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Faunistic records of Silphidae (Coleoptera) from China

Faunistické údaje o mrchožroutovitých broucích (Coleoptera: Silphidae) z Číny

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Abstract. Records of 27 species of Silphidae, collected by Czech and Slovak entomologists in China during 1990-1995 are presented. *Nicrophorus vestigator* (Herschel, 1807) is reported from this territory for the first time; *Thanatophilus roborowskyi* (Jakovlev, 1887), *T. pilosus* (Jakovlev, 1890) and *T. dentigerus* (Semenov, 1891) were previously reported only from "Tibet" of China. Recent findings of *Nicrophorus przewalskyi* (Semenov, 1894) and *N. unifasciatus* (Hlisnikovský, 1964) are also recorded.

From the large territory of China, previously mostly old and sparse information has been available on distribution of members of this family.

Some basic information about carrion beetles from China was published in many papers by Portevin (summarised in Portevin 1926), Hatch (1928), Hlisnikovský (1932), Semenov-Tian-Shanskiy (1933), Shchegoleva-Barovskaya (1933a) and Schawaller (1981a). Special attention to this region was paid by Shchegoleva-Barovskaya (1933b), Wu (1937), Hlisnikovský (1964a, b) and Zhang (1992). Additional remarks about occurrence of some Silphidae in China were included also in papers of Jakobson (1910), Portevin (1914), Kôno (1929), Mroczkowski (1966), Shibata (1969), Emetz (1975a, b), Emetz & Schawaller (1975), Schawaller (1980b, 1981b), Lafer (1989) and Nikolaev (1990).

Recently, many Czech and Slovak entomologists visited China, and an interesting material of Silphidae has been slowly accumulated. Although not very large, it contains some rarely collected species with inadequatelly known ranges of distribution. In total over 450 specimens belonging to 27 species have been collected. An annotated list of findings is presented below.

Throughout the text, the following abbreviations in round brackets are used: JH - collection of Jiří Háva, Praha; JK - coll. Jaroslav Kaláb, Jinačovice u Brna; JR - coll. Jan Růžička, Praha; JS - coll. Jan Schneider, Praha; MT - coll. Miloš Trýzna, Ústí nad Labem; NMP - coll. Národní muzeum, Praha; ZČ - coll. Zdeněk Černý, Mírovice.

Numbers of specimens are mostly given in the form: number of males / number of females.

Phosphuga atrata atrata (Linné, 1758)

China, Gansu prov.: Dogcanglhamo, 4200 m, 12-17.vii.1990, -/2 (JR); Luqu, 2500 m, 11.vii.1990, 4/8 (JR,JS,JK); Xiahe, 17.vii.1990, -/1 (JS); Mts. 25 km E Xiahe, 3000 m, 5.viii.1994, 1/- (JR); **Sichuan prov.:** 30 km W of Nanping, Jiuzhaigou, 3100 m, vi.1992, 1/- (JS). Palaearctic species, mentioned from China by Kôno (1929).

Oiceoptoma subrufum (Lewis, 1888)

China, Hebei prov.: 60 km NE of Peking [=Beijing], Qing Long Qiao, 27.vii.1990, 1/- (JS).

Species known from Japan, from China reported by Jakobson (1910), Kôno (1929) and Hatch (1928).

Aclypea daurica (Gebler, 1832)

China, Gansu prov.: Dogcanglhamo, 4200 m, 12-15.vii.1990, 2/3 (JR); Luqu, 2500 m, 11.vii.1990, 2/5 (JS); **Qinghai prov.:** Kukunoor [Qinghai lake], Xian, 20-30.vii.1990, -/1 (JR); **Sichuan prov.:** 60 km N Luhuo, Serba env., 2500 m, 18.vii.1995, 1/- (JS).

Species known from southern Siberia and Mongolia, from China mentioned by Jakobson (1910), Hatch (1928; as *Blitophaga hexastigma* Solsky, 1875), Emetz (1975b) and Nikolaev (1990).

