

*Macrurus simulus*.

*Chalinura simula*, Goode and Bean, Bull. Mus. Comp. Zool., vol. x., No. 5, p. 199.

D. 10. P. 20. V. 9.

Snout long, broad, truncate, not much produced; mouth subterminal, lateral, wide. The diameter of the eye is one-fifth of the length of the head, equal to that of the snout, and rather less than the width of the interorbital space. Barbel longer than the eye. Teeth in the upper jaw in a broad villiform band, with the outer series much enlarged; mandibular teeth uniserial. Scales cycloid, without armature, but with indications of radiating striæ. Anterior dorsal spine serrated, the barbs closely adpressed. Outer ventral ray produced into a long filament.

*Habitat*.—Specimens were obtained by the U.S. steamer "Blake," between lat. 31° and 41° N., and long. 65° and 78° W., at depths of 333, 647, and 1242 fathoms, the largest being 18 inches long.

*Macrurus fernandezianus*, n. sp. (Pl. XXXVIII. fig. B).

D. 9. P. 18. V. 10.

Head moderately compressed, but with the sides vertical, the mouth being lateral and anterior; also the front margin of the snout is subvertical. Eye rather small, being contained five and a half times in the length of the head, two-thirds of that of the snout, and three-fifths of the width of the interorbital space. Mouth wide, extending nearly to below the hind margin of the eye; teeth as in *Macrurus leptolepis*. Præoperculum with the hind margin excised, and with the lower margin crenulated. Scales rather thin and deciduous, but with from three to five series of spines; also the scales on the head and in front of the ventral fins are rough; but the snout, nearly the whole of the infra-orbital region, and the limbs of the præoperculum are perfectly scaleless. The distance between the vent and isthmus equals the length of the head, without snout. Barbs of the dorsal spine widely set and few in number; outer ventral ray produced. Brownish; lower parts of the head, abdomen, buccal and branchial cavities black.

*Habitat*.—South of Juan Fernandez, Station 300; depth, 1375 fathoms. One specimen, 11 inches long.

*Macrurus liocephalus*, n. sp. (Pl. XXXVIII. fig. A).

D. 11. P. 20. V. 10.

Head compressed, snout moderately long, but slightly projecting beyond the mouth, which is almost anterior. Eye rather small, two-thirds of the length of the snout and of the width of the interorbital space, and one-sixth of the length of the head. Mouth