

STUDIES IN AUSTRALIAN FISHES.

No. 5. *

BY

ALLAN R. McCULLOCH, Zoologist, Australian Museum.

(Plates xxv.-xxvi.)

Family TORPEDINIDAE.

Genus TORPEDO, *Houttuyn*.

Torpedo (*Houttuyn*), Jordan, *Genera of Fishes*, 1917, p. 22.

TORPEDO FAIRCHILD, *Hutton*.

(Plate xxv.)

Torpedo fairchildi, Hutton, *Cat. Fish. N.Z.*, 1872, p. 83, pl. xii., fig. 134.
Id., Robson, *N.Z. Journ. Sci.*, ii., 1886, pp. 27, 123 (breeding).

Torpedo fusca, Parker, *Trans. N.Z. Inst.*, xvi., 1884, p. 281, pl. xxii. *Id.*,
Gascoyne, *Trans. N.Z. Inst.*, xxvii., 1895, p. 672.

Narcacion fairchildi, Waite, *Rec. Cantb. Mus.*, i. 1, 1907, p. 8, and *Loc. cit.*, i. 2, 1909, p. 144, pl. xvii.

Narcacion fusca, Waite, *Loc. cit.*, i. 1, 1907, p. 8.

Narcobatus fairchildi, Waite, *Loc. cit.*, i. 4, 1912, p. 316.

Length of the disc, from the snout to the level of the end of the ventrals, 1.17 in its width; tail from the vent 1.4 in the length of the disc. Narrowest interspiracle width 1.3 in the space between the eyes; width of the spiracle equal to the longitudinal bulge of the eye, and 2.2 in the space between the eyes. Mouth as wide as its distance from the end of the snout; internasal width equal to half the preoral length.

Disc subcircular, somewhat flattened in front, with the snout scarcely distinguished; the posterior angles broadly rounded. Eyes small, their length greater than their distance from the spiracle; they are a little nearer to each other than to the anterior margin of the disc. Spiracles without fringes, subovate and oblique; the interspiracle width much less than the space between the eyes. Each nostril with a free upstanding lobe posteriorly, and a second pointed one overhanging the upper lip; internasal valve subquadrangular, the angles rounded; the posterior margin incised on the median line, where there is a small fleshy tubercle. Teeth in a band in each jaw, with broad bases and sharp upstanding points. Skin everywhere smooth, the lateral line well defined on each side of the back.

The first dorsal fin rounded, the middle of its base above the junction of the ventral fin with the tail; its height, measured from its origin to its

* For No. 4, see "Records," xi., 1917, p. 163.