Thanatophilus roborowskyi (Jakovlev, 1887)

China, Gansu prov.: Dogcanglhamo, 4200 m, 12-17.vii.1990, 1/1 (JS); Dalijia Shan, 62 km W Linxia, 3600 m, 10.vii.1994, -/1 (JR); between Linxia and Xiahe, E of road Ponggartang, 1500 m, vii.1995, 2/2 (JS); **Qinghai prov.:** 120 km W of Qinghai Hu, Tianjun, 3500 m, 3-4.vii.1990, 3/- (JR); Kukunoor [Qinghai lake], Chaka, 20.vii.1990, -/1 (JS); Kukunoor [Qinghai lake], Xian, 30.vii.1990, 1/- (JS); 20 km W of Kumbum, 3200 m, 22-24.vi.1991, 1/1 (JR); Ertala, 3800 m, 20-21.vi.1992, 4/2 (JH,JK,MT); Qingshuihe, 4200 m, 1-5.vii.1992, 2/6 (JK,JH); pass 30 km N Nanqen, 32.20°N 96.33°E, 4200 m, alpine meadow, 7.vii.1995, -/1 (JS); **Sichuan prov.:** 100 km NW Kangding, Dagu vill., 3500 m, 27-30.vii.1992, grass land, 1/- (JS); dtto, 21-25.viii.1995, 1/1 (JS); road Litang-Batang, pass 70 km WNW of Litang, 4675 m, 21-22.vii.1994, alpine region, -/1 (JK); pass 20 km S Quagca, 32.30°N 98.25°E, ca. 4100 m, alpine meadow, 1/2 (JS); Litang env., 5000 m, 29.vii.-3.viii.1995, 6/1 (JS).

Species have been so far known only from "Tibet" (Jakobson 1910, Hatch 1928, Schawaller 1981a); probably widely distributed throughout China.

Thanatophilus porrectus (Semenov, 1891)

China, Xinjiang autonom. reg.: N slope of Tian Shan Mts., road Kuqa - Bayanbulak, 50 km SW of Bayanbulak, 10.vii.1993, 3/2 (JS); E part of Tian Shan Mts., pass 3500 m, road Kuqa - Bayanbulak, 80 km SW of Bayanbulak, about 42.5°N 83.5°E, 10-12.vii.1993, -/1 (JH); **Qinghai prov.:** 20 km W of Kumbum, 3200 m, 22-24.vi.1991, -/1 (JR).

Species known from Armenia and central Asia; from China reported by Jakobson (1910) and Schawaller (1981a).

Thanatophilus sinuatus (Fabricius, 1775)

China, Xinjiang autonom. reg.: Boro Horo Shan, Jinig, Ining-H-Sien, 44°06'N, 81°56'E, 26-31.vii.1991, 5/4 (JR,MT).

Palaearctic species, from China reported or mentioned by Hatch (1928), Kôno (1929; as *Silpha (Thanatophilus) auripilosa* Portevin, 1905), Mroczkowski (1966), Shibata (1969, as *T. auripilosus* Portevin), Schawaller (1981a) and Zhang (1992, as *T. auripilosus*).

Thanatophilus rugosus (Linné, 1758)

China, Xinjiang autonom. reg.: Tian Shan, Bogda Shan Mts., 2100 m, vii.1994, valley near lakes, 2/3 (JH,ZČ); **Gansu prov.:** Luqu, 2500 m, 11.vii.1990, 1/- (JS); Gyaqartang, 300 m, 16.vii.1990, 2/5 (JS); 10 km S Xiahe, 3100-3200 m, 4.viii.1994, 1/- (JR); between Linxia and Xiahe, E of road Ponggartang, 1500 m, vii.1995, -/1 (JS); **Qinghai prov.:** 20 km W of Kumbum, 3200 m, 22-24.vi.1991, 1/1 (JS); **Sichuan prov.:** road Luhuo - Sértar, pass 35 km NNE of Luhuo,

