

A new freshwater snail from the Beyşehir Lake in South-west Anatolia (Gastropoda: Prosobranchia: Hydrobioidea)

With 13 figures

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Abstract. Description of *Falsipyrghula schuetti* YILDIRIM sp. n. from the Beyşehir Lake in South-west Anatolia, Konya Province, Turkey, followed by a presentation of all species of the genus *Falsipyrghula* RADOMAN hitherto known.

Kurzfassung. Eine neue Süßwasserschnecke vom Beyşehir-See in Südwestanatolien (Gastropoda: Prosobranchia: Hydrobioidea). – Beschreibung von *Falsipyrghula schuetti* YILDIRIM sp. n. vom Beyşehir-See in Südwest-Anatolien, Provinz Konya, Türkei; gefolgt von einer Übersicht über alle bisher bekannten Arten der Gattung *Falsipyrghula* RADOMAN.

The aim of this paper is the description of a new freshwater prosobranch snail from the Beyşehir Lake, the greatest lake of the South-west Anatolian Sea basin (Göller bölgesi). This occasion is used for a presentation of all freshwater snails of the genus *Falsipyrghula* RADOMAN, living and fossil in Near East, mainly in Turkey.

***Falsipyrghula schuetti* YILDIRIM sp. n.**

Diagnosis: A very small species of the genus *Falsipyrghula* RADOMAN 1973, which is characterized by two keels and a rather broad, small shell.

Description: Shell conical with a relatively short spire; about 4 whorls, fastly increasing, with a deeply impressed suture, the embryonal whorls smooth, the following whorls with two marked keels: the upper around the periphery, the second under the periphery, scarcely weaker than the first; the surface of the shell somewhat rough by increasing stripes; aperture not thickened, ovoid and modified by the keels; narrowly umbilicated. Operculum and anatomy unknown. Dimensions (of the type shell, in mm): Height = 2,0; breadth = 1,5; height = breadth of the aperture = 0,8.

Type locality and material: Ditches near Kirali at the East shore of the Beyşehir Lake in Konya Province, Turkey. Holotype in Senckenberg-Museum Frankfurt/Main, Germany: SMF 320611. Paratypes: Staatliches Museum für Tierkunde Dresden, 5 shells; Naturhistorisches Museum Wien, 5 shells; further paratypes in the collection of the Süleyman Demirel Üniversitesi, Su Ürünleri Fakültesi, Eğirdir. The shells were found during a joint excursion of both authors at 29.06.1994 at the type locality together with the fauna herebelow mentioned.

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The circumstances at the type locality point to a recent species. Nevertheless, no living animals were found. So it can not be excluded that the new species is a subfossil one.

The other species found at the type locality: *Prosobranchia*: *Viviparus contectus* (MILLET 1813); *Valvata piscinalis* (O.F. MÜLLER 1774); *Valvata cristata* (O.F. MÜLLER 1774); *Theodoxus heldreichi* (MARTENS 1879); *Bithynia pseudemmericia* SCHÜTT 1965; *Falsipyrghula beysehirana* (SCHÜTT 1965); *Falsipyrghula carinata* (RADOMAN 1983); *Graeco-anatolica lacustris* (RADOMAN 1978). – Pulmonata: *Oxyloma elegans* (RISSO 1826); *Planorbis cornutus* (LINNAEUS 1758); *Planorbis planorbis* (O.F. MÜLLER 1774); *Radix auricularia* (LINNAEUS 1758); *Stagnicola palustris* (O.F. MÜLLER 1774); *Galba truncatula* (O.F. MÜLLER 1774); *Gyraulus piscinarum* BOURGUIGNAT 1856. – Bivalvia: *Unio pictorum* (LINNAEUS 1758); *Unio elongatulus eucirrus* BOURGUIGNAT 1860; *Pisidium amnicum* (O.F. MÜLLER 1774); *Pisidium subtruncatum* MALM 1855; *Pisidium milium* HELD 1856; *Pisidium nitidum* JENYNS 1832; *Pisidium annandalei* (PRASHAD 1926); *Pisidium personatum* MALM 1855.

Differentiation: This is the only species of *Falsipyrghula* with two keels in a special position on its shell, as to see on the table. *F. sieversi* and *F. ghabensis* have also two keels, but in another position along the suture; and the fossil *F. shadini* has another shape of the shell. The differentiation to the other keeled freshwater snails in the Middle East is to see from the table.

This is the 12th sequence of a series of publications for the investigation of neogene freshwater basins in Anatolia. – 11th sequence: *Geologica et Palaeontologica* 31: 275–284. Marburg.

