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NEW MOLLUSKS  
FROM THE ROUND MOUNTAIN  
SILT (TEMBLOR) MIOCENE OF CALIFORNIA

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## GENUS HASTULA H. and A. Adams, 1853

Type (by subsequent designation, Cossmann, 1896): *Buccinum strigilatum* Linnaeus, 1758.

**Hastula gnomon** Keen, n. sp.

Plate 4, fig. 11

Shell of medium size, slender, whorls flat; sculpture of narrow axial ribs which disappear on anterior part of later whorls, numbering (on holotype) 17 to 20 ribs per whorl; surface except for the puckered axial ribbing smooth and shining; outer lip of aperture evidently thin (broken on all specimens examined); parietal wall with a thin callus, columella bearing an obscure basal fold, siphonal fasciole with a faint median groove.

*Holotype*.—Stanford Univ. Paleo. Type Coll. no. 7536, from LSJU loc. 2121, Donald Birch collector.

*Dimensions*.—Height 17.2, maximum diameter 4.6, height of aperture 4.6 mm.

*Discussion*.—In the West American Recent fauna *Hastula* is represented in the Panamic area by *Terebra luctuosa* Hinds, 1844 (Proc. Zool. Soc. London for 1843, p. 157), which is larger, with more numerous axial plications. Woodring has reported two species of *Hastula* from the Bowden formation of Jamaica (*H. jamaicensis* Woodring, Carnegie Inst. Publ. 385, 1928, p. 143, pl. 4, fig. 4, and *H. homala* Woodring, *ibid.*, pl. 4, fig. 5). *H. gnomon* resembles the former in size, the latter in outline but has less prominent axial ribs than either. Of the four St. Mary's and Calvert Miocene species described by Martin (Maryland Geol. Surv. Miocene, 1904, pp. 143-144, pl. 40, figs. 10-14), *Terebra (Hastula) patuxentia* is nearest to *gnomon*; its axial sculpture is more closely spaced, however, and the illustration shows spiral striations. No *Hastula* have been reported from lower or middle Miocene deposits in the Caribbean. Therefore, this record in California seems to be the earliest in the Americas. The genus is recorded in the Eocene of Europe.

The word *gnomon* is a Latin noun, masculine gender; a *gnomon* is a pin or pointer on a sun dial.

## GENUS MANGELIA Risso, 1826

Type (by subsequent designation, Herrmannsenn, 1852): *Mangelia striolata* Risso=*Murex attenuatus* Montagu, 1803.

Subgenus CACODAPHNELLA Pilsbry and Lowe, 1932

Type (by original designation): *Cacodaphnella delgada* Pilsbry and Lowe, 1932.

**Mangelia (Cacodaphnella?) kernensis** (Anderson and Martin)

*Mangilia kernensis* Anderson and Martin, 1914. Proc. Calif. Acad. Sci., ser. 4, vol. 4, p. 94, pl. 7, figs. 6 a-b. Barker's Ranch, Kern Co., Miocene.

Plate 4, fig. 21

*Hypotype*.—Stanford Univ. Paleo. Type Coll. no. 7537, from LSJU loc. 2121.

## PLATE 4

All specimens illustrated on this Plate are deposited in the Stanford University Paleontological Type Collection.

- Fig. 1. *Anachis watsonae* Keen, n. sp. Holotype no. 7530. LSJU loc. 2121, Round Mountain silt (Miocene), Kern County, California.  $\times 2.7$ . P. 42.
- Fig. 2. Back view of specimen shown in fig. 1.
- Fig. 3. *Olivella ischnon* Keen, n. sp. Holotype no. 7542. LSJU loc. 2121.  $\times 2.7$ . P. 50.
- Fig. 4. Back view of specimen shown in fig. 3.
- Fig. 5. *Balcis conchita* Keen, n. sp. Holotype no. 7538. LSJU loc. 2121.  $\times 4.2$ . P. 43.
- Fig. 6. *Eulima gabbiana* (Anderson and Martin). Hypotype no. 7543. LSJU loc. 2641, "Barker's Ranch", Kern Co., California. Round Mountain silt (possibly uppermost Olcese sand), Miocene.  $\times 3.3$ . P. 45.
- Figs. 7-9. *Teinostoma* (*Teinostoma*?) *lens* Keen, n. sp. Holotype no. 7545. LSJU loc. 2121. Fig. 7, view from above; fig. 8, apertural view; fig. 9, basal view.  $\times 7.1$ . P. 51.
- Fig. 10. *Volvulella gluma* Keen, n. sp. Holotype no. 7550. LSJU loc. 2641.  $\times 7.3$ . P. 54.
- Fig. 11. *Hastula gnomon* Keen, n. sp. Holotype no. 7536. LSJU loc. 2121.  $\times 2.6$ . P. 47.
- Fig. 12. *Mitrella* (*Mitrella*) *anchuela* Keen, n. sp. Holotype no. 7539. LSJU loc. 2121.  $\times 3.8$ . P. 48.
- Figs. 13, 14. *Cylichna temblorensis* Keen, n. sp. Holotype no. 7533. LSJU loc. 2121. Fig. 13, view from above; fig. 14, apertural view.  $\times 7.0$ . P. 44.
- Fig. 15. *Moniliopsis electilis* Keen, n. sp. Holotype no. 7540. LSJU loc. 2121.  $\times 2.5$ . P. 49.
- Fig. 16. *Cylichna*? *loismartinae* Keen, n. sp. Holotype no. 7532. LSJU loc. 2121.  $\times 7.3$ . P. 44.
- Fig. 17. *Odostomia* (*Evalea*) *andersoni* Bartsch. Hypotype no. 7541-a. LSJU loc. 2641.  $\times 6.7$ . P. 49.
- Fig. 18. Back view of specimen shown in fig. 16.
- Fig. 19. *Turbonilla* (*Pyrgolampros*) *mariposa* Keen, n. sp. Holotype no. 7547. LSJU loc. 2121.  $\times 7.0$ . P. 52.
- Fig. 20. *Turbonilla* (*Pyrgiscus*) *bravoensis* Keen, n. sp. Paratype no. 7546-b; nucleus and early whorls of spire. LSJU loc. 2121.  $\times 14.5$ . P. 51.

