

# On a new species of Orculidae from Turkey

## (Gastropoda, Pulmonata)

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### SYSTEMATIC PART

**Superfamilia Pupilloidea Turton, 1831**

**Familia Orculidae Pilsbry, 1918**

**Genus *Orculella* Steenberg, 1925**

A new sinistral species of the Orculidae from Turkey is described, *Orculella bochudae* spec. nov., and compared to two other sinistral congeneric species.

**Keywords:** Gastropoda, Pulmonata, Orculidae, *Orculella*, Turkey

*Orculella* Steenberg, 1925: 176. Type species (by original designation): *Pupa orientalis* sensu auct. (not L. Pfeiffer, 1861) = *Pupa libanotica* Tristram, 1865 (see Hausdorf, 1996: 11). The type selection has been formalized by Welter-Schultes (2012: 146) under Article 70.3 of the International Code of Zoological Nomenclature (1999).

### INTRODUCTION

The Orculidae of Turkey have been revised by Hausdorf (1996) in a paper that offers an excellent overview on the rich radiation of that family in the country. On species level, little has been changed since then: only two species, *Schileykula attilae* Páll-Gergely, 2010 and *S. maculata* Páll-Gergely & Asami, 2013 were described in addition. Although already recognised as new, two taxa were left undescribed by Hausdorf (1996: 36), due to paucity of material, or, as in this case here, he considered the type locality as unclear since it was collected in river debris. The latter, however, is a misunderstanding, the specimens from the Yanarsu Cayı were collected along the shore of the river, not only in the debris, and the species is supposed to actually live there.

Until today, no additional specimens were recorded, and it seems to be a quite rare or range-restricted species. In order to raise awareness of researchers to this taxon, it is finally described here. It is a left-coiling species; the majority (> 80%) of the Turkish Orculidae taxa are dextral. The sinistral taxa are *S. inversa* Schütt, 1993, *S. trapezensis contraria* Neubert, 1993, *O. heterostropha heterostropha* (O. Boettger, 1905), *O. h. commagenensis* (Neubert, 1988) and *O. menkhorsti sinistrorsa* Hausdorf, 1996.

Abbreviations: NMBE = Natural History Museum, Bern, Switzerland; RMNH = Naturalis, Leiden, The Netherlands; SMF = Naturmuseum Senckenberg, Germany.