3500-4000 m, vii.1994, alpine region, 1 spec. (JH); Shuajingsi, ca 3800 m, 3-4.vii.1991, 1/1 (JK); Hongyuan, ca 4200 m, 21.vii.-3.viii.1991, -/4 (JK); 100 km NW of Kangding, Dagu vill., 3500 m, 27-30.vii.1992, grass land, ca. 30 spec. (JR,JS); dtto, 21-28.viii.1995, 2/2 (JS); road Sabde-Jiulong, pass 40 km N of Jiulong, 3500m, alpine region, 22-23.vi.1994, 2/- (JR); **Yunnan prov.:** Zhongdian, 3300 m, 4-5.vi.1993, 2/1 (JS).
Palaearctic species, from China reported by Emetz (1975b) and Schawaller (1981a).

Thanatophilus dispar (Herbst, 1793)
China, Qinghai prov.: 120 km W of Qinghai Hu, Tianjun, 3500 m, 4.vii.1990, 1/1 (JS).
Palaearctic species, from China reported by Jakobson (1910).

Thanatophilus pilosus (Jakovlev, 1890)
China, Qinghai prov.: 20km W of Kumbum, 3200 m, 22-24.vi.1991, -/1 (JR); 120 km W of Qinghai Hu, Tianjun, 3500 m, 4.vii.1990, -/2 (JS); 25 km S of Dokamarkog, left trib. Zi Qu river, 3500 m, 32.40°N 96.36°E, 10.vii.1995, 1/1 (JS); **Tibet [=Xizang autonom. reg.]:** Base Camp., Rongbuk Monastery, 16,800 ft., 4.vi.1933, R. Greene lgt., -/1 (NMP); "Amdo", 1886, G. Potanin lgt., -/1 (NMP); **Sichuan prov.:** Litang env., 5000 m, 29.vii.-3.viii.1995, 2/3 (JS).
Species so far known only from "Tibet" (Jakobson 1910, Schawaller 1981a).

Thanatophilus dentigerus (Semenov, 1891)
China, Sichuan prov.: Kangding distr., Dagu, 3500 m, 27-30.vii.1992, grass land, 1/- (JS); Kangding, 2700 m, 13-15.vii.1992, -/1 (JS); Litang env., 5000 m, 29.vii.-3.viii.1995, 4/4 (JS); **Yunnan prov.:** Deqen env., 4200m, 8.vi.1993, 2/- (JS); Yulonshan Mts., 3500-4000 m, 27°10'N, 100°13'E, 16-19.vi.1993, 1/- (JS).
Species known from Nepal and northern India, in China reported from "Tibet" (Schawaller 1975, 1978, 1981a, 1981b).

Silpha obscura Linné, 1758
China, Xianjiang autonom. reg.: Boro Horo Shan, Jinig, Ining-H-Sien, 44°06'N, 81°56'E, 26-31.vii.1991, 40 spec. (JR,JH,JS,MT); Sayram lake, 1900-2500 m, 10-13.vi.1991, 5/8 (JR,JS).
Palaearctic species divided into six subspecies (Schawaller 1980a) with wide hybrid zonas. From China reported without more detailed locality only by Wu (1937) and mentioned also by Kôno (1929).

Isosilpha hypocrita (Portevin, 1903)
China, Sichuan prov.: Liziping env., 27.vi.-3.vii.1991, -/1 (JS); Gongga Shan Mts., Moxi, 21-24.vii.1992, ca. 50 spec. (JH,JR,JS); Emei Mt., 2450 m, 3-7.vii.1993, 2 spec. (MT); **Yunnan prov.:** Yulon Shan Mts., Baishui vill., 2900-3500 m, 27°08'N, 100°14'E, 7-12.vii.1990, -/1 (JR); Jizu Shan Mts., 2500-3100 m, 25°58'N 100°21'E, 30.v.-3.vi.1993, 1/- (JS); 35 km N of Lijiang, Heishui, 27.13°N 100.19°E, 18.vi.-4.vii.1993, 1/1 (JS).
Species known from Nepal, Sikkim and Bhutan; from China reported from the Sichuan prov. by Jakobson (1910) and from "Tibet" by Emetz & Schawaller (1975) and Schawaller (1981b).

