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Distribution of the Silphidae (Coleoptera) in the Baikal Region

Rozšíření brouků čeledí Silphidae (Coleoptera) v okolí Bajkalu

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Abstract. A list of 25 species of Silphidae of the Baikal Region is given. Records of 23 of them are supported by voucher specimens. *Nicrophorus quadraticollis* Portevin, 1903 is a new species for the fauna of Cisbaikalia; *N. vestigator* Herschel, 1807 is new for the fauna of Transbaikalia. Additional material of *Necrodes littoralis* (Linnaeus, 1758), *Silpha carinata* Herbst, 1783, *S. perforata* Gebler, 1832, and *Thanatophilus sinuatus* Fabricius, 1775 represent the first records from West Siberia.

INTRODUCTION

The family Silphidae is represented by 125 species (one of which is a *nomen dubium*) and subspecies in two subfamilies and 15 genera in the Palaearctic region (Růžička & Schneider 2004). In Russia, the family is represented by 54 species and subspecies in two subfamilies and 11 genera, of which 33 species and subspecies in two subfamilies and nine genera are indicated for Eastern Siberia (Shavrin 2006). Thus, the fauna of these vast regions is relatively well known. This paper presents a short history of the study of the Silphidae in the Baikal Region (within the administrative borders of the Irkutsk and Chita Territories, Republic of Buryatia) and a list of species with new records. Additional records from the adjacent territories in Siberia and Mongolia are also given.

The first record of a carrion beetle from the region was by Gebler (1832) who described *Aclypea daurica* from Transbaikalia. Motschulsky (1860) described *Thanatophilus latericarinatus* (as *Oiceoptoma*) from "Amur", *T. baicalicus* (in *Oiceoptoma*), *Nicrophorus orientalis* (type locality: "dans les parties orientales de la Daourie"), and *N. sibiricus* (type locality: "Sibérie orientale"); the last three names were later synonymized with *T. trituberculatus* (Kirby, 1837), *N. dauricus* Motschulsky, 1860, and *N. investigator* Zetterstedt, 1824, respectively. Reitter (1895) described *N. sylvaticus*, now a junior synonym of *N. vespilloides* Herbst, 1783. Almost all these previous records were combined with new data for a total of 10 species from Transbaikalia and Irkutsk Territory in the catalogue by Yakobson (1910). Portevin (1932) described the subspecies *Silpha perforata mandli* and recorded *Thanatophilus lapponicus* (Herbst, 1793) from Transbaikalia.

In the second half of the 20th century, Berlov (1977) treated the necrophilous beetles of the Irkutsk Territory and recorded 20 species, based on both old and new data. Emetz (1977) and Lafer (1989) clarified distributional data from the Far East of Russia including the Baikal Region. Schawaller recorded *Silpha obscura obscura* Linnaeus, 1758 (Schawaller 1980), five

species in the genus *Thanatophilus* Leach, 1815 (Schawaller 1981) and three species of the genus *Aclypea* Reitter, 1885 (Schawaller 1996) from the Baikal Region. Nikolaev recorded silphids from Mongolia and adjacent territories of Siberia (Nikolaev 1989), summarized the data on the genus *Aclypea* from the entire USSR (Nikolaev 1990), and clarified silphid distributional data for Kazakhstan and Russia including the Baikal region (Nikolaev & Kozminykh 2002). Růžička (2002) recorded three species of the Silphinae from the Baikal Region: *Aclypea daurica* (Gebler, 1832)*, Silpha obscura obscura* Linnaeus, 1758, and *S. perforata* Gebler, 1832. Additional records of the Silphidae can be found in various faunistic papers by Irkutsk entomologists (Berlov & Tomilova 1980, Bessolizyna & Shilenkov 1980, Dubeshko & Malikova 1989, Berlov 1999, Berlov & Berlov 1999, Shavrin et al. 2001).

MATERIAL AND METHODS

This paper is based on specimens collected by the author during 1989-2007 in the Baikal Region, as well as on specimens from other institutional and private collections. The depositories are abbreviated as follows: cF – private collection of D. Fominykh, Krasnodar; cS – private collection of A. Shavrin, Irkutsk; cSh – private collection of V. Shilenkov, Irkutsk; cA – private collection of A. Anistschenko, Madrid; cB – private collection of E. Berlov, Irkutsk, SIPBP – collection of the Siberian Institute of Physiology and Biochemistry of Plants, Irkutsk (T. Agafonova, A. Pleshanov); ISU – collection of Irkutsk State University, Irkutsk (L. Dubeshko, V. Shilenkov).

The list of species is based on both literature records and new material. Names follow the classification of the catalogues by Růžička & Schneider (2004) and Sikes et al. (2002). Genera and species are listed in alphabetic order. Within provinces, records are sorted chronologically. All species that I expect to occur in the Baikal Region are written in square brackets [ ]. All specimens were indentified by the author, E. Berlov (Irkutsk) and V. Shilenkov (Irkutsk).

RESULTS

Silphidae Latreille, 1807

Silphinae

[***Aclypea daurica*** (Gebler, 1832)]
Amur Territory: Elimgan, 29.v-7.vi.1991, 1 spec., without collector's name (cB).
Distribution: East Siberia, Far East, Mongolia, China. Records from the Baikal Region: Gebler (1832), Yakobson (1910), Emetz (1977), Schawaller (1996), Lafer (1989), and Růžička (2002).

Aclypea opaca (Linnaeus, 1758)
Irkutsk Territory: Ust'-Udinskiy dist., Birit, 8.vi.1974, 1 spec., V. Shilenkov leg. (cSh); Khuzhir, 23.vi.1961, 9 spec., A. Rozhkov leg. (SIPBP); Zuy, 20.vi.1957, 1 spec., Dzholova leg. (SIPBP); same locality, 28.vi.1957, 1 spec., Dzholova leg. (SIPBP); Biliktuy, 31.vii.1987, 1 spec., Dzholova leg. (SIPBP); Angarsk, 21.vii.1955, 1 spec., Dzholova leg. (SIPBP); same locality, 17.vii.1956, 2 spec., Dzholova leg. (SIPBP); same locality, 3.viii.1957, 2 spec., Dzholova leg. (SIPBP); same locality, 25.vi.1955, 2 spec., E. Polyakova leg. (ISU); Meget, 15.viii.1958, 1 spec., without collector's name (ISU); Irkutsk, 14.vi.1957, 7 spec., Dzholova leg. (SIPBP); same locality, 14.vi.1960, 4 spec., Dzholova leg. (SIPBP); same locality, 25.v.1974, 1 spec., E. Berlov leg. (cB); same locality, 2.viii.1969, 1 spec., E. Berlov leg.