***Orculella bochudae* spec. nov.**  
(Figs 1-2)

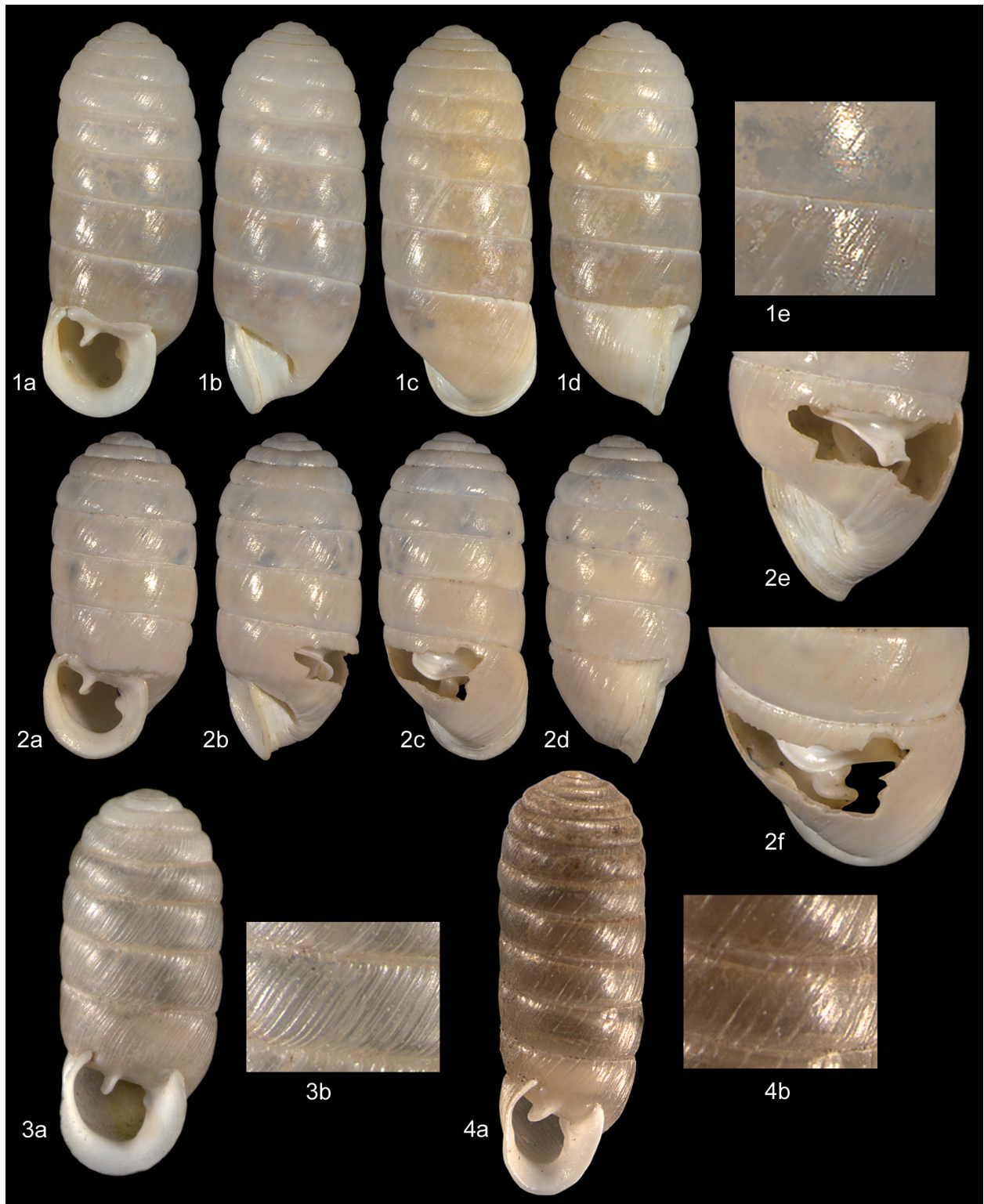
*Orculella* (?) sp. 2 — Hausdorf, 1996: 36.

Type locality. — Turkey, Vilayet Batman, Yanarsu Cayı close to İkiköprü (= 7 km NE Beşiri), leg. R. Kinzelbach, 13.08.1989.

Type material. — Holotype NMBE 549123, paratypes NMBE 549124/2 (all from type locality).

Additional material. — NMBE 549125/1; Turkey, Vilayet Şırnak, debris of the Dicle Nehri (= Tigris river) 4 km NW of Cizre.

Description (Figs 1-2). — Shell of medium size if compared to other *Orculella* species, left coiled, apical part of the shell dome-shaped; protoconch smooth, consisting of 2 whorls; teleoconch whorls covered with regularly arranged low riblets and growth lines; shell colour white, with traces of a brown or corneous periostracum; aperture reinforced by a thick white lip; subangularis a prominent knob, connecting to an elongate parietal ridge; parietalis prominent, continuing as a large waved lamella towards the interior (Fig. 2); supracolumellaris weak, restricted to the apertural region, columellaris visible as strong inwards curving lamella; a well-developed palatalis inferior deep inside the shell in a dorsal position, opposing the waved expansion of the parietalis; umbilicus slit-like, almost closed.



**Figs 1-4.** Sinistral *Orculella* taxa from Turkey. **Figs 1-2.** *Orculella bochudae* spec. nov. **1.** Holotype, NMBE 549123, H 8.28 mm. **2.** Paratype, NMBE 549124, H 6.96 mm. **Fig. 3.** *Orcula doliolum* var. *heterostropha*, lectotype, SMF 54344, debris of the Sarus River in Adana, H 8.1 mm. **Fig. 4.** *Orculella menkhorsti sinistrorsa*, holotype, RMNH 87271, H 8.9 mm. All shells  $\times 8$ , details of shell sculpture not at scale.



