

5. *Centropomus viridis*.

Centropomus viridis, Lockington, Proc. Calif. Ac. Sci. viii. 1877, p. 110¹; Jord. & Everm. Bull. U.S. Nat. Mus. xlvii. 1896, p. 1118².

Centropomus undecimalis (part.), Gilb. & Starks, Mem. Calif. Ac. Sci. iv. 1904, p. 89³.

Depth of body $4\frac{1}{4}$ – $4\frac{1}{3}$ in the length, length of head $2\frac{5}{8}$ –3. Snout 2 – $2\frac{1}{4}$ as long as eye, the diameter of which is 8 in the length of head, interorbital width 7 – $7\frac{1}{2}$. Maxillary extending beyond middle of eye, its greatest width $\frac{4}{5}$ the diameter of eye. Præorbital weakly serrated; præoperculum acutely serrated, the serræ enlarged at the angle; 1 or 2 feeble spines at angle of præopercular ridge. Opercular flap not reaching the vertical from origin of dorsal. 8 or 9 well-developed gill-rakers and a few rudiments on the lower part of anterior arch. 65–70 scales in a longitudinal series, 8 or $8\frac{1}{2}$ between middle of second dorsal and lateral line. Dorsal VIII, I 9; third spine longest, $\frac{1}{2}$ the length of head. Anal III 6; second and third spines subequal in length, nearly $\frac{1}{4}$ the length of the fish. Pectoral $\frac{1}{2}$ the length of head. Ventrals not reaching vent, which is situated at about $\frac{5}{8}$ of the distance from base of ventral spine to origin of anal. Caudal peduncle 2 as long as deep. Silvery or golden, back greenish; lateral line blackish; spinous dorsal dusky.

Hab. Pacific Coasts of Tropical America:

Lower California, Asuncion I.¹.—Mazatlan²; Panama^{2 3}.

Here described from two specimens, 350 and 380 mm. in total length, from Panama and Mazatlan.

As in its Atlantic representative, *C. undecimalis*, the air-bladder has a pair of anterior appendages. From *C. undecimalis*, with which it has been confused, this species is seen to differ, when specimens of the same size are compared, in the somewhat smaller eye, broader interorbital region, broader maxillary, shorter anal spines, and more anteriorly placed vent. Moreover, the two specimens here described agree in having 9 branched rays in the dorsal fin, whilst all I have seen of *C. undecimalis* have 10.

The principal differences are shown by the following measurements (in millimetres) of the two specimens of *C. viridis* and the two of *C. undecimalis* which come nearest to them in size:—

	<i>C. viridis.</i>		<i>C. undecimalis.</i>	
Length, to base of caudal	320	345	295	330
Interorbital width	14	17	12	12
Length of second anal spine	45	49	51	54
Distance from base of ventral spine to vent	70	80	70	88
„ „ vent to origin of anal	40	45	30	32

6. *Centropomus nigrescens*.

Centropomus nigrescens, Günth. Proc. Zool. Soc. 1864, p. 144¹, and Trans. Zool. Soc. vi. 1868, p. 407²; Vaill. & Boc. Miss. Sci. Mex., Poiss. p. 20, t. 1 bis, fig. 1 (1874)³; Bouleng. Cat. Fish. i. p. 368 (1895)⁴; Jord. & Everm. Bull. U.S. Nat. Mus. xlvii. 1896, p. 1119⁵; Gilb. & Starks, Mem. Calif. Ac. Sci. iv. 1904, p. 90⁶.

Centropomus undecimalis (part.), Bouleng. t. c. p. 367⁷.

Depth of body 4 in the length, length of head $2\frac{2}{3}$ – $2\frac{4}{5}$. Snout $1\frac{1}{3}$ – $1\frac{3}{4}$ as long as eye, the diameter of which is 5–7 in the length of head; interorbital width 7 – $7\frac{1}{3}$ in the length of head. Maxillary extending to below