

1. Vomerine patches of teeth continuous with the larger club-shaped palatine patches; maxillary barbel extending to operculum or nearly to base of pectoral.
Width of mouth slightly more than $\frac{1}{2}$ the width of head 6. *assimilis*.
Width of mouth nearly $\frac{2}{3}$ the width of head 7. *guatemalensis*.
2. Vomerine patches of teeth oblong or oval, continuous or subcontinuous with the palatine patches, which are only a little larger than the vomerine ones and of similar form; maxillary barbel extending beyond the base of pectoral 8. *cærulescens*.
- B. Fontanel produced backwards into a feeble groove which does not reach the parieto-occipital; occipital process twice as long as broad; inner edge of pectoral spine weakly serrated; anal of 21 or 22 rays . 9. *lentiginosus*.
- C. Fontanel produced backwards into a groove which nearly or quite reaches the parieto-occipital; inner edge of pectoral spine weakly or moderately serrated; anal fin of 14 to 20 rays.
 1. Occipital process subtriangular, much broader than long; 9 to 12 gill-rakers on the lower part of the anterior arch; adipose fin shorter than the dorsal.
Occipital process rounded posteriorly; præmaxillary band of teeth $4\frac{1}{2}$ times as long as broad 10. *guentheri*.
Occipital process with straight sides and truncate apex; præmaxillary band of teeth 5 to 6 times as long as broad 11. *seemani*.
 2. Occipital process as long as broad; 6 gill-rakers on the lower part of the anterior arch; adipose fin a little longer than the dorsal . . 12. *longicephalus*.
 3. Occipital process 3 times as long as broad; 10 gill-rakers on the lower part of the anterior arch; adipose fin as long as the dorsal . 13. *peruvianus*.

1. *Galeichthys dowii*.

Leptarius dowi, Gill, Proc. Ac. Philad. 1863, p. 170¹.

Arius alatus, Steind. Sitzungs. Ak. Wien, lxxii. 1876, p. 569, t. 6².

Selenaspis dowi, Jord. & Everm. Bull. U.S. Nat. Mus. xlvii. 1900, p. 2761³.

Hab. Pacific Coast from Panama to Ecuador:

Panama^{1 2 3}; Ecuador³.

This is the Pacific representative of *G. herzbergii*, Bl., from Guiana and Brazil.

2. *Galeichthys troscheli*.

Sciades troscheli, Gill, Proc. Ac. Philad. 1863, p. 171¹.

Arius troscheli, Günth. Cat. Fish. v. p. 150 (1864)².

Arius brandtii, Steind. Sitzungs. Ak. Wien, lxxii. 1876, p. 571, t. 3³.

Sciædichthys troscheli, Jord. & Everm. Bull. U.S. Nat. Mus. xlvii. 1900, p. 2757⁴.

Depth of body 5 in the length, length of head $3\frac{3}{4}$. Breadth of head $1\frac{1}{8}$ to $1\frac{1}{5}$ in its length, diameter of eye 7 to $8\frac{1}{2}$. Fontanel not produced backwards into a distinct groove; occipital process with a weak keel, broader than long, the sides straight, the posterior edge emarginate; dorsal shield sub-pentagonal, emarginate posteriorly, about as broad as long, its length in the median line $\frac{1}{6}$ to $\frac{1}{7}$ of the distance from tip of snout to origin of dorsal fin. Width of mouth $\frac{3}{5}$ to $\frac{2}{3}$ the width of head; præmaxillary band of