

XL.—*Three new Fishes from Zululand and Natal, collected by Mr. H. W. Bell Marley; with Additions to the Fish Fauna of Natal.* By J. R. NORMAN.

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I.—DESCRIPTIONS OF NEW SPECIES.

Rhinobatus holcorhynchus, sp. n.

Snout long and obtusely pointed, its præorbital length nearly twice the distance between outer margins of eyes, and its præoral length $3\frac{1}{3}$ times width of mouth. Rostral cartilage strong; ridges widely separated, nearly parallel, slightly converging anteriorly. Diameter of eye 4 times in præoral length of snout; that of eye + spiracle $1\frac{2}{3}$ times interorbital width. Spiracle with two folds, the outer much more prominent than the inner. Nostrils wide, $\frac{4}{5}$ width of mouth, and nearly twice that of the internarial space. The anterior nasal valve extends inwards as far as level of inner edge of nostril, so that valves and nostrils are separated by an interspace of equal length. Mouth straight; 64 rows of teeth in upper jaw. Dorsals equal, elevated; the base of the first equal to its distance from extremities of pelvics, and slightly less than $\frac{1}{3}$ of its distance from second dorsal. Caudal narrow. A distinct series of tubercles in the median line of the back, extending nearly as far as second dorsal; a group of 3 or 4 on shoulder, 7 or 8 in front of orbit, and 3 or 4 above spiracle. Back uniform greyish brown, lighter at sides of rostrum and edges of pelvics; a black blotch beneath extremity of snout.

A single specimen, 28 inches in total length, from the Zululand coast, at a depth of 45 fathoms.

This species appears to be related to *R. leucorhynchus*, Günth.

Holacanthus acanthops, sp. n.

Depth of body twice in the length, length of head $3\frac{1}{4}$. Snout not quite $\frac{1}{2}$ diameter of eye, which is $2\frac{1}{4}$ in length of head. Interorbital width 3 in head. Præoperculum with the vertical margin denticulated; a strong spine at the angle, slightly more than $\frac{1}{3}$ length of head, not reaching vertical from posterior margin of operculum. Suboperculum serrated. Suborbital with a strong backwardly directed spine, $\frac{1}{4}$ length

of head. Dorsal XIV 16; third spine strongest and longest, $\frac{1}{2}$ length of head; soft fin rounded. Pectoral as long as head, reaching origin of anal or a little beyond; pelvics slightly shorter, with the first and second rays produced, reaching origin of anal. Anal III 17; obtusely pointed. Caudal subtruncate. Scales strongly ctenoid, of moderate size; 4 from origin of dorsal to lateral line, which is arched over the pectoral, extends along back near base of dorsal, and ends near end of soft dorsal. Colour:—Head, back, caudal, dorsal, and pectoral fins yellow, rest of fish dusky brown; dorsal with a narrow dark edge.

A single specimen, 36 mm. in total length, from Durban.

It appears to be related to *H. fisheri*, Snyder, 1902, from the Hawaiian Islands, which has three prominent spines on each suborbital.

Sciæna marleyi, sp. n.

Depth of body $3\frac{2}{3}$ in the length, length of head 3. Snout equal to diameter of eye, which is 4 in length of head and equals interorbital width. Snout obtuse and rounded; jaws equal anteriorly; outer teeth strong; maxillary extending a little beyond middle of eye; four open pores beneath the symphysis of lower jaw. Vertical margin of præoperculum indistinctly serrated; angle rounded, with three distinct teeth; operculum with two weak flat spines. 12 gill-rakers on lower part of anterior arch. Dorsal X, I 30; spines slender, third or fourth longest, a little more than $\frac{2}{3}$ length of head, as long as longest soft rays. Anal II 7; spines pungent, rather stouter than dorsals, second $\frac{2}{3}$ length of head. Pectoral $\frac{7}{8}$ length of head. Pelvics shorter, $\frac{3}{5}$ length of head. Caudal pointed (?). Scales ciliated on body, cycloid on head; about 52 in lateral line, and 6 from origin of dorsal to lateral line. Silvery; back darker; a dark opercular spot; a small blackish spot superiorly in axil of pectoral.

A single specimen, 200 mm. in total length, from off St. John's River, at a depth of 40–50 fathoms.

