

CYCLOTUS.

Cyclotus, Guilding, in Swainson's Malac. p. 186 (1840).

Operculum thick, calcareous, many-whorled, nucleus central.

Subgen. APEROSTOMA.

Aperostoma (Troschel), Pfeiffer, in Malak. Blätt. 1847, p. 47.

Neocyclotus, Fischer & Crosse, Miss. Scient. Mex., Mollusca, ii. p. 148 (1889).

Peristome simple, straight.

1. *Cyclotus* (*Aperostoma*) *irregularis*.

Cyclostoma (*Cyclotus*) *irregulare*, Pfr. P. Z. S. 1855, p. 117¹.

Cyclotus irregularis, Pfr. Monogr. Pneum. Vivent. ii. p. 15²; Reeve, Conch. Icon. xiv., *Cyclotus*, t. 4. fig. 18³; Angas, P. Z. S. 1879, p. 483⁴.

Hab. E. COSTA RICA: Costa Rica^{2 3} (*Gabb*⁴; *mus. Cuming*¹); Cache (*Rogers*); "the commonest shell in Talamanca; coast region, and to 500 feet high on the hills" (*Gabb*⁴).

Lower margin of the aperture often injured, probably by the "animal grazing, so to say, to satisfy a demand for lime"⁴. From this circumstance it becomes doubtful whether *C. bisinuatus* is really distinct from *C. irregularis*.

2. *Cyclotus* (*Aperostoma*) *bisinuatus*.

Cyclotus bisinuatus, v. Mart. in Malak. Blätt. xi. p. 113, t. 3. figg. 1, 2 (1864)¹, & xv. p. 156 (1868)²; Pfr. Monogr. Pneum. Vivent. iii. p. 26³.

Hab. S.W. GUATEMALA: Costa Cuca above Retalhuleu; southern slope of "Los Altos," at San Francisco Miramar 2500 feet; and in the district Chalhuitz, on the slope of the Volcan de Santa Maria, at an elevation of from 3000 to 5000 feet, in the woods on the ground, under decayed leaves (*Stoll*).

C. COSTA RICA: elevated plains of Costa Rica (*C. Hoffman*^{1 3} and *Carmioli*², in *mus. Berol.*).

Outer face of the operculum deepened in the middle; whorls at most six, the inner edge of each prominent in a right angle.

Living animal pale reddish-grey; feelers bright orange, tapering; muzzle produced, bilobed (*Stoll*).

3. *Cyclotus* (*Aperostoma*) *dysoni*. (Tab. I. figg. 1, 2, 17.)

Cyclostoma dysoni, Pfr. P. Z. S. 1851, p. 243¹; Martini & Chemnitz, Syst. Conch.-Cab. ed. 2, *Cyclostoma*, no. 244, p. 259, t. 35. figg. 5, 6².

Cyclophorus dysoni, Pfr. Monogr. Pneum. Vivent. i. p. 98³; Gray, Cat. Phaneropn. p. 69⁴.

Cyclotus dysoni, Pfr. Monogr. Pneum. Vivent. ii. p. 19 (operculum)⁵; Reeve, Conch. Icon. xiv., *Cyclotus*, t. 6. fig. 31⁶; v. Mart. P. Z. S. 1875, p. 648⁷; Angas, P. Z. S. 1879, p. 483⁸.