(cB); same locality, Kaya, 20.vi.1929, 1 spec., without collector's name (ISU); Sukhovskaya, 14.vi.1957, 3 spec., Dzholova leg. (SIPBP); same locality, 24.vi.1957, 2 spec., Dzholova leg. (SIPBP); Shelekhov, 20.vii.1989, 2 spec., A. Shavrin leg. (cS); same locality, 3.vi.1992, 1 spec., A. Shavrin leg. (cS); same locality, 10.vi.1992, national garden territory "Energetic", 1 spec., A. Shavrin leg. (cS); Shelekhovskiy distr., Podkamennaya, vi.1985, 2 spec., V. Shilenkov leg. (cSh); same locality, 26.iv.1974, 2 spec., V. Shilenkov leg. (cSh); same locality, 25.v.1990, 1 spec., V. Shilenkov leg. (cSh); same locality, 15.vii.1990, 1 spec., V. Shilenkov leg. (cSh); same locality, 10.v.1992, 2 spec., V. Shilenkov leg. (cSh); same locality, 9.v.1999, 2 spec., V. Shilenkov leg. (cSh); same locality, 2.vi.2001, 1 spec., V. Shilenkov leg.(cSh); Khamar-Daban Mts., valley of Babkha River, 15-18.vii.1991, 2 spec., V. Vladimirov leg. (cS); same locality, Tibelti, 21.v.1956, 3 spec., A. Rozhkov leg. (SIPBP); same locality, 25.v.1956, 1 spec., A. Rozhkov leg. (SIPBP); same locality, Bystroe, 24.vi.1955, 1 spec., A. Rozhkov leg. (SIPBP); same locality, valley of Snezhnaya River, 5.-8.vi.2007, 6 spec., A. Shavrin leg. (cS); **Republic of Buryatia**: Tunkinskiy distr., Arshan, 6.viii.1993, 1 spec., V. Shilenkov leg. (cSh); same distr., Zun-Murino, 7.vii.1992, 1 spec., V. Shilenkov leg. (cSh); same distr., 6 km S Moygoty, 24.viii.2007, 1 spec., A. Shavrin leg. (cS); same distr., Mondy, 26.vii.1973, 1 spec., V. Shilenkov leg. (cSh); Ulan-Ude, 11.viii.1958, 1 spec., Dzholova leg. (SIPBP); same locality, 23.vi.1958, 1 spec., Dzholova leg. (SIPBP); Kumyska, 4.vi.1960, 10 spec., Dzholova leg. (SIPBP); same locality, 30.vi.1958, 1 spec., Dzholova leg. (SIPBP); Ulan-Ude, without date, 1 spec., without collector's name (ISU); Argada, without date, 1 spec., Dzholova leg. (SIPBP); Shishkino, 27.vi.1959, 4 ex., Dzholova leg. (SIPBP); Bichura, 10.vii.1959, 3 spec., Dzholova leg. (SIPBP); Ivolga, 13.vi.1959, 9 spec., Dzholova leg. (SIPBP); same locality, 20.vi.1959, 1 spec., Dzholova leg. (SIPBP); same locality, 27.vi.1959, 1 spec., Dzholova leg. (SIPBP); Zverevo, 23.v.1956, 29 spec., Dzholova leg. (SIPBP); same locality, 23.vi.1956, 4 spec., Dzholova leg. (SIPBP); Kabanskiy distr., Kamensk, 20.vii.1972, 1 spec., Berezovskaya leg. (ISU). Additional material. **Sverdlovsk Territory**: Sverdlovsk [= Ekaterinburg], Kozlovo, 24.vi.1971, 1 spec., E. Berlov leg. (cB); same data, 25.v.1972, 1 spec., E. Berlov leg. (cB); **Republic of Tuva**: valley of Sagly River, 27.vi.1984, 1 spec., without collector's name (cA); **Republic of Khakasia**: Tuzukhsa R., 28.vii.1969, 1 spec., Petrusheva leg. (cSh); **Republic of Sakha (Yakutia)**: Nyurba, 19.viii.1987, 2 spec., Kajmuk leg. (cB).
Distribution: Europe (including Russia), Kazakhstan, Kyrgyzstan, Uzbekistan, Siberia, Mongolia, China (Xizang), North America. Records from the Baikal Region: Yakobson (1910), Emetz (1975), Berlov & Tomilova (1980), Bessolizyna & Shilenkov (1980), Schawaller (1996), and Berlov (1999) (as *Blitophaga*).

Aclypea undata (Müller, 1776)
Irkutsk Territory: Podkamennaya, 17.v.1992, 1 spec., V. Shilenkov leg. (cSh).
Distribution: Europe (including Russia), Turkey, Iran, Kazakhstan, Turkmenistan, East Siberia. Record from the Baikal Region: Schawaller (1996).

Dendroxena quadrimaculata (Scopoli, 1771)
Irkutsk Territory: Nizhneudinskiy distr., 15 km SW Nizhneudinsk, 29.vi.1999, 2 spec., A. Anistschenko leg. (cA); Bolshye Koty, 1 spec., without collector's name (cS); same data, 7.vii.1958, 1 spec., without collector's name (ISU); Slyudyanskiy distr., Staraya Angasolka. 20.vi.2007, 4 spec., D. Fominykh leg. (cF); Khamar-Daban Mts., valley of Snezhnaya River,

5.-8.vi.2007, 1 spec., A. Shavrin leg. (cS); **Republic of Buryatia**: Baikalskiy nature reserve, Rechka Mishikha, 15.vi.1982, 1 spec., Pylaeva leg. (cSh); Barguzinskiy nature reserve, Davsha, 700 m from Baikal lake, 23.vi.1998, 1 spec., T. Ananina leg. (cSh). Additional material. **Krasnoyarsk Territory**: Slavyansk, 1 spec., without date and collector's name (cSh).
Distribution: Algeria, Europe (including Russia), Turkey, Iran, Kazakhstan, Cisbaikalia, North America. Record from the Baikal Region: Berlov (1977) (as *Xylodrepa ?quadripunctata*).

Necrodes littoralis (Linnaeus, 1758)
Irkutsk Territory: Ust'-Udinskiy distr., Srednyaya Muya, 20.-24.viii.1992, 1 spec., A. Shavrin leg. (cS); Irkutskiy distr., Irkutsk, 25.v.1970, 1 spec., E. Berlov leg. (cB); same locality, 2.vii.1973, 1 spec., E. Berlov leg. (cB); same locality, 2.vii.1974, 1 spec., E. Berlov leg. (cB); same locality, night flying on lamp, 2.vii.1977, 1 spec., E. Berlov leg. (cB); same locality, 3.vii.1973, 1 spec., V. Shilenkov leg. (cSh); same distr., Bolshye Koty, vii.1982, 2 spec., V. Shilenkov leg. (cSh); same locality, 17.viii.1991, 2 spec., V. Shilenkov leg. (cSh); Shelekhov, 23.vi.1989, 1 spec., evening flying, A. Shavrin leg. (cS); Baikalsk, 23.vi.-17.vii.1990, 1 spec., D. Nikolaev leg. (cSh). Additional material. **Omsk Territory**: Omsk, 4.ix.1973, 1 spec., E. Berlov leg. (cB); **Tomsk Territory**: Tomsk, 1902, 3 spec., without collector's name (ISU); **Altai Territory**: Barnaul, 11.vi.1904, 1 spec., without collector's name (ISU).
Distribution: Europe (including Russia), Afghanistan, Turkey, Iran, Pakistan, Kazakhstan, Kyrgyzstan, Turkmenistan, Tajikistan, Uzbekistan, India (Uttaranchal), East Siberia, Mongolia, Far East, Korea, China, Japan. Records from the Baikal Region: Berlov (1977) and Berlov & Tomilova (1980). First record from West Siberia.

Oiceoptoma thoracicum (Linnaeus, 1758)
Irkutsk Territory: Zima, 31.v.1953, 2 spec., A. Rozhkov leg. (SIPBP); Olkhon distr., Khara-Khuzhir, valley of Khamney River, 23.vi.1961, 1 spec., A. Rozhkov leg. (SIPBP); same data, 2 ex. (ISU); Sukhovskaya, 25.viii.1957, Dzholova leg. (SIPBP); Talzi, 21.vi.1939, 2 spec., without collector's name (ISU); Angarsk, 24.vi.1939, 1 spec., without collector's name (ISU); Irkutsk, 9.v.1973, 2 spec., carrion, E. Berlov leg. (cB); Irkutsk, Akademgorodok, 1.vi.2006, 1 spec., A. Shavrin leg. (cS); same locality, 9.v.1973, 1 spec., carrion, E. Berlov leg. (cB); same locality, 27.iv.1973, 1 spec., E. Berlov leg. (cB); same locality, Kaya, 26.v.1913, 1 spec., V. Shilenkov leg. (ISU); [Irkutsk] Moy sad [my orchard], 16.vi.1912, 1 spec., S. Rodionoff leg. (ISU); environs of Irkutsk, 17th km of Baikal highway, 16.vii.1994, 1 spec., A. Anistschenko leg. (cA); same data, Vdovino, 18.v.1975, 1 spec., V. Shilenkov leg. (cSh); Irkutskiy distr., valley of Goloustnaya R., Nizhniy Kochergat, 15-19.vii.1991, 1 spec., V. Shilenkov leg. (cSh); Shelekhov, 30.v.1992, 1 spec., A. Shavrin leg. (cS); same locality, 19.viii.1989, 1 spec., A. Shavrin leg. (cS); same locality, 20.viii.1990, 1 spec., A. Shavrin leg. (cS); same locality, 16.v.1991, 1 spec., A. Shavrin leg. (cS); same locality, vii.1988, 1 spec., V. Vladimirov leg. (cS); Bolshye Koty, Sennaya cape, 20-22.vi.1992, 1 spec., A. Shavrin leg. (cS); Baikal, Varnachka cape, 14.vi.1959, 6 spec., without collector's name (ISU); Khamar-Daban Mts., middle flow of Babkha River, 27.vi.2006, 1 ex. (cS); same data, Tibelti, 6.vi.1956, 1 spec., A. Rozhkov leg. (SIPBP); same locality, valley of Malaya Bystraya River, 10.vi.1954, 1 spec., A. Rozhkov leg. (SIPBP); same locality, 13.vi.1954, 36 spec., A. Rozhkov leg. (SIPBP); same locality, 19.vi.1954, 7 spec., A. Rozhkov leg. (SIPBP); same locality, 26.vi.1954, 1 spec., A. Rozhkov leg. (SIPBP); same locality, 21.vii.1954, 22 spec., A. Rozhkov leg. (SIPBP);

Republic of Buryatia: Tunkinskiy distr., Turan, 22.vi.1974, 1 spec., E. Berlov leg. (cB); same distr., Zun-Murino, 6.vi.1974, 1 spec., V. Shilenkov leg. (cSh); Subuktuy, 20.vii.1936, 7 spec., V. Stepanov leg. (ISU); Dzhidinskiy distr., Gudzhirki, tributary of Armak River, 10.vii.1939, 4 spec., Artemyeva leg. (ISU). Additional material. **Altai Territory**: Barnaul, 25.vi.1904, 1 spec., without collector's name (ISU); **Krasnoyarsk Territory**: Boguchanskiy distr., Sosnovka, 10.vi.1972, 1 spec., Verzhuzkiy leg. (cB); Krasnoyarsk, viii.1939, 1 spec., without collector's name (ISU).
Distribution: Europe (including Russia), Turkey, Tajikistan, Kyrgyzstan, Kazakhstan, Turkmenistan, Uzbekistan, West and East Siberia, Mongolia, Far East, Korea, China, Japan, Oriental Region. Records from the Baikal Region: Yakobson (1910) (as *O. thoracicum* subsp. *collare* Er.), Berlov (1977), Berlov & Tomilova (1980) (all as *O. thoracica*), Bessolizyna & Shilenkov (1980) (as *O. thoracica*), Dubeshko & Malikova (1989), Shavrin et al. (2001), and Růžička et al. (2004).