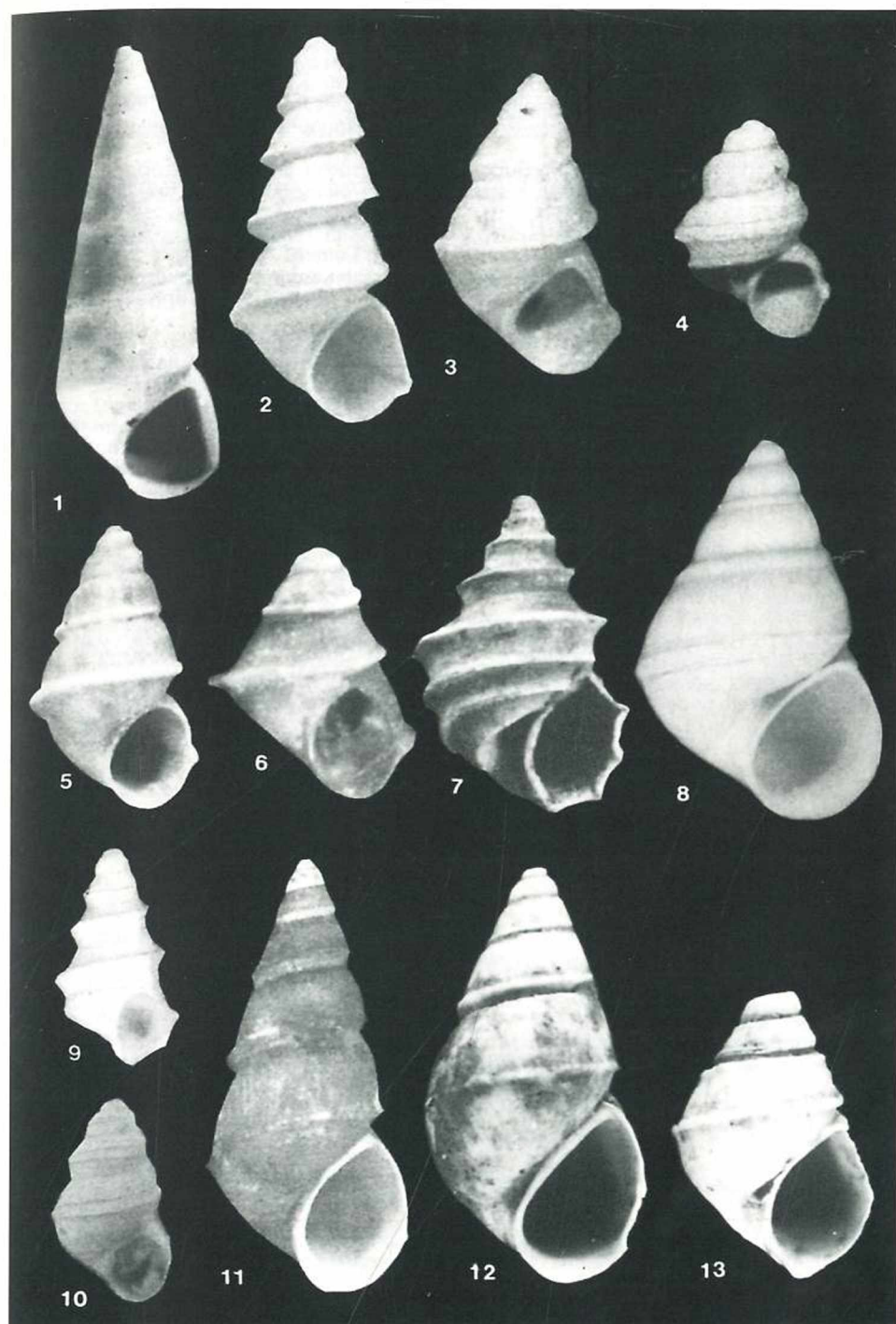
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References

- AKRAMOWSKI, N. N. (1956): Pleistozenowy presnowodny molluski odnogo pestschanogo karera w okrestnostjach Leninakana. – *Iswestija Akademii Nauk Armjanskoi SSR* 9 (1): 81–90. Erevan.
- BLANCKENHORN, M. (1897): Zur Kenntniss der Süßwasserablagerungen und Mollusken Syriens. – *Palaeontographica* 44: 71–144, Taf. 7–10. Stuttgart.
- BOETTGER, O. (1881): Diagnoses molluscorum novorum Transcaucasiae, Armeniae et Persiae. – *Nachrichtsblatt der deutschen malakozologischen Gesellschaft* 13 (9): 117–129. Frankfurt a. M.

