

THREE NEW LAND SHELLS FROM MEXICO AND GUATEMALA.

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Among the mollusks collected by Messrs. E. W. Nelson and E. A. Goldman in Mexico and H. Pittier in Guatemala are several new forms which are characterized below.

EUGLANDINA NELSONI, new species.

Plate 33, figs. 1, 3, 4, 6.

Shell elongate, ovate, semitranslucent, light horn yellow. Nuclear whorls, two and one-half, smooth. Post-nuclear whorls slightly rounded, appressed at the summit, marked by numerous slender, slightly retractive axial riblets which are about as wide as the shallow spaces that separate them. These riblets are strongest near the suture which they render feebly crenulate, and least developed on the base. There is no indication of spiral sculpture. Sutures well marked. Outer lip of aperture sigmoid in outline, the middle portion being built out; columella evenly, gently curved.

There are four specimens of this species before me, cotypes (Cat. No. 207784 U.S.N.M.), collected by Nelson and Goldman at Acaponeta, Tepic, Mexico. They vary considerably in size and outline.

The following table gives their measurements:

| Number of whorls. | Length. | Diameter. | Length of aperture. ^a |
|-------------------|------------|------------|----------------------------------|
| | <i>mm.</i> | <i>mm.</i> | |
| 7 | 39.0 | 15.0 | 12.2 |
| 6 | 37.0 | 15.5 | 19.6 |
| 6 | 31.7 | 15.5 | 17.3. Apex deformed. |
| 6 | 30.0 | 14.0 | 16.0. Not quite mature. |

^a The length of aperture is taken from the posterior angle to the most anterior point of the outer lip.

Named for E. W. Nelson.

OMPHALINA PITTIERI, new species.

Plate 33, figs. 2, 7, 8.

Shell with depressed broadly conic spire, thin, semitransparent, of light olive color. Nuclear whorls two and one-fourth, vitreous with a few feeble distant axial striations in the early portion. On the later they become gradually stronger and closer spaced until they assume the character of the sculpture of the succeeding turns. Post-nuclear whorls well rounded, marked by numerous quite regular, closely crowded, decidedly retractive, axial riblets. Sutures well impressed. Periphery of the last whorl well rounded, marked by the continuations of the axial riblets. Base broadly, openly, umbilicated, well rounded, marked by the continuations of the axial riblets, which are less strong here than on the upper surface. In addition to these riblets the base is marked by quite evenly distributed, strongly impressed axial lines which lend it the appearance of being rather coarsely ribbed. These impressed lines are much more distantly spaced than the riblets on the spire and are strongest within the umbilicus. Entire surface minutely spirally striated. Aperture sub-circular, its walls very thin.

The type (Cat. No. 207783 U.S.N.M.) was collected by Prof. H. Pittier at Alta Vera Paz, in the vicinity of Secanquim, Guatemala, at an altitude of 550 meters. It has $6\frac{1}{4}$ whorls and measures: Altitude 21.0 mm., greatest diameter 33.4 mm., lesser diameter 29.0 mm.

The present species is related to *O. euryomphala* Pfeffer, but is smaller and has the whorls more rounded. This difference in the whorls renders the aperture of *euryomphala* oval, while that of *pittieri* is almost circular.

Named for Henry Pittier.

EUGLANDINA PILSBRYI, new species.

Plate 33, fig. 5.

Shell elongate ovate, chocolate brown. Nuclear whorls four, marked by fine retractive axial riblets, which have a tendency to form two series, one a little stronger than the other, the two alternating. Succeeding whorls almost four, moderately rounded, shouldered at the summit, marked by irregular and irregularly slanting sinuous, strong axial riblets, which extend equally strong over the entire surface of the whorl. In addition to the axial sculpture the intercostal spaces show traces of spiral striation at irregular intervals. Sutures strongly marked. Periphery and base well rounded, the latter slightly produced. Aperture auriculate, chocolate brown with a bluish cast within; posterior angle acute; outer lip thin, sinuous,

somewhat produced at the periphery; columella short, curved, revolute, truncated anteriorly; parietal wall glazed with a thin callus.

The type (Cat. No. 207776 U.S.N.M.) was collected by Nelson and Goldman near Bolanos, Jalisco, Mexico. It measures: Length 63.7 mm., diameter 27.5 mm., length of aperture 31.0 mm.

Named for Henry A. Pilsbry.

EXPLANATION OF PLATE 33.

All figures natural size.

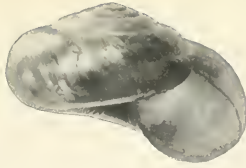
Figs. 1, 3, 4, and 6. *Euglandina nelsoni* Bartsch.

Figs. 2, 7, and 8. *Omphalina pittieri* Bartsch.

Fig. 5. *Euglandina pilsbryi* Bartsch.



1



2



3



4



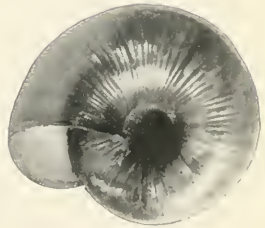
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6



7



8

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FOR EXPLANATION OF PLATE SEE PAGE 323.