Phosphuga atrata atrata (Linnaeus, 1758)
Irkutsk Territory: Zima, 4.vi.1952, 1 spec., A. Rozhkov leg. (SIPBP); Irkutsk II, 29.vii.1957, 1 spec., Dzholova leg. (SIPBP); Irkutsk, 2.v.1975, 1 spec., E. Berlov leg. (cB); same locality, 2.vii.1975, 1 spec., E. Berlov leg. (cB); same locality, 16.v.1971, 1 spec., V. Shilenkov leg. (cSh); same locality, Vdovino, 15.v.1975, 1 spec., V. Shilenkov leg. (cSh); Bolshye Koty, 18.vi.1970, 1 spec., E. Berlov leg. (cB); same locality, 1964, 2 spec., Zhivova leg. (ISU); Yuryev, 1900, 4 spec., without collector's name (ISU); Shelekhov, 12.vi.1990, 1 spec., A. Shavrin leg. (cS); Angasolka, 18.v.1992, 1 spec., A. Shavrin leg. (cS); Khamar-Daban Mts., valley of Malaya Bistraya River, low flow, 10.vi.1954, 1 spec., A. Rozhkov leg. (SIPBP); same locality, 25.vi.1954, 5 spec., A. Rozhkov leg. (SIPBP); same data, valley of Pereemnaya River, 11.ii.1978, 2 spec., V. Shilenkov leg. (ISU); **Republic of Buryatia**: Dzhidinskiy distr., Belozersk, 4.-6.vii.1997, 1 spec., V. Shilenkov leg. (cSh); Barguzinskaya valley, 11-15.vii.1989, 2 spec., V. Shilenkov leg. (cSh); **Chita Territory**: 10 km W Nizhniy Torej, 26.vi.1990, 1 spec., S.Tostschakov leg. (cSh). Additional material. **Altai Territory**: Artybash, 9-18.vii.1983, 2 spec., without collector's name (ISU); **Sverdlovsk Territory**: Sverdlovsk [= Ekaterinburg], Kozlovo, 1.x.1971, 1 spec., E. Berlov leg. (cB); **Tomsk Territory**: Tomsk, railway station 28 km, 18.vii.1979, 1 spec., without collector's name (cA); **Chelyabinsk Territory**: Chelyabinsk, 30.vi.1971, 1 spec., E. Berlov leg. (cB).
Distribution: Europe (including Russia), Turkey, Afghanistan, Iran, Turkmenistan, Uzbekistan, Kyrgyzstan, Kazakhstan, India (Kashmir), Siberia, Far East of Russia, Mongolia, North Korea, Japan, China, Oriental Region. Records from the Baikal Region: Yakobson (1910), Berlov (1977), Bessolizyna & Shilenkov (1980), and Shavrin et al. (2001).

Silpha carinata Herbst, 1783
Irkutsk Territory: Tulun, vi.1968, 1 spec., without collector's name (ISU); Zalarinskiy distr., Tunguy, 21.vi.1997, 2 spec., V. Shilenkov leg. (cSh); Angarsk, 9.vii.1956, 1 spec., Dzholova leg. (SIPBP); Meget, 2.vii.1970, 1 spec., without collector's name (ISU); same locality, 14.vii.1959, 1 spec., E. Polyakova leg. (SIPBP); Irkutsk, 1 spec., larva – 20.viii. – imago – 25.viii., E. Berlov leg. (cB); same locality, 9.vi.1940, 1 spec., without collector's name (ISU); same locality, Kaya, 20.vi.1929, 1 spec., Zonova leg. (ISU); same locality, 26.v.1913, 1 spec., S. Rodionoff leg. (ISU); same locality, Leninskiy rajon, 20.viii.1974, 2 spec., Epova

leg. (ISU); same locality, 1.v.1978, 1 spec., E. Berlov leg. (cB); same locality, 11.vii.1984, 1 spec., E. Berlov leg. (cB); same locality, 19.ix.1977, 1 spec., V. Shilenkov leg. (cSh); same locality, Vdovino, 10.v.1974, 2 spec., V. Shilenkov leg. (cSh); same locality, 20.v.1997, 1 spec., V. Shilenkov leg. (cSh); same locality, Pivovarikha, 15.vi.2007, 4 spec., D. Fominykh leg. (cS); Zuy, 6.viii.1957, 1 spec., Dzholova leg. (SIPBP); Sukhovskaya, 24.vi.1952, 1 spec., Dzholova leg. (SIPBP); Shelekhov, 12.viii.1974, 2 spec., Parshin leg. (ISU); **Republic of Buryatia**: Tunkinskaya valley, Mondy, 1285-1400 m, 28.vi.1972, 1 spec., E. Berlov leg. (cB); same locality, 23.vi.-1.vii.1974, 1 spec., E. Berlov leg. (cB); Mikhaylovsk, Katkoma River, 19.vi.1959, 2 spec., Dzholova leg. (SIPBP). Additional material. **Altai Territory**: Barnaul, 16.v.1904, 1 spec., without collector's name (ISU); same data, 1904, 1 spec., without collector's name (ISU); **Republic of Sakha (Yakutia)**: Yakutsk, 19.v.1971, 1 spec., E. Berlov leg. (cB).
Distribution: Europe (including Russia), Siberia, Kyrgyzstan, Kazakhstan, Tajikistan, Turkmenistan, Uzbekistan, India (Kashmir), China (Xinjiang). Records from the Baikal Region: Yakobson (1910) (as *S. bilineata rufocincta* Rt.), Berlov (1977) (as *S. carinata rufocincta*), Berlov & Tomilova (1980), Dubeshko & Malikova (1989), and Lafer (1989). First record from West Siberia.

Silpha obscura obscura Linnaeus, 1758
Irkutsk Territory: Kirensk, 29.vii.1966, 1 spec., without collector's name (ISU); Tulun, 10.vii.1953, 1 spec., Dzholova leg. (SIPBP); same locality, 7.vii.1967, 1 spec., *Betula*-forest, Nestereva leg. (ISU); Zima, 3.vi.1952, 4 spec., Bataminskiy leg. (SIPBP); same locality, 13.vii.1953, 1 spec., Dzholova leg. (SIPBP); Khara-Khuzhir, 23.vi.1961, 12 spec., A. Rozhkov leg. (SIPBP); Baisha, 8.vii.1958, 1 ex. A. Rozhkov leg. (SIPBP); Usol'ye [Sibirskoe], 1.vi.1955, 1 spec., E. Polyakova (SIPBP); Zorino-Bykovo, 2.vi.1992, 1 spec., V. Shilenkov leg. (cSh); Ust'-Orda, valley of Kuda River, 18-28.vi.2007, 5 spec., D. Fominykh leg. (cS); 5 spec., Irkutsk, 25.vii.2006, 1 spec., A. Shavrin leg. (cS); same locality, 2.vii.1960, 1 spec., Dzholova leg. (SIPBP); same locality, 25.vii.1974, 1 spec., E. Berlov leg. (cB); same locality, 5.vi.1970, 1 spec., E. Berlov leg. (cB); same locality, 31.v.1970, 1 spec., E. Berlov leg. (cB); same locality, 25.v.1974, 1 spec., E. Berlov leg. (cB); same locality, Ushakovka, vii.1949, 1 spec., Shmakina leg. (ISU); same locality, 10.viii.1940, 1 spec., without collector's name (ISU); same locality, Botsad [Botanical garden], 10.vii.1960, 1 spec., without collector's name (ISU); same locality, 27.vi.1972, 1 spec., V. Shilenkov leg. (cSh); same locality, 3.vii.1973, 2 spec., V. Shilenkov leg. (cSh); same locality, 9.vi.1997, 2 spec., V. Shilenkov leg. (cSh); Shelekhov, 10.vi.1992, 3 spec., A. Shavrin leg. (cS); same locality, 12.viii.1974, 1 spec., Pershina leg. (ISU); Kultuk, 2.vii.1944, 1 spec., same locality (ISU); Staraya Angasolka, 18.vi.2007, 5 spec., D. Fominykh leg. (cS); Baikalsk, 15.vii.1973, 1 spec., V. Shilenkov leg. (cSh); Khamar-Daban Mts., Malaya Bystraya, 6.vii.1955, 1 spec., 8.vii.1955, A. Rozhkov leg. (SIPBP); same locality, 2 spec., 22.vi.1959, A. Rozhkov leg. (SIPBP); same locality, 1 spec., A. Rozhkov leg. (SIPBP); same locality, 25.vi.1955, 1 spec., A. Rozhkov leg. (SIPBP); same locality, 19.vii.1954, 10 spec., A. Rozhkov leg. (SIPBP); same Mts., Tibelti, 4.vi.1956, 2 spec., A. Rozhkov leg. (SIPBP); same locality, 13.vi.1956, 2 spec., A. Rozhkov leg. (SIPBP); same Mts., valley of Snezhnaya River, 5.-8.vi.2007, 1 spec., A. Shavrin leg. (cS); **Republic of Buryatia**: Tunkinskaya valley, Zun-Murino, 26.vi.1961, 2 spec., A. Rozhkov leg. (SIPBP); same locality, 27.vi.1961, 2 spec., A. Rozhkov leg. (SIPBP); Sayan-Dzhida Mts., valley of Tokhtulta, 2.vii.1961, 2 spec., A. Rozhkov leg. (SIPBP); Ivolga, 27.vi.1959, 1 spec., Dzho-