II.—LIST OF SPECIES NEW TO THE FISH FAUNA OF NATAL.

SELACHII.

Hexanchidæ.

Hexanchus griseus, Müll. & Henle.

Carchariidæ.

Galeus canis, Rondel.

Sphyrna zygaena, Linn.

Pristidæ.

Pristis pectinatus, Latham.

Trygonidæ.

Trygon pastinaca, Linn.

TELEOSTEI.

Clupeidæ.

Harengula punctata, Rüpp.

— *vittata*, Cuv. & Val.

Engraulis capensis, Gilchr.

Congridæ.

Conger marginatus, Val.

Synodontidæ.

Saurus varius, Lacep.

Saurida nebulosa, Cuv. & Val.

Macrorhamphosidæ.

Macrorhamphosus velitaris, Pall.

Solenostomidæ.

Solenostoma cyanopterum, Bleek.

Syngnathidæ.

Hippocampus kudu, Bleek.

— *polytaenia*, Bleek.

Gastrotokeus biaculeatus, Bloch.

Scombresocidæ.

Petalichthys capensis, Regan.

Exocoetidæ.

Exocoetus hillianus, Gosse.

Mugilidæ.

Mugil crenilabis, Forsk.

Stromateidæ.

Psenes cyanophrys, Linn.

Stromateus fiatola, Cuv. & Val.

Holocentridæ.

Myripristis murdjan, Cuv. & Val.

Pempheridæ.

Pempheris schwenkii, Bleek.

Serranidæ.

- Epinephelus diacanthus*, Bleek.
 — *gilberti*, Richards.
 — *gigas*, Brünn.

Chilodipteridæ.

- Apogon macropterus*, Kühl & van Hass.

Carangidæ.

- Caranx kurra*, Cuv. & Val.
Naucrates ductor, Cuv. & Val.
Seriola bonariensis, Cuv. & Val.
Lichia amia, Lacep.

Centropomidæ.

- Ambassis commersonii*, Cuv. & Val.
 — *dussumieri*, Cuv. & Val.

Lutianidæ.

- Lutianus analis*, Cuv. & Val.

Mullidæ.

- Upeneus spilurus*, Bleek.
 — *cyclostoma*, Cuv. & Val.

Sciænidæ.

- Sciæna vogleri*, Bleek.
 — *belangerii*, Cuv. & Val.

Pomadasidæ.

- Pomadasis maculatus*, Bloch.
Diagramma punctatum, Cuv. & Val.

Scorpididæ.

- Pelamys orientalis*, Schleg.

Ephippidæ.

- Ephippus orbis*, Cuv. & Val.

Chætodontidæ.

- Holacanthus striatus*, Rüpp.

Cirrhitidæ.

- Cirrhitichthys maculatus*, Lacep.

Chilodactylidæ.

- Chilodactylus brachydactylus*, Cuv. & Val.

Acanthuridæ.

- Zanclus canescens*, Artedi.

Pomacentridæ.

- Glyphidodon notatus*, Day.
—— *antjerius*, Bleek.
—— *florentulus*, Günth.

Labridæ.

- Labroides dimidiatus*, Cuv. & Val.
Julis bicolor, Günth.
Stethojulis phkadopleura, Bleek.
—— *interrupta*, Günth.
—— *kalosoma*, Bleek.
Cossyphus bilunulatus, Lacep.
Novacula tetrazona, Bleek.
—— *pentadactyla*, Linn.

Gobiidæ.

- Gobius æneofuscus*, Peters.
—— *capistratus*, Peters.

Echeneididæ.

- Echeneis albescens*, Schleg.

Scorpænidæ.

- Pterois brachyptera*, Cuv. & Val.

Hoplichthyidæ.

- Hoplichthys acanthopleurus*, Regan.

Blenniidæ.

- Blennius hyphenetes*, Klunz.
—— *capito*, Cuv. & Val.
Salarias periophthalmus, Cuv. & Val.
Xiphasia setifer, Swainson.

Clinidæ.

- Trypterygium obtusirostre*, Klunz.
—— *pusillum*, Klunz.

Tetrodontidæ.

- Spheroides spinosissimus*, Regan.

Diodontidæ.

- Diodon maculatus*, Günth.

Pleuronectidæ.

- Cynoglossus lida*, Bleek.



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