Eusilpha subcaudata (Fairmaire, 1888)
China, Yunnan prov.: Yulong Shan Mts., 2500-2800 m, road Ganhaizi - Lijiang, 24-26.vii.1990, 1/1 (JR,JS); Lijiang, Xiangshan, 2400 m, 6.vii.1990, -/1 (JR); Cang Shan Mts., E slope, 24.42°N 100.08°E, 21.vi.1992, 4/3 (JR,JS); Ninglang env., 6-10.vii.1992, 1/1 (JS); Dali, 16.vi.1993, 2/2 (JH,JS).

Species reported from the Yunnan prov. by Jakobson (1910), Portevin (1926) and Hatch (1928), and from Sichuan prov. by Zhang (1992).

Calosilpha bicolor (Fairmaire, 1899)

China, Sichuan prov.: Gongga Shan Mts., Moxi, 21-24.vii.1992, -/1 (JS); Moxi env., v.1993, 1/2 (JH); Juilonggou env., Bayi, 70 km W of Chengdu, 23.-27.vi.1993, 42 spec. (JH,MT); **Guizhou prov.**: 20 km NW of Jiangkou, Fanjing Shan Mts., Kuai-chang, 27.v.-3.vi.1995, -/3 (JH); **Yunnan prov.:** Jizu Shan Mts., 25.58°N 100.21°E, 2800 m, 30.v.-3.vi.1993, 3/1 (JS); **Shanxi prov.:** Hua Shan, 27.vii.1990, -/1 (JR); **Hunan prov.:** Guidong env., 26.04°N 113.56°E, 26-31.v.1994, 12 spec. (JH,JS,MT).

Species known from Korea and eastern Siberia; from China reported by Portevin (1926), Hatch (1928), Mroczkowski (1966) and Schawaller (1980b, 1981b).

Necrodes littoralis (Linné, 1758)

China, Sichuan prov.: Gongga Shan Mts., Moxi, 21-24.vii.1992, 1/2 (JS); Moxi env., v.1993, -/1 (JH); Juilonggou env., Bayi, 70 km W of Chengdu, 23-27.vi.1993, 11 spec. (JH,MT); Jiulonggou near Dayi, 70 km W of Chengdu, 28.vi.-2.vii.1995, -/1 (MT); Baoxing env., 100 km N of Ya'an, 12-14.vii.1995, 1/- (MT).

Palaearctic species reported from China (as *Necrodes asiaticus* Portevin, 1922) by Portevin (1926), Hatch (1928), Kôno (1929), Wu (1937), Mroczkowski (1966) and Zhang (1992).

Ptomascopus plagiatus (Ménétries, 1854)

China, Qinghai prov.: Kukunoor [Qinghai lake], Chaka, 20-30.vii.1990, -/1 (JS).

Species known from Korea, Primorye region and Japan; from China mentioned by Jakobson (1910), Portevin (1914, 1926), Hatch (1928), Kôno (1929), Shchegoleva-Barovskaya (1933a), Mroczkowski (1966), Schawaller (1980b) and Lafer (1989).

Nicrophorus przewalskyi (Semenov, 1894)

China, Gansu prov.: Mts. 25 km E Xiahe, 2805-2925 m, 3.viii.1994, mixed forest, 1/- (JR); Labkang, valley E of Ponggartang, 35.13°N 102.56°E, 2700-3900 m, 10.vii.1995, conifer. forest / alpine meadow, -/1 (JS); **Qinghai prov.:** road Yushu - Taramarkog, 20 km S Yushu, 3500 m, 22.vi.1995, -/1 (JS); **Sichuan prov.:** Hongyuan, ca 4200 m, 21.vii.-3.viii. 1991, 1/- (JS).