Table 1.

Fig. 1: *Falsipyrghula pfeiferi* (WEBER 1927), ×9; Turkey: Eğirdir Gölü: Eğirdir town; recent. – Fig. 2: *Falsipyrghula beysehirana* (SCHÜTT 1965), ×10; Turkey: Beyşehir Gölü: Beyşehir town; recent. – Fig. 3: *Falsipyrghula carinata* (RADOMAN 1983) [Kirelia], ×12; Turkey: Beyşehir Gölü: Kireli village; recent. – Fig. 4: *Falsipyrghula schuetti* YILDIRIM sp. n., holotype, ×15; Turkey: Beyşehir Gölü, ditches near Kireli village; recent (?). – Fig. 5: *Falsipyrghula osmana* (BUKOWSKI 1930), ×12; Turkey: Burdur Gölü: Burdur town; quaternary sediments. – Fig. 6: *Falsipyrghula bakhtarana* SCHÜTT & MANSOORIAN in press, ×12; Iran: Province Bakhtaran = Kermanshahan; recent. – Fig. 7: *Falsipyrghula quimplex* (SCHÜTT 1991), holotype, ×8; Turkey: Erzurum: Horasan: Sand pit at the way to Kars; Plio-/Pleistocene sediments. – Fig. 8: *Falsipyrghula sieversi* (O. BOETTGER 1881), ×13; Turkey: Erzurum: Yayladag, Pasinler basin; Early Pleistocene. – Fig. 9: *Falsipyrghula shadini* (AKRAMOWSKI 1956), ×12; Turkey: Erzurum: Yayladag, Pasinler basin; Early Pleistocene. – Fig. 10: *Falsipyrghula* sp., ×12; Turkey: Titkir, 23 km W Erzurum, Late Pliocene sediments. – Fig. 11: *Falsipyrghula barroisi* (DAUTZENBERG 1894), ×10; Israel: Jordan: Dalhamia dam; recent. – Fig. 12: *Falsipyrghula rabensis* (BLANCKENHORN 1927), ×10; Syria: Nahr el-Asi, Orontes, 12 km S Cisir as-Sugur; Late Pleistocene. – Fig. 13: *Falsipyrghula ghabensis* SCHÜTT 1988, ×10; Syria: Nahr el-Asi, Orontes, 12 km S Cisir as-Sugur; Late Pleistocene.



- BUKOWSKI, G. (1930): Uwagi dotyczące utworów ladowych w okolicy jeziora Buldur w Azji Mniejszej. (Bemerkungen über die Binnenablagerungen in der Umgebung des Buldur Göl in Kleinasien). – Rocznik Polskiego Towarzystwa Geologicznego. Annales de la Société Géologique de Pologne (1929) **6**: 73–90. Kraków.
- DAUTZENBERG, P. (1894): Liste des mollusques terrestres et fluviatiles recueillis par M. Th. Barrois en Palestine et en Syrie. – Revue Biologique de Nord France **6**: 329–354. Lille.
- RADOMAN, P. (1983): Hydrobioidea a Superfamily of Prosobranchia (Gastropoda), I Systematics. – Serbian Academy of Science and Arts, Monographs **547** (57): 1–256. Beograd.
- SCHÜTT, H. (1965): Zur Systematik und Ökologie türkischer Süßwasserprosobranchier. – Zoologische Mededelingen **41** (3): 43–72, Taf. 1. Leiden.
- SCHÜTT, H. (1988): Ergänzungen zur Kenntnis der Molluskenfauna oberpliozäner Süßwasser-Konglomerate Syriens. – Archiv für Molluskenkunde **118** (4/6) (1987): 129–143. Frankfurt a. M.
- SCHÜTT, H. (1990): Die pleistozänen Mollusken dreier pisidischer Salzseen. – Mitteilungen der deutschen malakozoologischen Gesellschaft **46**: 15–24. Frankfurt a. M.
- SCHÜTT, H. (1991): Fossile Mollusken dreier anatolischer Ovas. – Archiv für Molluskenkunde **120** (4/6) (1989): 131–147. Frankfurt a. M.
- SCHÜTT, H. (1997): Altpleistozäne Mollusken im Becken von Pasinler bei Erzurum, Türkei. – Geologica et Palaeontologica **31**: 275–284. Marburg.
- WEBER, A. (1927): Eine neue *Pyrgula*. *Pyrgula pfeiferi* n. sp. – Zoologischer Anzeiger **70**: 313–314. Berlin.

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