lova leg. (SIPBP); valley of Temnik River, 12.vi.1957, 2 spec., A. Rozhkov leg. (SIPBP); same locality, 19.vi.1957, 1 spec., A. Rozhkov leg. (SIPBP); Mikhailovsk, Katkoma River, 19.vi.1959, 1 spec., Dzholova leg. (SIPBP); Selenga distr., Gusinoe lake, 28.vi.1957, 1 spec., A. Rozhkov leg. (SIPBP); same locality, 28.vii.1957, 1 spec., A. Rozhkov leg. (SIPBP). Additional material. **Altai Territory**: delta of Ulba River, 10.viii.1983, 4 spec., without collector's name (ISU); **Tomsk Territory**: Tomsk, 1902, 1 spec., without collector's name (ISU).
Distribution: Europe (including Russia), Siberia, Iran, Afghanistan, Pakistan, India (Kashmir, Himachal Pradesh), Tajikistan, Uzbekistan, Kazakhstan, Mongolia, China (Xinjiang), Oriental Region. Records from the Baikal Region: Yakobson (1910), Berlov (1977), Berlov & Tomilova (1980), Schawaller (1980), Lafer (1989), Shavrin et al. (2001), and Růžička (2002). First record from West Siberia.

Silpha perforata Gebler, 1832
Irkutsk Territory: Angarsk, 13.vii.1939, 1 spec., without collector's name (ISU); Kharat, 16.vi.1972, 1 spec., E. Berlov leg. (cB); Bolshye Koty, 16.vi.1970, 1 spec., E. Berlov leg. (cB); same locality, 28.vi.1960, 7 spec., without collector's name (ISU); same locality, 8.vii.1960, 1 spec., without collector's name (ISU); same locality, 20.vi.1959, 1 spec., without collector's name (ISU); same locality, Zhilistsche cape, 13.vi.1959, 6 spec., without collector's name (ISU); same locality, Chyornaya cape, 14.vii.1955, 1 spec., without collector's name (ISU); same locality, vii.1995, 1 spec., V. Shilenkov leg. (cSh); SE slope of Baikal, 9.vi.1965, 1 spec., without collector's name (ISU); Shelekhov, 17.vii.1989, 1 spec., A. Shavrin leg. (cS); same locality, 20.vii.1989, 1 spec., A. Shavrin leg. (cS); same locality, vi.1991, 1 spec., A. Shavrin leg. (cS); same locality, 22.iv.1992, 3 spec., under stone, A. Shavrin leg. (cS); same locality, 3.vi.1992, 1 spec., A. Shavrin leg. (cS); Irkutsk, 30.vii.1967, 1 spec., E. Berlov leg. (cB); same locality, 31.v.1970, 1 spec., E. Berlov leg. (cB); same locality, 19.viii.1972, 1 spec., E. Berlov leg. (cB); same locality, 25.viii.1972, 1 spec., E. Berlov leg. (cB); same locality, 2.vii.1973, 1 spec., E. Berlov leg. (cB); same locality, 8.viii.1973, 1 spec., E. Berlov leg. (cB); same locality, 14.vii.1973, 1 spec., E. Berlov leg. (cB); same locality, 14.vii.1974, 1 spec., E. Berlov leg. (cB); same locality, 25.v.1974, 1 spec., E. Berlov leg. (cB); same locality, Melnikovo, 17.vii.1938, 1 spec., A. Bycoff leg. (ISU); Bolshaya Rechka, 10.vi.1939, 1 spec., without collector's name (ISU); same locality, vii.1939, 5 spec., Artemyeva leg. (ISU); Talzy, 21.vi.1939, 1 spec., without collector's name (ISU); **Republic of Buryatia**: Tunkinskaya valley, Chistokhalo lake, 21.vi.1994, 2 spec., A. Anistschenko leg. (cA); same data, Mondy, Khulugaysha mountain, 23.vi.-1.vii.1974, 1 spec., E. Berlov leg. (cB); Okinskiy distr., 3 km SE Il'chir lake, 20.viii.2007, 1800 m, 2 spec., A. Shavrin leg. (cS); Dzhidinskiy distr., 6 km SE Dzhida, 27.vii.2006, 1 spec., A. Shavrin leg. (cS); Guzhirka, tributary of Armak River, 10.v.1936, 1 spec., Artemyeva leg. (ISU); Orshak, 2.vi.1936, 4 spec., Semenova leg. (ISU); Iro, 30.vi.1939, 8 spec., Semenova leg. (ISU); Selenginskiy distr., Acula, 18.vi.1936, 1 spec., Artemyeva leg. (ISU); Khara-Guzhir, Khamney River, 23.vi.1961, 1 spec., Doncova leg. (ISU); Mukhor-Shibirskiy distr., Mukhor-Shibir, 27.viii.1978, 2 spec., V. Shilenkov leg. (cSh); **Chita Territory**: Govin, 7.viii.1939, 8 spec., without collector's name (ISU); Mogojtujskiy distr., Stchugol, 27.vi.1972, 1 spec., V. Shilenkov leg. (cSh). Additional material. **Altai Territory**: Barnaul, 16.v.1904, 1 spec., without collector's name (ISU); same data, 1904, 1 spec., without collector's name (ISU); **Sverdlovsk Territory**: Sverdlovsk [= Ekaterinburg], 3.ix.1971, 1 spec., E. Berlov leg. (cB); **Chelyabinsk Territory**: Chelyabinsk, 13.ix.1971, 1 spec.,

E. Berlov leg. (cB); **Omsk Territory**: Omsk, 21.viii.1971, 1 spec., E. Berlov leg. (cB); **Novosibirsk Territory**: Novosibirsk, Tolmachevo, 22.viii.1971, 3 spec., E. Berlov leg. (cB).
Distribution: Siberia, Far East of Russia, Mongolia, Korea, East China, Japan. Records from the Baikal Region: Yakobson (1910), Portevin (1932) (both as *S. perforata mandli*), Berlov (1977), Berlov & Berlov (1999), and Růžička (2002). First record from West Siberia.

Thanatophilus dispar (Herbst, 1793)
Irkutsk Territory: Irkutsk, 28.vi.1964, 1 spec., without collector's name (cSh); **Republic of Buryatia**: Dzhidinskiy distr., Verkhniy Dyrestuy, 6.-9.vii.1997, 1 spec., carrion, A. Shavrin leg. (cS); Oka distr., Orlik, 11.vii.1961, 4 spec., A. Rozhkov leg. (SIPBP); Barguzinskiy nature reserve, Davsha, 9.vii.1989, 1 spec., V. Shilenkov leg. (cSh). Additional material. **Republic of Sakha (Yakutia)**: Nyurba, 15.vii.1987, 3 spec., soil traps, Kaymuk leg. (cB).
Distribution: Europe (including Russia), Siberia, Far East of Russia, Kyrgyzstan, Kazakhstan, Uzbekistan, Mongolia, China (Xinjiang, Qinghai). Records from the Baikal Region: Berlov (1977) and Schawaller (1981).