Endemic Chinese species (Jakobson 1910, Portevin 1926, Hatch 1928, Hlisnikowski 1932, Semenov-Tian-Shanskiy 1933, Shchegoleva-Barovskaya 1933a, Wu 1937).

Nicrophorus concolor (Kraatz, 1877)

China, Sichuan prov.: Gongga Shan Mts., Moxi, 21-24.vii.1992, -/1 (JS); 40 km S of Luging, Hailuogou glacier park, Moxi vill. env., Gongga Mt., 2000-3200 m, 14-20.viii.1995, -/1 (JS); **Guizhou prov.**: 20 km NW of Jiangkou, Fanjing Shan Mts., Kuai-chang, 27.v.-3.vi.1995, 1/- (JH); **Hunan prov.:** Guidong env., 26.04°N 113.56°E, 26-31.v.1994, 8 spec. (JH,JS,MT).

Species known from Himalaya, Korea, Primorye region and Japan; from China mentioned by Jakobson (1910), Portevin (1914, 1926), Hatch (1928), Kôno (1929), Wu (1937), Mroczkowski (1966), Shibata (1969), Schawaller (1980b), Lafer (1989) and Zhang (1992).

Nicrophorus germanicus morio (Gebler, 1817)

China, Qinghai prov.: desert 30 km N of Ertala, 3000 m, 23-24.vii.1992, 5 spec. (JS,MT); **Mei Mongol autonom. reg.:** Manzhouli, ix.1990, 1/- (JS).

Species known from central Asia, Mongolia and eastern Siberia; from China reported by Emetz (1975a, b).

Nicrophorus nepalensis (Hope, 1831)

China, Gansu prov.: Luqu, 2500 m, 11.vii.1990, 2/5 (JR,JS); Venxian env., 18-26.vi.1995, 1/- (JS); **Sichuan prov.:** Gongga Shan Mts., Moxi, 21-24.vii.1992, **2**/1 (JS); Juilonggou env., Bayi, 70 km W of Chengdu, 23-27.vi.1993, 3 spec. (MT); Kangding, 3000 m, 23-27.vii.1995, 1/- (JS); **Guizhou prov.:** 20 km NW of Jiangkou, Fanjing Shan Mts., Kuaichan, 27.v.-3.vi.1995, 1/- (JS); **Yunnan prov.:** Weibao Shan Mts., W slope, 2000-2800 m, 25-28.vi.1992, 1/- (JS); 35 km N of Lijiang, Heishui, 1-19.vii.1992, 1/- (JS); ditto, 18.vi.-4.vii.1993, 7 spec. (JS,MT); Yulong Shan Mts., 2900-3500 m, 27°01'N 100°12'E, 24-26.v.1993, 1/1 (JS); Dali, 16.vi.1993, 3/1 (JS); Jizu Shan Mts., 25.58°N 100.21°E, 2800 m, 30.v.-3.vi.1993, 1/- (JS); **Shanxi prov.:** Hui Shan, 28.vii.1990, 1/1 (JS).

Species with wide area of distribution from Himalaya to Japan, Sumatra, Borneo, Java and Flores, maybe a group of closely related species (Schawaller 1981b). From China reported by Portevin (1926), Hatch (1928), Hlisnikovský (1932), Wu (1937), Hlisnikovský (1964a), Shibata (1969), Emetz & Schawaller (1975), Schawaller (1981b) and Zhang (1992).