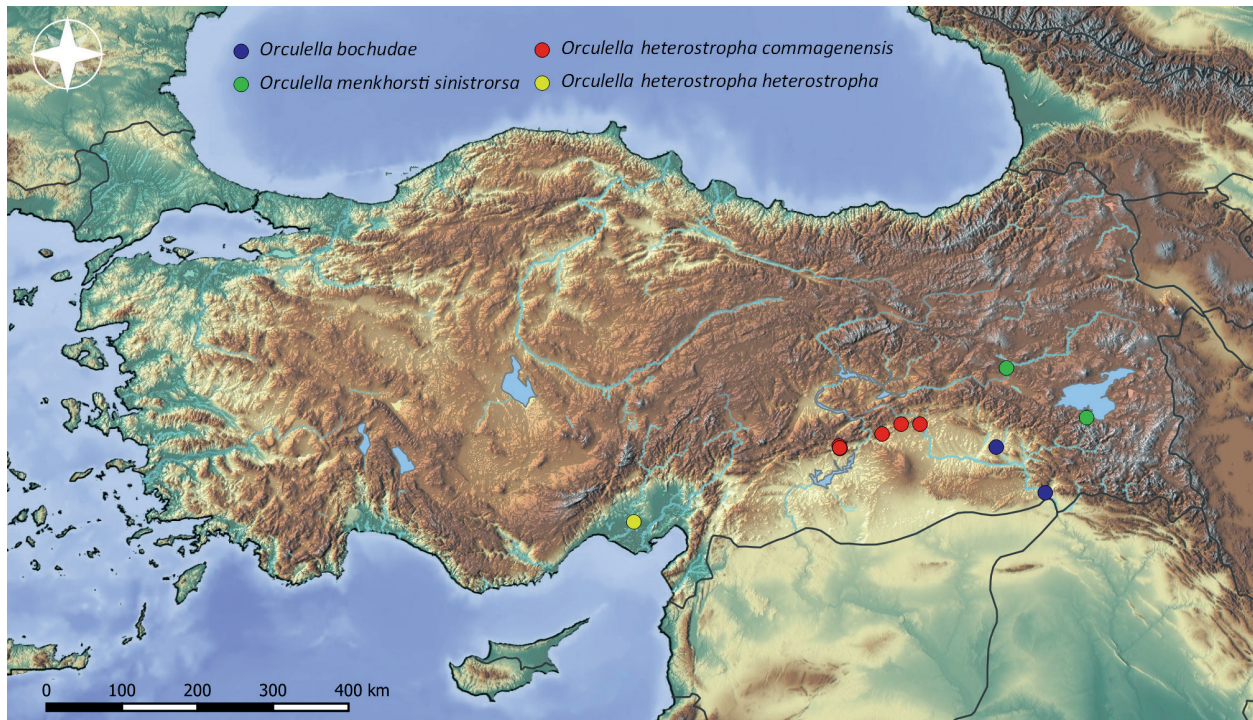


Fig. 5. Distribution map of the four sinistral *Orculella* taxa in Turkey.

Measurements. — Holotype: H 8.28 mm.

Etymology. — This species is dedicated to MSc. Estée Bochud, NMBE, acknowledging her enthusiasm for molluscs and her excellent shell photographs, which she produced during the last years in collaboration with the author.

Differential diagnosis. — *Orculella bochudae* spec. nov. differs from the neighbouring left-coiling species *O. heterostropha* (O. Boettger, 1905) (Fig. 3) by its much smoother shell, its more prominent parietal ridge, and the waved internal part of the parietalis. It differs from *O. menkhorsti sinistrorsa* Hausdorf, 1996 (Fig. 4) from the Van Lake by its much broader and cylindrical shell (not club-shaped like in *sinistrorsa*), the much smoother teleoconch surface, the more prominent columellaris and the waved parietalis.

Distribution. — So far, this species is only known from the two localities mentioned.

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