Thanatophilus lapponicus (Herbst, 1795)
Republic of Buryatia: Tunkinskaya valley, Mondy, Khulugaysha mountain, 2500 m, 1.-7.vii.2001, 1 spec., A. Anistschenko leg. (cA); same locality, 1700 m, 26.vi.1979, 1 spec., E. Berlov leg. (cB); same data, Mondy, 23.viii.1979, 2 spec., E. Berlov (cB); Orcak Mts., 28.vii.1939, 3 spec., I. Moskvitin leg. (ISU); Bauntovskiy distr., Severomuysk, 19-20.vii.1979, 2 spec., A. Pleshanov leg. (cSh); **Chita Territory**: Kodar mountain range, 2000 m, x.vi.1975, 1 spec., E. Berlov leg. (cB). Additional material. **Republic of Tuva**: "M.-Aksy"(?), 21.-27.vi.1982, 1 spec., D. Verzhuzkiy leg. (cA).
Distribution: Finland, Iceland, Norway, Sweden, North-east Russia, Siberia, Far East of Russia, Mongolia, Japan, North America. Records from the Baikal Region: Yakobson (1910), Portevin (1932), Berlov (1977), Schawaller (1981), and Bessolizyna & Shilenkov (1980).

Thanatophilus latericarinatus (Motschulsky, 1860)
Republic of Buryatia: Mondy, 30.v.1983, 1 spec., E. Berlov leg. (cB); same locality, 2.vi.1983, 1200 m, 1 spec., E. Berlov leg. (cB); **Chita Territory**: Chita, 9.ix.1973, 2 spec., carrion, E. Berlov leg. (cB). Additional material. **Republic of Sakha (Yakutia)**: SE from Yakutsk, Nizhniy Bestyakh, 13.vii.1996, 2 spec., A. Lenec leg. (cA); 60 km N Amga, Mikhaylovka, 6.vii.1984, 1 spec., Averenskiy leg. (cB); same locality, 18.vii.1984, 1 spec., Averenskiy leg. (cB).
Distribution: Siberia, Far East of Russia, Mongolia, Japan. Records from the Baikal Region: Motschulsky (1860) ("Amur"), Emetz (1977), and Schawaller (1981).

Thanatophilus rugosus (Linnaeus, 1758)
Irkutsk Territory: Kachugskiy distr., Acikyak, 16.vii.1962, 5 spec., A. Pleshanov leg. (cSh); Shelekhov, 30.v.1992, 1 spec., carrion, A. Shavrin leg. (cS); Bolshye Koty, Sennaya cape, 20.-22.vi.1992, 2 spec., A. Shavrin leg. (cS); Khamar-Daban Mts., valley of Pereemnaya River, 23.vii.1956, 1 spec., A. Rozhkov leg. (SIPBP); Baikalsk, valley of Solzan River, 5.vi.1981, 1 spec., on dead mouse, E. Berlov leg. (cB); **Republic of Buryatia**: Il'ynka, 15.vii.1974, 1 spec., V. Shilenkov leg. (cSh). Additional material. **Novosibirsk Territory**: Novosibirsk, Tolmachevo, 5.ix.1969, 1 spec., E. Berlov leg. (cB); **Altai Territory**: Barnaul, 25.v.1905,

1 spec., without collector's name (ISU); Barguzinskiy natural reserve, Baisha, 24.vi.1959, 1 spec., A. Rozhkov leg. (SIPBP).
Distribution: Europe (including Russia), Siberia, Far East of Russia, Afghanistan, Israel, Turkey, Iran, China, Tajikistan, Turkmenistan, Kyrgyzstan Kazakhstan, Mongolia, Korea, Japan. Records from the Baikal Region: Emetz (1977) and Berlov (1977).

Thanatophilus sinuatus Fabricius, 1775
Irkutsk Territory: Bolshie Koty, Sennaya cape, 20.-22.vi.1992, 1 spec., A. Shavrin leg. (cS); Irkutsk, 1.vi.1969, 1 spec., E. Berlov leg. (cB); same locality, 25.v.1974, 2 spec., carrion, E. Berlov leg. (cB); same locality, Kaya, 26.v.1913, 5 spec., without collector's name (ISU); Irkutsk, 12.vi.1911, 1 spec., G. Ahnger leg. (ISU); same locality, 20.vi.1940, 1 spec., Gorodaeva leg. (ISU); same locality, 21.viii.1972, 2 spec., V. Shilenkov leg. (cSh); same locality, 13.ix.1974, 4 spec., V. Shilenkov leg. (cSh); same locality, 7 km lower of Irkutsk, Angara River, 25.v.1974, 3 spec., V. Shilenkov leg. (cSh); Shelekhov, 10.vi.1992, 3 spec., under stones, A. Shavrin leg. (cS); same locality, 30.v.1992, 4 spec., carrion, A. Shavrin leg. (cS); **Republic of Buryatia**: Selenginskiy distr., Iro, 30.vi.1936, 6 spec., Artemyeva leg. (ISU). Additional material. **Sverdlovsk Territory**: Sverdlovsk [= Ekaterinburg], Kolzovo, 3.ix.1971, 1 spec., E. Berlov leg. (cB); **Altai Territory**: Barnaul, 25.v.1905, 1 spec., without collector's name (ISU); **Novosibirsk Territory**: Novosibirsk, Tolmachevo, 3.viii.1971, 1 spec., E. Berlov leg. (cB); same locality, 22.viii.1971, 1 spec., E. Berlov leg. (cB); **Republic of Sakha (Yakutia)**: Nyurba, 19.viii.1987, 1 spec., Kaymuk leg. (cB).
Distribution: Europe (including Russia), Siberia, Far East of Russia, Cyprus, Turkey, Afghanistan, Iran, Uzbekistan, Kyrgyzstan, Kazakhstan, Mongolia, Korea, China, Taiwan. Records from the Baikal Region: Yakobson (1910), Emetz (1977), Berlov (1977), Berlov & Tomilova (1980), Bessolizyna & Shilenkov (1980), and Schawaller (1981).

[***Thanatophilus trituberculatus*** (Kirby, 1837)]
Additional material. **Tyumen Territory**: Yamal, Stschuchye, 10.viii.1968, 5 spec., Yu. P. Korshunov leg. (cB).
Distribution: Finland, northwestern Russia, Siberia, Far East of Russia, Mongolia, North America. Records from the Baikal region: Motschulsky (1860), Yakobson (1910), Portevin (1926) (all as *T. baicalicus*), and Schawaller (1981).

Nicrophorinae

Nicrophorus argutor Jakowlew, 1891
Irkutsk Territory: Balagansk, 23.vi.-7.vii.1990, 2 spec., D. Nikolaev leg. (cSh); Kachug, 28.viii.1940, 4 spec., without collector's name (ISU); **Republic of Buryatia**: Dzhida, 10.vii.1977, 1 spec., V. Shilenkov leg. (cSh); 10 km E Ust'-Barguzin, Gusikha, 3.-9.vii.1997, 1 spec., soil traps, A. Shavrin leg. (cS); **Chita Territory**: Krasnokamenskiy distr., 1982, 1 spec., without collector's name (cB); Borzinskiy distr., Borzya, 10.v.1944, 5 spec., Shurov leg. (ISU); Govin, 4.vi.-1.ix.1939, 164 spec., in the nest of *Marmota sibirica*, E. Baranovich leg. (ISU); 10 km E Ust'-Barguzin, Gusikha, 3-9.vii.1997, 1 spec., soil traps, A. Shavrin leg. (cS). Additional material. **Republic of Tuva**: W Tannu-Ola, Kolbar-Shet Mts., 3.viii.1986, 1 spec., O. Motovnikov leg. (cSh); **Mongolia**: Ar-Hang aim, Tevshruleh, 11.vi.1972, 4 spec.,

L. Dubeshko leg. (cA); same locality, 2.ix.1974, 1 spec., L. Dubeshko leg. (cB); same locality, 8.vii.1972, 1 spec., L. Dubeshko leg. (cB); same locality, 10.vii.1972, 1 spec., L. Dubeshko leg. (cB); "Mongolia", 1968, 1 spec., without collector's name (cB).
Distribution: Kazakhstan, East Siberia, Mongolia, China (Gansu, Beijing, Xizang). Record from the Baikal Region: Berlov (1977) (as *Necrophorus*).

