

## New Distribution Records of Pamphiliid Sawflies (Hymenoptera) from Russia, Ukraine, Kazakhstan and Sweden<sup>1)</sup>

By

**Akihiko SHINOHARA**

Department of Zoology, National Science Museum, Tokyo

and

**Alexej G. ZINOVJEV**

Zoological Institute, Russian Academy of Sciences, St. Petersburg

**Abstract** Mainly based on the examination of the collections of the Zoological Institute, Russian Academy of Sciences, St. Petersburg, and the Zoological Museum, Moscow Lomonosov State University, Moscow, new distribution records are given of the following nine species of the sawfly genus *Pamphilius*: *P. festivus* PESARINI et PESARINI, 1984, from Sweden, European part of Russia, including the Urals, and East Siberia; *P. fumipennis* (CURTIS, 1831) from the Urals; *P. histrio* LATREILLE, 1812, from Kazakhstan; *P. nemorum* (GMELIN, 1788) from Ukraine and West Siberia; *P. nigrifemoratus* SHINOHARA et TAEGER, 1990, from Ukraine; *P. sylvaticus* (LINNAEUS, 1758) from West Siberia; *P. tricolor* BENEŠ, 1974, from the Urals; *P. vafer* (LINNAEUS, 1767) from Caucasus; and *P. varius* (LEPELETIER, 1823) from Kazakhstan.

The pamphiliid sawfly fauna of the former Soviet countries, represented by 90 species in eight genera (ZHELOCHOVTSEV & ZINOVJEV, 1995), is rather well known, particularly within the European boundary. However, published information on the distributional range of each species is still fragmentary.

An examination of the specimens kept in the Zoological Institute, Russian Academy of Sciences, St. Petersburg (ZISP), and in the Zoological Museum, Moscow Lomonosov State University, Moscow (ZMUM), has revealed new distribution of nine species of the genus *Pamphilius*. In the following lines, we are going to give a list of these new records, together with a brief summary of distribution records from the literature for each species. The first Swedish record of *P. festivus* PESARINI et PESARINI, 1984, is also included in this paper based on the material housed in the Naturhistoriska Riksmuseet, Stockholm (NRMS).

We wish to thank Dr. A. V. ANTROPOV, ZMUM, and Dr. F. RONQUIST, NRMS, for allowing study of specimens under their charge and Dr. S.-I. UÉNO,

---

1) This work is supported in part by the Grant-in-aid for Scientific Research No. 07640943 from the Ministry of Education, Science, Sports and Culture, Japan.

National Science Museum, Tokyo, for his critical reading of the manuscript.

*Pamphilius festivus* PESARINI et PESARINI, 1984

*Specimens examined.* Sweden: 1 ♀, "Nyckelviken, Sdm, 19/6 38 Malaise" (NRMS). RUSSIA (European part): 1 ♀, Moscow (ZISP); 1 ♀, St. Petersburg (ZISP). (Urals): 1 ♀, "Polevskoi, Sverdlovsk, A. Zinovjev, 14. VII. 67" (ZISP). (East Siberia): 1 ♀, "Yurty, Kansk. u., Enis., 5/VI 912, Mishin, Verkhov" (ZISP).

*Distribution.* Europe: France, The Netherlands, Germany, Italy, Poland, Latvia, Finland (SHINOHARA & TAEGER, 1990, and references included therein); Sweden, European part of Russia including Urals. East Siberia.

*Remarks.* This species closely resembles *P. betulae* (LINNAEUS) and is apparently mixed with it in collections. The specimens listed above represent the first records from Sweden and Russia. These new records have shown that the species has a very wide distribution range as *P. betulae* (LINNAEUS).

*Pamphilius fumipennis* (CURTIS, 1831)

*Specimens examined.* UKRAINE: 1 ♀, "Uzhgorod, 24. vi. 1954, I. Bokotei" (ZMUM). RUSSIA (Urals): 1 ♀, "Kungur, Permsk. obl., Uchleskhoz, Zinovjev, 13. VII. 1970" (ZISP).

*Distribution.* Europe: England, France, Belgium, The Netherlands, Germany, Austria, Italy, Latvia, Finland, European part of Russia (SHINOHARA, 1985, and references included therein); Denmark (MIDTGAARD, LOMHOLT & KOCH, 1987); Norway (MIDTGAARD, 1987); Czech (BENEŠ, 1989); Ukraine (ZHELOCHOVTSEV & ZINOVJEV, 1995).

