

California, February 19, 1935. Eight additional specimens taken at the same time and place. No living examples found.

LOS ANGELES MUSEUM, LOS ANGELES, CALIFORNIA

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## NEW MOLLUSKS FROM THE PANAMIC PROVINCE

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(Plate 1)

### Mytilidae

**Modiolus (Modiolus) nonuranus** n. sp. Plate 1, fig. 3.

Beach of Nonura Bay, near Punta Aguja, northern Peru (Olsson), type 164612 ANSP.; also at Punta Capullana between Talara and Lobitos attached to stones. Paratypes in Olsson collection.

A mussel having the general shape of *M. modiolus* (L.), covered with a black epidermis shading into olivaceous-brown at the beaks and a more dusky ray of the same extending to the ventral margin. Beaks quite tumid. Valves strongly convex from beaks to lower posterior outline, the ventral surfaces flattened, dorso-posterior surfaces moderately convex. Hinge line long, five-eighths as long as the shell. Surface with weak growth wrinkles, stronger on the ventral sides in the anterior half; posteriorly there is a faint appearance of radiating striae in the texture of the epidermis. Interior cream-white with a broad ray of vinaceous of varying intensity in the middle, a shorter stain of the same under the dorso-posterior angle.

Length 39.00 mm., greatest height 19.50 mm., diameter 16.50 mm.

