

L. ?*Myrichthys* sp. (122 myomeres), Text-fig. 3, B.

MATERIAL EXAMINED. *Centre d'Océanographie de l'Institut Français d'Océanie Collection (1 specimen)*: 48.0mm total length, IFO Station 7-1, 22° 35' S, 166° 16' E, 17/7/62, MWT5, H, ca. 70m.

DESCRIPTION. One specimen (measurements in mm): head 3.2, snout 1.0, eye 0.7, cleft of mouth 1.7, postorbital 1.8, pectoral 0.4, snout-vent 37.5, depth just before eye 1.1, at pectoral origin 1.6, at vent 4.1, at midpoint of caudal region 3.6. Dorsal rays developed only subterminally, anal rays 370. Teeth $\frac{1+V+4}{1+VI+2}$. Myomeres 61 + 61 = 122. Last vertical blood vessel at myomere 60, anterior margin of gall bladder at myomere 24.

Body relatively elongate and compressed, shallow; head sharply conical, eye oval, pectoral very short and rounded; intestine with eight loops; vent placed near the end of the posterior third of the body. Pigmentation relatively conspicuous, in general present along the intestine at the levels of the upward loops, along the lateral surface and on the anal base; in detail as follows:—a line of eight minute chromatophores along the ventral edge of the maxilla; a patch of diffuse pigment on the tip of the lower jaw; five pigment spots on the ventral aspect of the throat; 12 below the pectoral base; rounded patches of pigment spots at the level of each upward loop of the intestine with smaller, insignificant patches intermediate between these; about 11 small patches of chromatophores evenly spaced along the anal base; a pigment spot on the base of each anal ray; about 30 diffuse patches of chromatophores spaced equally along the midlateral body wall; one or two clumps of pigment spots along the caudal region deep under the vertebral column; eight patches of pigment scattered irregularly along the lateral surface above the lateral line; on each myoseptum obliquely below the midlateral line usually about six but occasionally as many as 20 minute chromatophores on the myosepta.

REMARKS. The major feature of the pigmentation which distinguishes the present group of three species from the leptocephali of ?*Cyclophichthys* is the additional pigment present on almost every myoseptum below the midlateral line, the eight patches of pigment scattered along the lateral surface midway between the midlateral line and the dorsal margin, and the placing of the circular patches of surface chromatophores midlaterally rather than slightly below the midlateral line (as in the preceding species).

L. ?*Myrichthys* sp. (131–135 myomeres).

MATERIAL EXAMINED. *Centre d'Océanographie de l'Institut Français d'Océanie Collection (3 specimens)*: 47.0mm total length, IFO Station S.2, 20° 10' S, 163° 27' E, 7/6/62, MWT5, H, ca. 95m; 17.1, 18.3, St 7-4, 22° 35' S, 166° 16' E, 17/7/62, MWT5, H, ca. 35m.

DESCRIPTION. Three specimens: total lengths 17.1mm–47.0mm, myomeres 57–62 + 69–77 = 131–135, last vertical blood vessel at myomere 57–68, anterior margin of gall bladder at myomere 19–21, teeth $\frac{1+III-IV+3}{1+IV+3}$.

L. ?*Myrichthys* sp. (158–160 myomeres).

MATERIAL EXAMINED. *Centre d'Océanographie de l'Institut Français d'Océanie Collection (1 specimen)*: 78.7mm total length, IFO Station MWT 3 I, 10 miles west of Bulari Pass, New Caledonia, 1/8/61, MWT3, H, ca. 23m.

C.S.I.R.O. Division of Fisheries and Oceanography (Cronulla) Collection (1 specimen): 75.3, *Fairwind*, Jaquinet Bay, New Britain, 13/1/50, submarine light and net.