

5. **HERICHTHYS**, Baird & Girard, 1854.

*Herichthys*, Regan, Ann. Mag. Nat. Hist. (7) xvi. 1905, p. 434.

Differs from *Cichlosoma* only in the dentition, the enlarged outer series of teeth being compressed. The four species inhabit Mexico and Central America, one ranging into Texas, the northern limit of the family.

*Synopsis of the Species.*

- I. D. XV–XVII 10–12. A. V (VI 7) 8–9. Caudal peduncle  $\frac{3}{5}$  as long as deep . . . . . 1. *cyanoguttatus*.  
 II. D. XVI–XVII 13. A. V 10. Caudal peduncle as long, or nearly as long, as deep.  
 Last dorsal spine more than  $\frac{1}{2}$  the length of head; diameter of eye  $3\frac{3}{4}$  in the length of head (in a specimen of 182 mm.) . . . . . 2. *bocourti*.  
 Last dorsal spine less than  $\frac{1}{2}$  the length of head; diameter of eye 4 in the length of head (in a specimen of 126 mm.) . . . . . 3. *underwoodi*.  
 III. D. XVI–XVIII 11–12. A. VI–VII 9–10. Caudal peduncle  $\frac{1}{2}$  to  $\frac{2}{3}$  as long as deep . . . . . 4. *geddesi*.

1. **Herichthys cyanoguttatus**, Baird & Girard, 1854.

*Herichthys cyanoguttatus*, Regan, Ann. Mag. N. H. (7) xvi. 1905, p. 434.

*Hab.* NORTH-EASTERN MEXICO, Nuevo Leon, Tamaulipas, and San Luis Potosi, extending into Texas.

2. **Herichthys bocourti**, Vaill. & Pellegrin, 1902.

*Herichthys bocourti*, Regan, Ann. Mag. N. H. (7) xvi. 1905, p. 435.

*Hab.* GUATEMALA, Lake [Yzabal] Isabel.

3. **Herichthys underwoodi**, sp. n. (Tab. III. fig. 5.)

Depth of body  $2\frac{2}{5}$  in the length, length of head  $3\frac{1}{3}$ . Snout nearly as long as postorbital part of head. Diameter of eye 4 in the length of head, interorbital width  $2\frac{3}{5}$ . Depth of præorbital slightly more than the diameter of eye. Jaws equal anteriorly; maxillary extending to between nostril and eye; fold of the lower lip not continuous; cheek with 5 series of scales; 8 gill-rakers on the lower part of anterior arch. Scales  $32\frac{5}{13}$ ,  $3\frac{1}{2}$  between lateral line and anterior part of soft dorsal. Dorsal XVII 13, commencing above the extremity of operculum, the spines subequal from the fourth to the fourteenth, thence increasing in length to the last, which is less than  $\frac{1}{2}$  the length of head; soft fin, when laid back, extending a little beyond the base of caudal. Anal V 10. Ventrals extending to the vent. Caudal rounded. Caudal peduncle as long as deep. Body with 6 dark cross-bars; vertical fins with small dark spots.

*Hab.* COSTA RICA (*C. F. Underwood*).

A single specimen, 126 mm. in total length.

4. **Herichthys geddesi**, Regan, 1905. (Tab. III. fig. 4.)

*Herichthys geddesi*, Regan, Ann. Mag. N. H. (7) xvi. 1905, p. 436.

*Hab.* SOUTHERN MEXICO (*Geddes*).