

ISSN 0966 2235

LATISSIMUS

NEWSLETTER OF THE
BALFOUR-BROWNE CLUB



Number Fifty Nine

April 2025

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NEW DATA ON DYTISCIDAE FROM KAZAKHSTAN

Sergey K Ryndevich, Alexander P Kashtalian

The study of aquatic beetle fauna in the southern and eastern Kazakhstan has yielded several interesting findings including that of *Dytiscus thianschanicus* (Gschwendtner, 1923) (Figs 1 and 2).

Dytiscus thianschanicus - Kazakhstan, Mangystau region, Mangyshlak Peninsula, plateau Ustyurt, vill. Sayotis, after rain in the afternoon, 20.VI.2024, leg. A. P. Kashtalian, 1 specimen; Kazakhstan, Jetisu reg., Sarkand distr., near vill. Lepsi, 46.381464°N, 78.950389°E, lake Balkhash, littoral, 30.VI.2024, leg. A. P. Kashtalian, 1 specimen. Both specimens are immature. This species is recorded for the first time for Kazakhstan. *D. thianschanicus* is known from Afghanistan, India (Kashmir), southern European Russia, Tajikistan, and Turkey (Kirejchuk 2001; Nilsson & Hájek, 2024). It differs from the closely related *Dytiscus circumflexus* Fab., 1801, which has the side of the pronotum weakly indented (Fig. 3), sometimes best seen in side view. An immature specimen of *D. thianschanicus* was found together with *Graphoderus austriacus* (Sturm, 1834) from the Ustyurt plateau on the ground after rain. The Plateau Ustyurt is a clay desert, and it is noteworthy that the collection site was very far from any sources of water. The specimen of *D. thianschanicus* (body length 32 mm) from Balkhash has damage to the elytra (Fig. 1). It was collected in brackish water among rare macrophytes in the littoral zone of the lake (Fig. 4). Lake Balkhash is located in the eastern part of Kazakhstan and sits in the Balkhash-Alakol Basin. It is an endorheic semi-freshwater lake. The salinity of the east half of the lake resembles sea water, with 3.5–6 g sodium chloride per litre. *Colymbetes semenowi* (Jakovlev, 1896) was also found with *D. thianschanicus*. Some species of diving beetle were taken on the edge of Balkhash where artesian waters arise (Fig. 5). Also in the Kyzylkum Desert *Cybister lateralimarginalis torquatus* (Fischer von Waldheim, 1829) and *Colymbetes semenowi* were caught at light.

Colymbetes semenowi – Kazakhstan, Jetisu reg., Sarkand distr., near vill. Lepsi, where artesian waters emerge, 46.560067°N, 79.43834°E, leg. A. P. Kashtalian, 1 specimen; Kazakhstan, Jetisu reg., Sarkand distr., near vill. Lepsi, 46.381464°N, 78.950389°E, lake Balkhash, littoral, 30.VI.2024, leg. A. P. Kashtalian, 1 specimen; Kazakhstan, Kyzylkum Desert, Turkistan reg., Otyrar distr., Koksaray, at lighth, 8-12.V.2024 leg. A. P. Kashtalian, 2 specimens; same but 12-13.V.2024, leg. A. P. Kashtalian, 1 specimen.

Cybister lateralimarginalis torquatus – Kazakhstan, Kyzylkum Desert, Turkistan reg., Otyrar distr., Koksaray, at lighth, 25.V.2024, leg. A. P. Kashtalian, 2 specimens; Kazakhstan, Jetisu reg., Sarkand distr., near vill. Lepsi, where artesian waters emerge, 46.560067°N, 79.43834°E, 30.VI.2024, leg. A. P. Kashtalian, 1 specimen. The third and fourth records from Kazakhstan (Ryndevich, 2023).

Dytiscus circumflexus – Kazakhstan, Jetisu reg., Sarkand distr., near vill. Lepsi, where artesian waters emerge, 46.560067°N, 79.43834°E, 30.VI.2024, leg. A. P. Kashtalian, 2 specimens.

KIREJCHUK A G 2001. Family Dytiscidae (imago). In: *Keys to freshwater invertebrates of Russia and adjacent lands* 5 St-Petersburg. Nauka 130–227, 516–685 [in Russian].

NILSSON A N & HÁJEK J 2024: Catalogue of Palearctic Dytiscidae (Coleoptera). Internet version accessed 1 January 2024

https://waterbeetles.eu/documents/PAL_CAT_Dytiscidae_2024.pdf

RYNDEVICH S K 2023. *Cybister lateralimarginalis torquatus* (Fischer von Waldheim) in Kazakhstan. **Latissimus** 54 9-10.



Figs 1–3 Habitus of *Dytiscus*:
 1 – dorsal side of *D. thianschanicus*;
 2-3 – right side of pronotum;
 2 – *D. thianschanicus*;
 3 – *D. circumflexus*.
 Arrow shows weak curvature of the edge

Figs 4–5 Habitats of diving beetles:
 4 the coast of Balkhash;
 5 where artesian waters emerge

Received August 2024

QUATERNARY ENTOMOLOGY BIBLIOGRAPHY FROM TUTAKHAMUN TO SCUNTHORPE

Paul Buckland notes an upgrade of the bibliography in October 2024 to 4,746 entries.

BUCKLAND P C, BUCKLAND P, COOPE G R & SADLER J P 2024. A bibliography of Quaternary Entomology. <http://www.bugscep.com/gbib.html>