Nicrophorus dauricus Motschulsky, 1860
Irkutsk Territory: Ust'-Uda distr., Srednyaya Muya, 20.-28.viii.1992, 1 spec., carrion, A. Shavrin leg. (cS); Irkutsk, Kaya, 26.v.1913, 1 spec., S. Rodionoff leg. (ISU); same locality, 24.v.1974, 1 spec., carrion, E. Berlov leg. (cB); same data, Vdovino, 24.v.1975, 1 spec., on dead cat, V. Shilenkov leg. (cSh); **Republic of Buryatia**: Tunkinskaya valley, Chistokhalo lake, 19.vi.1994, 1 spec., A. Anistschenko leg. (cA); same locality, Zun-Murino, 26.vii.1974, 1 spec., on dead snake, V. Shilenkov leg. (cB); same locality, 23.vii.1974, 1 spec., V. Shilenkov leg. (cSh); Dzhidinskiy distr., Zagan-Galotiy Mts., 1936, 1 spec., Artemyev leg. (ISU); same distr., 10 km W Nizhniy Torej, left side of Dzhida River opposite Khuldat, 26.vi.1990, 2 spec., S. Tostschakov leg. (cSh); **Chita Territory**: Borzinskiy distr., Govin, 30.vii.1939, 1 spec., E. Baranovich leg. (ISU). **Region not located**: "near Baikal lake", 7.vi.1959, 1 spec., A. Rozhkov leg. (SIPBP). Additional material. **Tomsk Territory**: "Siberia Tomsk", 1 spec., without collector's name (ISU).
Distribution: Siberia, Far East of Russia, Mongolia, Korea, China (Gansu, Heilongjiang, Shaanxi, Qinghai). Records from the Baikal Region: Motschulsky (1860) and Berlov (1977) (as *Necrophorus*).

Nicrophorus investigator Zetterstedt, 1824
Irkutsk Territory: Ust'-Uda distr., Srednyaya Muya, 20.-28.viii.1992, 1 spec., carrion, A. Shavrin leg. (cS); Zima, 22.vii.1952, 3 spec., A. Rozhkov leg. (SIPBP); Baikal lake, Sarma, 12.vii.1993, 1 spec., L. Dubeshko leg. (cA); Kharat, 25.vii.1974, 1 spec., E. Berlov leg. (cB); Irkutsk, 31.vii.1974, 2 spec., night flying, E. Berlov leg. (cB); same data, 22.vii.1955, 1 spec., E. Polyakova leg. (ISU); same data, 17.vii.1971, 1 spec., E. Berlov leg. (cB); Baikal, Varnachka cape, 14.vi.1959, 4 spec., without collector's name (ISU); Maloe Goloustnoe, vii.1964, 1 spec., without collector's name (ISU); Khamar-Daban Mts., Malaya Bistraya River, 14.vi.1954, 1 spec., 7.vii.1954, 1 spec., A. Rozhkov leg. (SIPBP); **Republic of Buryatia**: NW Baikal, Malaya Kosa, 7.viii.1959, 1 spec., A. Rozhkov leg. (SIPBP); Tunkinskaya valley, Nilovka, 9.1968, 1 spec., E. Berlov leg. (cB); same valley, Kholbanovka, 29.vii.1994, 1 spec., A. Anistschenko leg. (cA); Dzhida, 1.viii.1998, 1 spec., carrion, A. Shandruk leg. (cA); Gusinoe lake, 28.vii.1957, 9 spec., A. Rozhkov leg. (SIPBP). Additional material. **Kemerovo Territory**: Kuznetskiy Alatau, Berrikul, 1.vi.82, 1 spec., V. Eryshev leg. (cA).
Distribution: Europe (including Russia), Siberia, Far East of Russia, Turkey, Afghanistan, Iran, Pakistan, India (Kashmir), Kyrgyzstan, Tajikistan, Turkmenistan, Uzbekistan, Kazakhstan, China, Korea, Japan, North America. Records from the Baikal Region: Motschulsky (1860) and Berlov (1977) (as *Necrophorus praedator* Reitter and *N. investigator* Zetterstedt).

Nicrophorus morio Gebler, 1817
Irkutsk Territory: valley of Kuda River, Ust'-Ordynskiy, 19.-29.vi.2007, 1 spec., soil trap with beer, D. Fominykh leg. (cF); **Republic of Buryatia**: Turgutuy, 15.vi.1964, 2 spec.,

E. Berlov leg. (cB); **Chita Territory**: Solovyovka, 15.vi.1964, 1 spec., E. Berlov leg. (cB); Borzinskiy distr., Govin, 10.vi-19.viii.1939, 68 spec., in the nest of *Marmota sibirica*, E. Baranovich leg. (ISU); Datkhur, ?(not readable), 4.vii.1935, 5 spec., without collector's name (ISU); Zun-Torey, 1.viii.1971, 5 spec., V. Shilenkov leg. (cSh). **Region not located:** Melnikova, ?(not readable), 1 spec., A. Bycoff leg. (ISU).
Distribution: European Russia, Siberia, Iran, Kyrgyzstan, Turkmenistan, Uzbekistan, Kazakhstan, Mongolia, China. Records from the Baikal Region: Yakobson (1910) and Berlov (1977) (as *Necrophorus germanicus morio* Gebler).

Nicrophorus quadraticollis Portevin, 1903
Irkutsk Territory: Irkutsk, 17.vii.1971, 1 spec., E. Berlov leg. (cB); same data, 3.vii.1974, 1 spec., E. Berlov leg. (cB).
Distribution: East Siberia, Far East of Russia, South Korea, North-east China. Reitter (1913) described it as *N. inclusus* (type locality: "Ost Sibirien: Chitaizki Sterona" [Chinese side of Amur River]); the species was synonymised by Portevin (1926). New record for Cisbaikalia.

Nicrophorus sepultor Charpentier, 1825
Irkutsk Territory: Khamar-Daban Mts., valley of Snezhnaya River, 9.vii.1974, 1 spec., E. Berlov leg. (cB). Additional material. **Altai Territory**: Gornyak, 28.vi.1970, 1 spec., E. Berlov leg. (cB).
Distribution. Europe (including Russia), Siberia, Iran, Kyrgyzstan, Kazakhstan, Uzbekistan, Mongolia, China (Xinjiang). Record from the Baikal Region: Berlov (1977) (as *Necrophorus*).

Nicrophorus vespillo (Linnaeus, 1758)
Irkutsk Territory: Ust'-Orda, valley of Kuda R., 18.-28.vi.2007, 5 spec., D. Fominykh leg. (cS); Irkutsk, 23.v.1970, 1 spec., carrion, E. Berlov leg. (cB). Additional material. **Sverdlovsk Territory**: Sverdlovsk [= Ekaterinburg], Kozlovo, 3.ix.1971, 1 spec., E. Berlov leg. (cB); **Novosibirsk Territory**: Novosibirsk, 22.viii.1971, 4 spec., E. Berlov leg. (cB).
Distribution: Europe (including Russia), Siberia, Turkey, Iran, India (Kashmir), Kyrgyzstan, Kazakhstan, Tajikistan, Turkmenistan, Mongolia, China (Xinjiang). Records from the Baikal Region: Berlov (1977) and Dubeshko & Malikova (1989) (both as *Necrophorus*).

Nicrophorus vespilloides Herbst, 1783
Irkutsk Territory: Ust'-Orda, valley of Kuda River, 18.-28.vi.2007, 5 spec., D. Fominykh leg. (cS); Burdakovka, 19.vi.1971, 1 spec., E. Berlov leg. (cB); Irkutsk, Ushakovka, v.1948, 5 spec., Shuykov leg. (ISU); Baikalskiy Mts., valley of of Kurkula River, without date, 1 spec., without collector's name (cSh); Bolshye Koty, 18.-31.vii.1993, 3 spec., under carrion of sheep, A. Shavrin leg. (cS); Podkamennaya, 12.vi.2000, 1 spec., V. Shilenkov leg. (cSh); same locality, 3.vii.1994, 5 spec., V. Shilenkov leg. (cSh); same locality, ix.1991, 1 spec., V. Shilenkov leg. (cSh); Baikalsk, 16.-20.viii.1977, 2 spec., V. Shilenkov leg. (cSh); Khamar-Daban Mts., Subuktuy, 30.vii.1936, 2 spec., Semelova leg. (ISU); Malaya Bystraya River, 7.vii.1954, 1spec., A. Rozhkov leg. (SIPBP) [det. Kryzhanovskiy]; same locality, valley of Snezhnaya River, 19.-25.v.1998, 2 spec., A. Shavrin leg. (cS); same locality, 9.vii.1974, 2 spec., E. Berlov

