

TYPE LOCALITY: LACMIP 291 (Los Angeles County Museum, Invertebrate Paleontology, Locality 291). An exposed stratum of black silt, weathering into gray, in a gully in the center of the south half of Sec. 27, T. 4N, R. 15W, Mt. San Bernardino B. and M., (which is probably the same as Kew's Loc. No. 3590)²; it is exactly ½ mile south of the Humphreys RR Station, Los Angeles County, Calif.

AGE AND FORMATION: Upper Pliocene, Pico formation.

DIAGNOSIS: Shell small for the genus, ovate-conical; whorls seven, convex, strongly cancellated by prominent axial ribs (sloping posteriorly at 5 degrees to the axis of the shell) and overlying (less prominent) thinner ridges, together forming squarish concave interspaces on the last five whorls; spire acuminate at an angle of 62 degrees; sutures deep, sharply defined; the body whorl with 15 ribs, the sixth whorl with 19, the fifth with 16, the fourth with 16, the third with 14 obsolete riblets, and the first two whorls bare, forming a simple smooth nucleus; inner lip thin, reflected, with four prominent parietal bar-like tubercles, forming upper and lower pairs; outer lip thick (with an inner thickening resembling an internal varix) with one prominent tooth in the middle and three lesser bar-like tubercles, one above and two below it; columella extended, with a strong plication on the inner side, and a deep, narrow groove, around it at the base of the body whorl. The holotype, a large adult, measures: length 9.6 mm., breadth 5.5 mm. The holotype has the outer lip interiorly extended by an elongated tubercle which deepens the canal (See Pl. 30 fig. C); sectioned paratype No. 142 shows the tubercle to be continuous with the columella.

PARATYPES: Out of 500 plus specimens of the species available, 130 near-perfect adults were selected and measured. A longitudinal section of one (L.A. Co. Mus. No. 142) is figured (pl. 30, fig. B).

Absolute means of the measurements of the paratype lot are:

1. length—7.282 mm.
2. width—4.581 mm.
3. ratio length to width—1.589.

DISTRIBUTION: Known only from the type locality.

²Kew, W.S.W., USGS Bull. 753, pp. 77-81.