



**Distribution:** Jalama Formation, (area 12) western Santa Ynez Mountains, Santa Barbara Co.; Debris Dam Sandstone, (area 13) Agua Caliente Canyon, San Rafael Mountains, Santa Barbara Co., California; Chatsworth Formation, upper part (area 16) at Lang Ranch, Ventura Co., California; Point Loma Formation, (area 19) near Carlsbad, San Diego Co., California; Rosario Formation, (area 22) Cañon San Fernando, northwestern Baja California, Mexico.

**Geologic Age:** Late Campanian and early Maastrichtian.

**Discussion:** The above description is based on 13 specimens. The best preservation occurs in the Point Loma Formation near Carlsbad.

*Lysis jalamaca* is similar to *L. suciensis* but has coarser, more scaly costae than *L. suciensis*, and available specimens of *L. jalamaca* are smaller and less elongate than are large specimens of *L. suciensis*. *Lysis jalamaca* is also similar to *L. duplicosta* in having variable sculpture and in having the strongest cords on the periphery, but *L. jalamaca* is less angulate at the periphery and has weaker cords there. In addition, *L. jalamaca* differs from *L. duplicosta* by being more elongate, having finer sculpture, and having the shelf broader posteriorly. The specimen (LACMIP 13378, Figures 18, 19) from the Jalama Formation has ribbing similar to *L. duplicosta*, but its shelf appears to wrap farther onto the interior of the outer whorl than is usual for *L. duplicosta*.

**Etymology:** The specific epithet, a name in apposition, reflects the new species occurrence in the Jalama Formation, Santa Barbara Co., California.

*Lysis lomaensis* new species  
(Figures 37-39)

**Diagnosis:** *Lysis* with low spire and last whorl bearing numerous flanged carinae separated by wide interspaces bearing several spiral threads.

**Description:** Shell medium size (up to 17 mm height and 30 mm diameter, same specimen), neritiform (last whorl rapidly expanding); spire very low, approximately 10 to 15% of shell height; protoconch 1.5 whorls, low and smooth; teleoconch 2 to 2.5 whorls, very carinated; suture abutting just anterior to periphery; sculpture consisting of up to 11 strong cords; cord at periphery and next three cords posterior of periphery very thin, flanged, and protruding (with cord at periphery protruding most); posteriormost part of last whorl (in vicinity of suture) with approximately three low scaly cordlets; up to three beaded to lowly spinose cordlets anterior to medial carina at periphery; interspaces between all cords wide and bearing up to seven spiral threads (occasional thread can locally develop into small flanged cord); area anterior to medial carina can be covered with only fine cordlets; aperture circular with margin sharply demarked by raised edge; shelf moderately wide, wrapping past suture and attached to inside of outer lip; posterior half of outer lip digitate.