leg. (cB); same locality, 5.-8.vi.2007, 4 spec., A. Shavrin leg. (cS); middle flow of Babkha River, 27.vii.2006, 1 spec., A. Shavrin leg. (cS); valley of Osinovka River, 27.vii.1995, 2 spec., A. Anistschenko leg. (cA); Malaya Bystraya, 13.vi.1954, 1 spec., 19.vii.1954, 25 spec., 21.vii.1954, 3 spec., 9.vii.1955, 1 spec., 17.vii.1954, 3 spec., 21.viii.1954, 2 spec., 28.viii.1954, 1 spec., 4.vii.1954, 4 spec., 7.vii.1955, 4 spec., 10.vii.1955, 1 spec., 13.vii.1955, 4 spec., 23.vii.1956, 1 spec., 7.viii.1959, 1 spec., all A. Rozhkov leg. (SIPBP); same Mts., 1.vii.1955, Lazurskiy leg. (SIPBP); same locality, 2.vii.1974, 2 spec., V. Shilenkov leg. (cSh); **Republic of Buryatia**: Tunkinskiy distr., Zun-Murino, 23.vii.1974, 1 spec., V.Shilenkov leg. (cSh); same locality, 10.vii.1974, 2 spec., V. Shilenkov leg. (cSh); 10 km E Ust'-Barguzin, Gusikha, 3-9.vii.1997, 1 spec., soil traps, A. Shavrin leg. (cS); Barguzinskiy nature reserve, Tamalun River, 25.vii.2000, 1 spec., Ananina leg. (cSh); **Chita Territory**: Krasno-chikojskiy distr., valley of Khilok River, Cheremushki, 26.viii.1998, 1 spec., A. Shavrin leg. (cS); Mogochinskiy distr., Malye Kovali, valley of Chichatka River, 22.-29.vii.1999, 1 spec., A. Shavrin leg. (cS). Additional material. **Altai Territory**: Artybash, without date, Koktysheva, 7 spec., without collector's name (ISU); Barnaul, 27.v.1905, 1 spec., without collector's name (ISU); **Omsk Territory**: Omsk, 7.vii.1975, 1 spec., without collector's name (cB); **Tomsk Territory**: Tomsk, vi.1902, 1 spec., without collector's name (ISU).
Distribution: Europe (including Russia), Siberia, Far East of Russia, Iran, Israel, Turkey, Kazakhstan, China (Heilongjiang, Shaanxi), Korea, Japan. Records from the Baikal Region: Reitter (1895), Berlov (1977) (as *Necrophorus*), Berlov & Tomilova (1980), Bessolizyna & Shilenkov (1980), and Shavrin et al. (2001) (as *Necrophorus*).

Nicrophorus vestigator Herschel, 1807
Republic of Buryatia: Zaktuj, 15.viii.1969, 1 spec., S. Guselnikov leg. (cB).
Distribution: Europe (including Russia), Israel, Pakistan, Turkey, India (Kashmir), Siberia. New record for Transbaikalia.

DISCUSSION

This study is based on the examination of 1029 specimens of carrion beetles from the Baikal Region and adjacent territories. The family Silphidae is represented here by 25 species and subspecies. *Nicrophorus quadraticollis* is new for the fauna of Cisbaikalia; *N. vestigator* Herschel is new for the fauna of Transbaikalia. Additional specimens of *Necrodes littoralis*, *Silpha carinata*, *S. perforata* and *Thanatophilus sinuatus* represent new records for the fauna of West Siberia.

Altogether 21 species (529 specimens) were recorded in the Irkutsk province, 19 spp. (181 spec.) in the Buryatia Republic, and 10 spp. (267 spec.) in the Chita province; some imprecisely labelled specimens (e.g., "near Baikal lake", "Melnikova, A. Bycoff") could not be located exactly. Voucher specimens of two species (*Aclypea daurica*, *Thanatophilus trituberculatus*) were not available. The following gives a summary of the number of species and specimens collected in adjacent territories and reported here: Altai Territory – 10 species (25 specimens), Tyumen Territory – 1 sp. (5 spec.), Omsk Territory – 3 spp. (3 spec.), Tomsk Territory – 5 spp. (7 spec.), Sverdlovsk Territory – 5 spp. (6 spec.), Chelyabinsk Territory – 2 spp. (2 spec.), Kemerovo Territory – 1 sp. (1 spec.), Novosibirsk Territory – 4 spp. (8 spec.), Republic of Khakasia – 1 sp. (1 spec.), Krasnoyarsk Territory – 2 spp. (2 spec.), Republic of

Tuva – 3 spp. (3 spec.), Amur Territory – 1 sp. (1 spec.), Republic of Sakha (Yakutia) – 5 spp. (11 spec.), and Mongolia – 1 sp. (8 spec.).

The most abundant species present in the material is *Nicrophorus argutor* (187 spec.) followed by *Aclypea opaca* (146 spec.), *Oiceoptoma thoracicum* (112 spec.), *Nicrophorus vespilloides* (98 spec.), *Silpha obscura obscura* (90 spec.), *N. morio* (83 spec.), and *Silpha perforata* (81 spec.).

The zoogeographical analysis of material treated in this paper leads to the following results: five species are Holarctic (*Aclypea opaca*, *Dendroxena quadrimaculata*, *Thanatophilus lapponicus*, *T. trituberculatus*, *Nicrophorus investigator*) and 20 species are Palaearctic, including Trans-Palaearctic (*Necrodes littoralis*, *Oiceoptoma thoracicum*, *Phosphuga atrata atrata*, *Silpha carinata*, *S. obscura obscura*, *Thanatophilus dispar*, *T. rugosus*, *T. sinuatus*, *Nicrophorus morio*, *N. sepultor*, *N. vespillo*, *N. vespilloides*), East-Palaearctic (*Aclypea daurica, Silpha perforata*, *Thanatophilus latericarinatus, Nicrophorus argutor*, *N. dauricus*, *N. quadricollis*), and Euro-Siberian (*Aclypea undata*, *Nicrophorus vestigator*) ones.

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SOUHRN

Práce shrnuje údaje získané studiem 1029 exemplářů mrchožroutovitých brouků z Bajkalské oblasti a přilehlých oblastí. Čeleď Silphidae je zde zastoupena 25 druhy a poddruhy. *Nicrophorus quadraticollis* Portevin, 1903 je poprvé uveden z Předbajkalska; *N. vestigator*

Herschel, 1807 je uveden poprvé uveden ze Zabajkalska. Nálezy druhů *Necrodes littoralis* (Linnaeus, 1758), *Silpha carinata* Herbst, 1783, *S. perforata* Gebler, 1832, a *Thanatophilus sinuatus* Fabricius, 1775 představují první publikované údaje z území Západní Sibiře.

Z území Irkutské oblasti je uvedeno 21 druhů (v 529 exemplářích), z Burjatské republiky je uvedeno 19 druhů (v 181 ex.) a z Čitské oblasti je uvedeno 10 druhů (ve 267 ex.). Některé exempláře jsou jen velmi nepřesně lokalizovány („u Bajkalského jezera“) nebo nebyly vůbec lokalizovány (např. materiál s údaji „Melnikova, A. Bycoff [leg.]”. Materiál dvou druhů, *Aclypea daurica* (Gebler, 1832) a *Thanatophilus trituberculatus* (Kirby, 1837), nebyl k dispozici (známé jsou jen literární údaje z této oblasti). Následující počet druhů a studovaných exemplářů byl k dispozici z přilehlých regionů: Altajský kraj – 10 spp. (25 ex.), Ťumenská oblast – 1 sp. (5 ex.), Omská oblast – 3 spp. (3 ex.), Tomská oblast – 5 spp. (7 ex.), Sverdlovská oblast – 5 spp. (6 ex.), Čeljabynská oblast – 2 spp. (2 ex.), Kemerovská oblast – 1 sp. (1 ex.), Novosibirská oblast – 4 spp. (8 ex.), Chakaská republika – 1 sp. (1 ex.), Krasnojarský kraj – 2 spp. (2 ex.), Tuvinská republika – 3 spp. (3 ex.), Amurská oblast – 1 sp. (1 ex.), Republika Sacha (= Jakutsko) – 5 spp. (11 ex.), Mongolsko – 1 sp. (8 ex.).

Následující druhy byly ve studovaném materiálu zastoupeny nejpočetněji: *Nicrophorus argutor* Jakowlew, 1891 – 187 ex., *Aclypea opaca* (Linnaeus, 1758) – 146 ex., *Oiceoptoma thoracicum* (Linnaeus, 1758) – 112 ex., *Nicrophorus vespilloides* Herbst, 1783 – 98 ex., *Silpha obscura obscura* Linnaeus, 1758 – 90 ex., *Nicrophorus morio* Gebler, 1817 – 83 ex. a *Silpha perforata* Gebler, 1832 – 81 ex.