Nicrophorus unifasciatus (Hlisnikovský, 1964)

China, Sichuan prov.: 30 km W of Nanping, Jiuzhaigou, 3100 m, vi.1992, 1/1 (JS); Kangding distr., Mugetsuo lake, 4500 m, 16-19.vii.1992, 2/- (JS); dtto, 3700 m, 26.vi.1993, 4 spec. (MT); Sabde env., 3000 m, 1-3.viii.1992, 3/3 (JR,JS); **Yunnan prov.:** Hei Shui env., 24-28.v.1993, -/1 (JS); Yulong Shan Mts., 27.07°N 100.14°E, 3200 m, 28.v.1993, 1/- (JS).

Species described from a single male specimen from China, Sichuan prov., Kangding ("Tutsienlu-Kiulung", Hlisnikovský 1964). The colour pattern of elytra similar to the specimen of *N. nepalensis* from Nepal mentioned by Schawaller (1981b: 225, fig. 26).

Nicrophorus semenowi (Reitter, 1887)

China, Qinghai prov.: Chalaxung, 4000 m, 29-30.vi.1992, Schawaller det. 1994, 1/- (JS); **Sichuan prov.:** 20 km SSE Darcang, road Sétrar - Darcang, 4000 m, 15-17.vii.1995, -/1 (JS).

Endemic Chinese species (Jakobson 1910, Portevin 1926, Hatch 1928, Hlisnikowski 1932, Semenov-Tian-Shanskiy 1933, Wu 1937 and Schawaller 1981).

Nicrophorus argutor (Jakovlev, 1891)

China, Hebei prov.: 60 km NE of Peking [=Beijing], Qing Long Qiao, 27.vii.1990, Schawaller det. 1994, 1/- (JS).

Species known from southern Siberia and Mongolia; from China reported by Hatch (1928) and Emetz (1975a, b).

Nicrophorus vespilloides Herbst, 1784

China, Sichuan prov.: Hongyuan, ca 4200 m, 21.vii.-3.viii. 1991, 1/- (JK).

Holarctic species mentioned from China by Lafer (1989).

Nicrophorus dauricus (Motschulsky, 1860)

China, Gansu prov.: Dogcanglhamo, 4200 m, 12-15.vii.1990, 2/- (JS); Venxian env., 18-26.vi.1995, 1/- (JS); **Qinghai prov.:** 20 km W of Kumbum, 3200 m, 22-24.vi.1991, 2/3 (JR,JS); **Sichuan prov.:** Jiuzhaigou, 12-16.vi.1995, 1/- (JS); 30 km W Garze, Rongbaca, 31.40°N 99.43°E, 3500 m, 1.vii.1995, 1/- (JS).

Species known from Siberia, Mongolia and Korea; from China mentioned by Jakobson (1910), Mroczkowski (1966), Emetz (1975a, b) and Lafer (1989).

Nicrophorus vespillo (Linné, 1758)

China, Xinjiang prov.: Boro Horo Shan, Jinig, Ining-H-Sien, 44°06'N, 81°56'E, 26-31.vii.1991, 1/1 (JR,JS).

Palaearctic species mentioned from China by Jakobson (1910), Shchegoleva-Barovskaya (1933a) and Emetz (1975b).

Nicrophorus vestigator (Herschel, 1807)

China, Hebei prov.: 60 km NE of Peking [=Beijing], Qing Long Qiao, 27.vii.1990, 1/- (JR).

Palaearctic species, reported from China for the first time.

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SOUHRN

V článku je zpracován materiál více než 450 exemplářů mrchožroutovitých brouků, sebraných českými a slovenskými entomology v letech 1990 až 1995 v Číně. Celkem sběry obsahují 28 druhů, přičemž druh *Nicrophorus vestigator* (Herschel) je uváděn z Číny poprvé. Výskyt druhů *Thanatophilus roborowskyi* (Jakovlev), *T. pilosus* (Jakovlev) a *T. dentigerus* (Semenov) byl v Číně zatím znám pouze ze starých údajů z "Tibetu". Uvedeny jsou i nálezy málo známých druhů *Nicrophorus przewalskyi* (Semenov) a *N. unifasciatus* (Hlisnikovský).