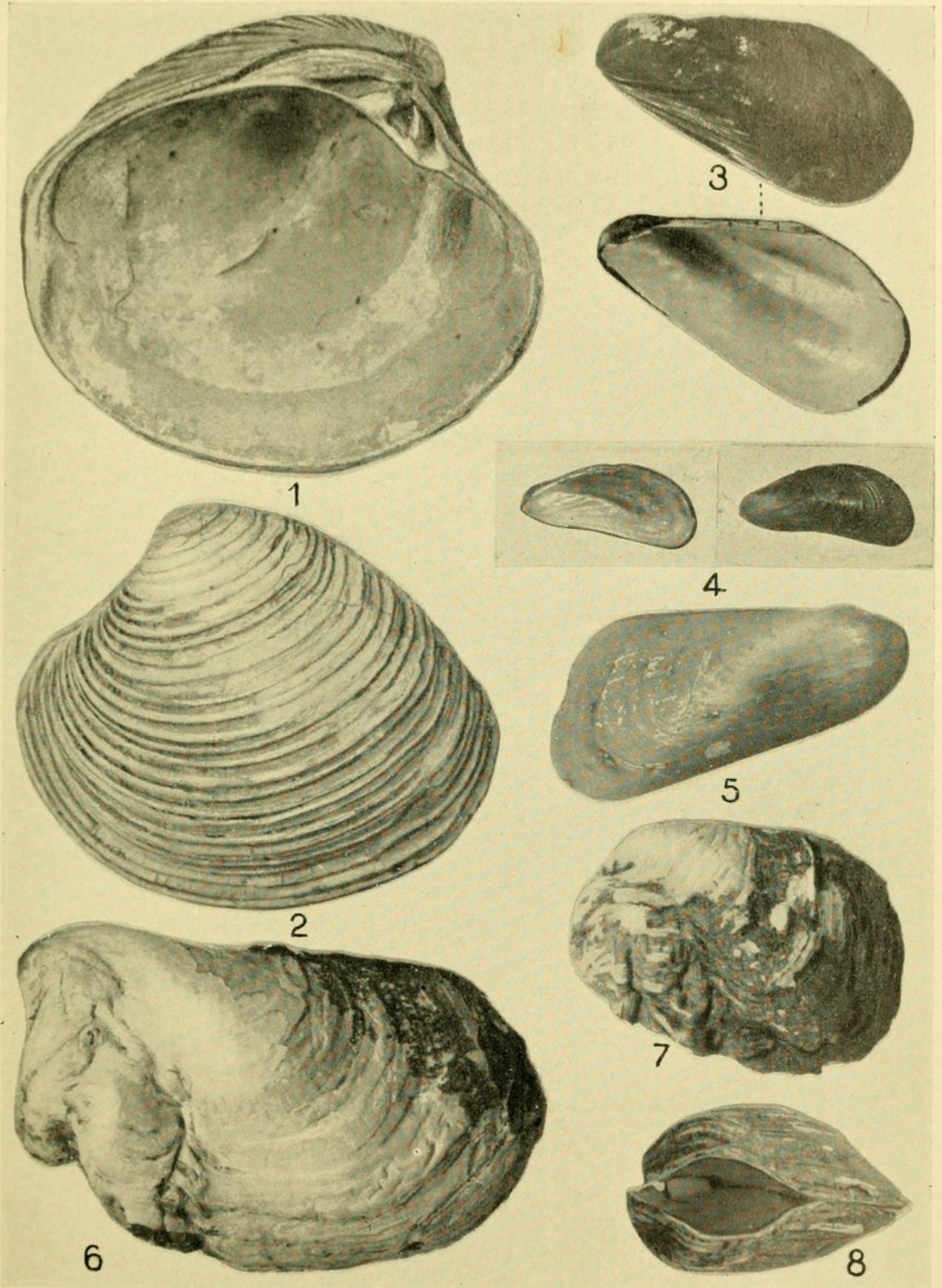
“ 37.50 mm., “ “ 23.00 mm. “ “ “

Though this mussel is abundant where found, we cannot find that it has been noticed hitherto. Rarely the interior is creamy white throughout except for a faint, vinaceous stain along the hinge. In the specimens from Punta Capullana, the whole interior is often clouded with vinaceous, generally darker than in the type lot, and the shells are smaller, up to 30 mm. long.

**Modiolus (Modiolus) tumbezensis** n. sp. Plate 1, fig. 5.

Beach at Puerto Pizarro, northern Peru (Olsson), type 164618 ANSP. Paratypes from tidal flats of Rio Tumbes, northern Peru. Also on beach specimen from Boca Pan.

Shell about 40–45 mm. in length, very thin, much compressed; beaks small, in a specimen 43 mm. long, the beak is about 6 mm.



1, 2. *Chione sechurana*. 3. *Modiolus nonuranus*. 4. *Modiolus playasensis*.  
5. *Modiolus tumbezensis*. 6-8. *Entodesma sechurana*.



from the anterior end; the dorsal margin is straight with a long, narrow, ligamental groove in the middle which does not extend under the beaks or to the posterior extremity; anterior end, obliquely rounded; the ventral margin is straight and if it be extended with the dorsal margin would meet together at an angle of about 18 degrees; posterior end somewhat expanded, its margin straight, rounding into the dorsal and ventral margins; valves but little convex to compressed, marked with regularly incised growth-lines on the ventral slope but with a smoothish growth-line only on the posterior-dorsal surface; color of shell brown or tan anterior of a line extending from the beaks along the anterior side of the umbonal slope, becoming greenish to olive-colored and minutely flecked with chocolate markings on the posterior side. Length 44.50 mm., height 21.50 mm., semidiameter 4.50 mm.  
 " 41.00 mm., " 18.50 mm., " 4.25 mm.

A small, thin species, inhabiting the tidal mud flats of the mouth of the Tumbez River. It is distinguished from the equally thin-shelled *M. speciosus* Dunker by its much smaller size and wider posterior portion.

**Modiolus (Brachydontes) playasensis** n. sp. Plate 1, fig. 4.

Playas, Santa Elena, Ecuador (Olsson), type 164617 ANSP.; paratypes in Olsson collection.

Shell about 20 mm. long, medium-elongate, of a brownish color, pale on the anterior portion and darker on the posterior; beaks nearly terminal and usually white; the ventral side, excavated or slightly contracted; a fairly pronounced, curved umbonal slope; posterior end rounded, evenly rounded above; dorsal margin arched to straight; sculpture extends over the whole surface as close-set riblets which are smallest on the anterior portion, coarsest on the umbonal slope; hinge structure variable, there being usually three or four small teeth, below and just in front of the beak, bordered on the posterior side by a small callused platform; the ligamental area is long and narrow, extending from the beak to the end of the dorsal margin; the posterior margin finely crenulated, most strongly so at its upper end; interior purplish.

Length 20.7 mm., width 9 mm., diameter 8.7 mm.

**Veneridae**

**Chione sechurana** n. sp. Plate 1, figs. 1, 2.

Pleistocene at Tric Trac Point near Bayovar, Bay of Sechura in northern Peru, (Olsson), type 164621 ANSP.; paratypes in Olsson collection.



Pilsbry, Henry Augustus and Olsson, Axel A. 1935. "New mollusks from the Panamic Province." *The Nautilus* 49, 16–19.

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