Zoogeografická analýza zastoupených druhů vede k následujícím závěrům: holartické rozšíření má pět druhů (*Aclypea opaca*, *Dendroxena quadrimaculata*, *Thanatophilus lapponicus*, *T. trituberculatus* a *Nicrophorus investigator*); palearktické rozšíření má 20 druhů s následujícím podrobnějším členěním: transpalearktické rozšíření má 12 druhů (*Necrodes littoralis*, *Oiceoptoma thoracicum*, *Phosphuga atrata atrata*, *Silpha carinata*, *S. obscura obscura*, *Thanatophilus dispar*, *T. rugosus*, *T. sinuatus*, *Nicrophorus morio*, *N. sepultor*, *N. vespillo* a *N. vespilloides*), východopalearktické 6 druhů (*Aclypea daurica, Silpha perforata*, *Thanatophilus latericarinatus, Nicrophorus argutor*, *N. dauricus*, *N. quadricollis*) a eurosibiřský prvek je zastoupen dvěma druhy (*Aclypea undata* a *Nicrophorus vestigator*).

Appendix 1. Alphabetical list of localities and their coordinates.
Příloha 1. Abecední seznam lokalit a jejich geografické souřadnice.

№	Locality	Administrative unit	Coordinates
1	Acikyak	Irkutsk Territory	54°12'N 106°18'E
2	Acula	Republic of Buryatia	54°43'N 110°24'E
3	Angarsk	Irkutsk Territory	52°34'N 103°55'E
4	Angasolka	Irkutsk Territory	51°45'N 103°47'E
5	Argada	Republic of Buryatia	54°21'N 110°45'E
6	Arshan	Republic of Buryatia	51°54'N 102°27'E
7	Babkha River valley	Irkutsk Territory	51°34'N 103°53'E
8	Baikalsk	Irkutsk Territory	51°32'N 104°3'E
9	Baisha	Irkutsk Territory	52°22'N 105°37'E
10	Bayshint-Ula mountain	Republic of Buryatia	51°28'N 101°44'E
11	Belozersk	Republic of Buryatia	50°39'N 105°43'E
12	Bichura	Republic of Buryatia	50°35'N 107°35'E
13	Biliktuy	Irkutsk Territory	52°37'N 103°51'E

№	Locality	Administrative unit	Coordinates
14	Birit	Irkutsk Territory	54°4'N 102°54'E
15	Bolshaya Rechka	Irkutsk Territory	51°57'N 104°44'E
16	Bolshie Koty	Irkutsk Territory	51°54'N 105°4'E
17	Borzya	Chita Territory	50°22'N 116°30'E
18	Bystroe	Irkutsk Territory	51°37'N 103°48'E
19	Datkhur	Chita Territory	[not located]
20	Davsha	Republic of Buryatia	54°20'N 109°31'E
21	Govin	Chita Territory	49°28'N 112°9'E
22	Gusikha	Republic of Buryatia	53°2'N 108°20'E
23	Gusinoe lake	Republic of Buryatia	51°16'N 106°23'E
24	Guzhirki	Republic of Buryatia	51°48'N 106°54'E
25	Il'ynka	Republic of Buryatia	52°8'N 107°18'E
26	Iro	Republic of Buryatia	51°2'N 105°59'E
27	Irkutsk	Irkutsk Territory	52°19'N 104°14'E
28	Ivolga	Republic of Buryatia	51°44'N 107°16'E
29	Kamensk	Republic of Buryatia	51°53'N 106°39'E
30	Khara-Guzhir	Republic of Buryatia	52°30'N 99°39'E
31	Kharat	Irkutsk Territory	52°45'N 105°3'E
32	Khilok River valley	Republic of Buryatia	50°41'N 106°44'E
33	Khulugaysha mountain	Republic of Buryatia	51°44'N 101°8'E
34	Khuzhir	Irkutsk Territory	53°13'N 107°25'E
35	Kirensk	Irkutsk Territory	57°46'N 108°6'E
36	Komarinskiy	Irkutsk Territory	51°38'N 103°95'E
37	Kuda River valley	Irkutsk Territory	52°27'N 104°24'E
38	Kultuk	Irkutsk Territoty	51°43'N 103°41'E
39	Kumyska	Republic of Buryatia	[not located]
40	Kurkula River valley	Irkutsk Territory	55°4'N 108°56'E
41	Kyngarga River valley	Republic of Buryatia	51°56'N 102°28'E
42	Malaya Bystraya River valley	Irkutsk Territory	51°44'N 103°26'E
43	Malaya Kosa	Republic of Buryatia	54°45‘N 108°50'E
44	Maloe Goloustnoe	Irkutsk Territory	52°18'N 105°19'E
45	Malye Kovali	Chita Territory	54°3'N 121°18'E
46	Marituy	Irkutsk Territory	51°46'N 104°2'E
47	Meget	Irkutsk Territory	52°25'N 104°3'E
48	Mikhaylovsk	Republic of Buryatia	55°32'N 113°33'E
49	Mondy	Republic of Buryatia	51°41'N 100°59'E
50	Mukhor-Shibir'	Republic of Buryatia	51°3'N 107°50'E
51	Nilovka	Republic of Buryatia	51°41'N 101°40'E
52	Nizhniy Kochergat	Irkutsk Territory	52°8'N 105°16'E
53	Orlik	Republic of Buryatia	52°30'N 99°50'E
54	Orshak	Republic of Buryatia	[not located]
55	Osinovka River valley	Irkutsk Territory	51°29'N 104°10'E
56	Pereemnaya River valley	Irkutsk Territory	51°34'N 105°15'E
57	Pivovarikha	Irkutsk Territory	52°17'N 104°28'E
58	Podkamennaya	Irkutsk Territory	51°57'N 103°49'E
59	Rechka Mishikha	Republic of Buryatia	51°38'N 105°35'E
60	Sarma	Irkutsk Territory	53°6'N 106°48'E
61	Sennaya cape	Irkutsk Territory	51°54'N 105°5'E
62	Severomuysk	Republic of Buryatia	56°10'N 113°35'E
63	Shamanka River valley	Republic of Buryatia	53°57'N 109°54'E
64	Shelekhov	Irkutsk Territory	52°13'N 104°6'E

№	Locality	Administrative unit	Coordinates
65	Shishkino	Chita Territory	52°19'N 113°35'E
66	Snezhnaya River valley	Irkutsk Territory	51°25'N 104°38'E
67	Solovyovka	Chita Territory	[not located]
68	Solzan River valley	Irkutsk Territory	51°29'N 104°14'E
69	Srednyaya Muya	Irkutsk Territory	54°19'N 103°26'E
70	Stchugol	Republic of Buryatia	53°8'N 112°27'E
71	Subuktuy	Republic of Buryatia	50°34'N 106°25'E
72	Sukhovskaya	Irkutsk Territory	52°30'N 103°57'E
73	Talzy	Irkutsk Territory	52°0'N 104°40'E
74	Temnik River valley	Republic of Buryatia	51°11'N 105°48'E
75	Tibelti	Irkutsk Territory	51°47'N 103°15'E
76	Tokhtura River valley	Republic of Buryatia	50°5'N 113°22'E
77	Tulun	Irkutsk Territory	54°33'N 100°34'E
78	Tunguy	Irkutsk Territory	53°35'N 102°33'E
79	Turan	Republic of Buryatia	51°38'N 101°40'E
80	Turgutuy	Chita Territory	51°50'N 112°38'E
81	Ulan-Ude	Republic of Buryatia	51°49'N 107°35'E
82	Usol'ye Sibirskoe	Irkutsk Territory	52°45'N 103°38'E
83	Ust'-Orda	Irkutsk Territory	52°48'N 104°45'E
84	Vdovino	Irkutsk Territory	52°23'N 104°18'E
85	Verkhniy Dyrestuy	Republic of Buryatia	50°39'N 106°6'E
86	Zagan-Galotiy	Republic of Buryatia	50°47'N 107°56'E
87	Zima	Irkutsk Territory	53°55'N 102°4'E
88	Zorino Bykovo	Irkutsk Territory	52°24'N 104°13'E
89	Zun-Murino	Republic of Buryatia	51°44'N 102°51'E
90	Zun-Torey lake	Chita Territory	50°12'N 115°24'E
91	Zuy	Irkutsk Territory	52°27'N 104°4'E
92	Zverevo	Republic of Buryatia	[not located]
93	3 km SE Il'chir lake	Republic of Buryatia	52°1'N 101°4'E
94	6 km SE Dzhida	Republic of Buryatia	50°40'N 106°13'E
95	6 km S Moygoty	Republic of Buryatia	51°38'N 101°22'E
96	7 km lower Irkutsk, Angara River	Irkutsk Territory	52°15'N 104°18'E
97	9 km SW Telezhniy	Irkutsk Territory	55°9'N 97°55'E
98	10 km W Nizhniy Torey	Republic of Buryatia	50°32'N 104°43'E
99	15 km SW Nizhneudinsk	Irkutsk Territory	54°51'N 98°50'E
100	17th km of Baikal's highway	Irkutsk Territory	52°10'N 104°30'E