto albo, nitido; apertura oblonga, labro paullum incrassato, sinu lato, haud profundo, canali brevi.

Long. 17, lat. 5 mm.

Hab. Persian Gulf, Gulf of Oman, Maskat, 15 fathoms.

Allied to *D. clydonia*, M. & S. (Proc. Zool. Soc. 1901, vol. ii. p. 437, pl. xxiii. fig. 24), but the whorls are not angled, the coloration is quite different, and the spiral ribbing is coarser in *D. dives*.

Drillia philotima †, sp. n. (Pl. XXII. fig. 16.)

D. testa attenuata, fusiformi, solidula, albo-cinerea, aspera; anfractibus 11, quorum duo apicales vitrei, fusci, cæteris ventricosulis, regulariter obliquicostatis, costis anfractus ad superos paucis,

* Ann. & Mag. Nat. Hist. ser. 6, vol. xiv. pp. 160, 161, pl. iii. figs. 4 & 5.

† *φιλότητος*, honoured.

