

# New data on the distribution of some species of *Agabus* LEACH and *Ilybius* ERICHSON (Coleoptera: Dytiscidae)

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## Abstract

New data on the distribution of nine species of *Agabus* LEACH and one species of *Ilybius* ERICHSON are provided.

**Key words:** Insecta, Coleoptera, Dytiscidae, *Agabus*, *Ilybius*, faunistics.

## Introduction

During studying the dytiscid collection of the Naturhistorisches Museum Wien (NMW) I have discovered new data on the distribution of some *Agabus* LEACH and *Ilybius* ERICHSON species, which are presented here. Also the material of the author's collection (CHS) and the collections of O.N. Kabakov, St.-Petersburg, Russia (COK) and of the Zoological Institute of the Russian Academy of Sciences, St.-Petersburg, Russia (ZISP), Dr. A.G. Kirejtshuk, were used.

I am grateful to Dr. M.A. Jäch for the possibility to work with the dytiscid collection of the NMW, to Dr. A.N. Nilsson for help with identification of *A. costulatus* (MOTSCHULSKY) and *A. aequalis* SHARP, O.N. Kabakov and Dr. A.G. Kirejtshuk for loan of the beetles, and all colleagues who presented the beetles for my collection. Also I thank Dr. D. Bilton for linguistic review of the manuscript.

## Faunistic notes

### *Agabus aequabilis* (GSCHWENDTNER)

China: Sichuan: "CH, Sichuan, right bank / of Niuzhihe Riv., E of Pusiun Village / 2200-2800 m, 15-16.6.2000 / Belousov, Kabak, Davidian" – 1 ♀ (CHS). First record for Sichuan.

The species was recorded from Xinjiang Province of China and Uzbekistan.

### *Agabus aequalis* SHARP

China: Gansu: "China, Alashan' / 15-30.9.1901 / exp. Kozlov – Roborovskiy" [in Cyrillic script] – 1 ♀ (ZISP). First record for Gansu.

The species was recorded from Transbaikalia, Primorskiy Kray, South Sakhalin, and Jilin and Sichuan Provinces of China.

### *Agabus biguttatus* (OLIVIER)

Turkmenistan: "Turkmen.: Krasnovodsk / W-KopetDagh, 2.5.1993 / 5 km NE Kara Kala (21) / leg. Dostal & Cate" – 1 ♀ (NMW); "Turkmenistan, Kop / petdag Schutz-Geb / Gura-Choudan / Sharlouk, 17.04.95" – 1 ♂, 9 ♀ ♀ (NMW). First record for Turkmenistan.

Uzbekistan: "Uzbekistan, 28.IV-3.V.95 / Kugitang Mts., Pandzhob / Karasjov V. leg." – 1 ♂ (CHS). First record for Uzbekistan.

India: Himachal Pradesh: "NW Indien 1995 / Himach. Pradesh / 2000 m, 10.6. / leg. A. Stauder", "Kullu Valley / Nr. 14-5" – 1 ♂ (NMW); "India: Himachal Pr. / ca. 20km N Kulu / Kulu val., Naggarr. riv. / 12.6.1996, 1800 m / leg. A. Stauder (1/96-164)" – 1 ♂ (NMW).

The species is widespread in Europe (except the north), North Africa, Asia Minor, and Central Asia. It is known also from Pakistan and Kashmir. ZAITZEV (1953) recorded the species from India under a question mark. The present record confirms that *A. biguttatus* occurs in North India.

### ***Agabus biguttatus* (THOMSON)**

Austria: "Zirbitzkogel / Styr. R. F. Lang" – 1 ♂ (NMW). First record for Austria.

However, this remarkable record needs to be confirmed. *Agabus biguttatus* is a northern species, which is distributed in North, Central and East Europe, Siberia, and Mongolia. In Central Europe it was known only from northern Germany.

### ***Agabus bipustulatus* (L.)**

Kyrgyzstan: "Kyrgyzstan / Sussamyr Valley, riv. / 30.5.1995, 2200 m / leg. Dolin (17)" – 3 exs. (NMW); "Turk. Sussamyr-Gb. / Ketmen-Tjube / 6.06. Coll.Hauser" – 1 ex. (NMW). First record for Kyrgyzstan.

Tadzhikistan: "Mts. Karateghin / Baldschuan / 924 m F. Hauser 1898" – 7 exs. (NMW); "Prov. Kuliab / Ak-sou-Thal / F.Hauser 1898" – 8 exs. (NMW). First record for Tadzhikistan.

This is a widespread Palaearctic species, which was recorded in Central Asia from Kazakhstan, Iran, Afghanistan, Uzbekistan, and from Xinjiang Province of China. The present record fills a gap in the distribution of *A. bipustulatus* among these areas.

### ***Agabus conspersus* (MARSHAM)**

Kyrgyzstan: "Kyrgyzstan, Kegety / valley, 2800 m / Kyrgyzski Mt. / 8.06.1994 W. Dolin" – 1 ex. (NMW); "Kyrgyzstan: 22.5.1995 / 12 km S Sosnowka, 1600 m / Karabalta-Gorge / leg. Dolin (16)" – 6 exs. (NMW). First record for Kyrgyzstan.

Tadzhikistan: "Mts. Karateghin / Baldschuan / 924 m F. Hauser 1898" – 4 exs. (NMW); "Prov. Kuliab / Ak-sou-Thal / F. Hauser 1898" – 11 exs. (NMW); "Mts. Karateghin / Sary-pul / 1482 m F. Hauser 1898" – 4 exs. (NMW). First record for Tadzhikistan.

Turkmenistan: "Turkmen.: Aschkehabad / W-Kopet Dagh, 1300 m / 2.-3.5.1993 (22) / leg. Dostal & Cate", "15 km S Seivan / Tutli Kala-Pass" – 2 exs. (NMW); "Turkmenistan / Annau distr. / Giaurs env. / 1.11.1994, Andreev" – 7 exs. (NMW); "Turkmenistan: 27.4.1995 / Kuhitangtau, E. Karljuk / Keinar-Baba riv. / leg. Dolin (9)" – 25 exs. (NMW); "Turkmenistan: 30.4.1995 / Kuhitangtau, 1100 m / Darej-Dere plateau / leg. Dolin (11)" – 2 exs. (NMW); "Turkmenistan: 2.5.1995 / Kuhitangtau, 1450 m / Umg. Chodzhapil / leg. Dolin (13)" – 6 exs. (NMW). First record for Turkmenistan.

Kazakhstan: "Dsungaria / Borochoro-Gb. / Coll. Hauser 6.05" – 1 ex. (NMW). First record for Kazakhstan.

Lebanon: "Appl / Beirut 1878" – 1 ex. (NMW). First record for Lebanon.

In Asia Minor and Central Asia the species is widely distributed. The new records fill some gaps in it.

### ***Agabus costulatus* (MOTSCHULSKY)**

Kazakhstan: "21.08.94 Dzhungarskiy Alatau / plateau in the upper reaches of / Ortabien River, warm puddle / leg. Frolov A. V." [in Cyrillic script] – 4 exs. (CHS); "Kasachstan [!]: S-Altaj / 20.6.1994 / Serebrjanka / leg. Dolin (0)" – 34 exs. (NMW); "N.O.Kasachstan [!] / S. Altaj, Sewernoje / 20-25.06.1994 / leg. Dolin, Andreev" – 2 ♂♂, 1 ♀ (NMW); "East Kasachstan. [!] Distr. / env. Syrianovsk / 1000-1200 m 6-10.07.93 / R.Andreeva" – 2 ♀♀ (NMW). First record for Kazakhstan.

Kyrgyzstan: "Kirg. Issyk-Kull reg. / Kara Saj env. / 18-22.7.1991 / I.Jenis leg." – 2 ♀♀ (NMW). First record for Kyrgyzstan.

This East Palaearctic species was recorded from the Altay, East Siberia, Primorskiy Kray, and Mongolia (mountain area). The new record extends its known distribution to the southwest.

### ***Agabus solskii* JAKOVLEV**

Afghanistan: "Afghanistan / Behsud, 2800 m / 10.7.1971 / leg. Kabakov O. N." – 1 ♀ (COK). First record for Afghanistan.

The species was already known from the territories bordering Afghanistan: Iran, Turkmenistan, Uzbekistan, and Pakistan.

### ***Agabus zimmermanni* SCHOLZ**

Greece: "Griechenland 1991 / Ebrosebene (2) / leg. Jäch 16.V." – 2 ♀♀ (NMW); "Griechenland 1991 / Ebrosebene (2) / leg. Schödl 16.V." – 1 ♀ (NMW). First record for Greece.

The species was previously recorded from Bulgaria, Romania, Ukraine, and Turkey.

### ***Ilybius crassus* THOMSON**

Bosnia Hercegovina: "Bosnien" – 1 ♂ (NMW). First record for Bosnia.

Ukraine: "20.VII.96 Zakarpat'e [Zakarpatskaya Prov.] / tourist hostel 'Dragobrat', H=1350 m / stream" [in Cyrillic script] – 1 ♂ (CHS); "20.VII.96 Zakarpat'e / tourist hostel 'Dragobrat', lake / H=1350 m / leg. Shaverdo" [in Cyrillic script] – 1 ♀ (CHS); "24.VII.96 Zakarpat'e / northern slope of Svidovets Mt./ H=1200 m, lake / leg. Shaverdo H." [in Cyrillic script] – 10 exs. (CHS). First record for the Ukraine.

This boreo-montane species is distributed in North, Central and East Europe, and West Siberia. The record from Bosnia indicates the most southern point of its distribution and needs to be confirmed.

## **Zusammenfassung**

Neue Verbreitungsdaten von neun *Agabus*-Arten und einer *Ilybius*-Art werden publiziert.

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