*Remarks.* This species has already been recorded from the European part of Russia, but the specimen from the Urals cited above may represent the easternmost record of the species. ZHELOCHOVTSEV and ZINOVJEV (1995) included Ukraine in the distribution of *P. fumipennis*, but no collection data from Ukraine have been published. The Ukrainian specimen with ZHELOCHOVTSEV's identification label is kept in ZMUM but has been severely damaged by dermestids.

*Pamphilius histrio* LATREILLE, 1812

*Specimen examined.* KAZAKHSTAN: 1 ♀, "Akm. ob., Kokchet. u., Boro-voye, E. Smirnov, 19/VI 28" (ZMUM).

*Distribution.* Europe: Britain, France, Belgium, The Netherlands, Norway, Denmark, Germany, Switzerland, Austria, Italy, Czech, Hungary, Finland,

Ukraine, European part of Russia, including Caucasus (SHINOHARA, 1995, and references included therein); Latvia (TSINOVSKIJ, 1953). Kazakhstan (ZHELOCHOVTSEV & ZINOVJEV, 1995). Korea (SHINOHARA, 1995).

*Remarks.* ZHELOCHOVTSEV and ZINOVJEV (1995) included Kazakhstan in the distribution of this species; however, no definite collection data from this country have been published.

*Pamphilius nemorum* (GMELIN, 1788)

*Specimens examined.* UKRAINE: 1♂, "Poltava, 15/V 24, F. Lukyanovich" (ZMUM). RUSSIA (West Siberia): 1♂, "Novosibirsk oblast, Izdrevlya, Petrova, 22/VI 59" (ZMUM).

*Distribution.* Europe: England [?], France, Belgium, Denmark, Germany, Austria, Italy, Czech, Hungary, Rumania, Bulgaria, Latvia, Finland, European part of Russia, including Urals (SHINOHARA, 1985, and references included therein); Slovakia (BENEŠ, 1989); Ukraine (ZHELOCHOVTSEV & ZINOVJEV, 1995). Western Siberia.

*Remarks.* This species is new to the fauna of West Siberia, the first record of *P. nemorum* from outside Europe. Collection records of this species from Ukraine have not been published, though ZHELOCHOVTSEV and ZINOVJEV (1995) listed Ukraine in the distribution of this species.

*Pamphilius nigrifemoratus* SHINOHARA et TAEGER, 1990

*Specimens examined.* UKRAINE: 2♂, "okr. Rakhova, Karpaty, A. Zinovjev, 26. V. 1978" (ZISP & National Science Museum, Tokyo).

*Distribution.* Europe: Rumania (SHINOHARA & TAEGER, 1990); Ukraine.

*Remarks.* This species was recently described on the basis of a single male specimen collected at "Bucegi Geb., Umg. Bucsoi, 1400 m" in Rumania. The two males listed above, the first Ukrainian specimens to be recorded, are from the Ukrainian Carpathians close to the Rumanian border.

*Pamphilius sylvaticus* (LINNAEUS, 1758)

*Specimen examined.* RUSSIA (West Siberia): 1♀, "30/V 23, Barnaul, Monast. Bor, Konovalov" (ZISP).

*Distribution.* Europe: Britain, Ireland, France, Belgium, The Netherlands, Denmark, Germany, Switzerland, Austria, Italy, Poland, Czech, Hungary, Slovenia, Rumania, Norway, Sweden, Finland, European part of Russia including Caucasus and Urals (SHINOHARA, 1985, and references cited therein); Slovakia (GREGOR & BAŤA, 1940); Bulgaria (VASILEV, 1978); Latvia (TSINOVSKIJ,

1953); Ukraine (BOKOTEI, 1956). Western Siberia.

*Remarks.* VERZHUTSKIJ (1966) recorded this species from the Baikal region, East Siberia, based on the larvae feeding on *Padus racemosa*, but BENEŠ (1976) considered it to be doubtful. The specimen from Barnaul cited above is the first adult specimen to be recorded from outside Europe and marks the eastern limit of the known distribution range of the species.

#### *Pamphilius tricolor* BENEŠ, 1974

*Specimen examined.* RUSSIA (Urals): 1 ♀, "N. Ural, 23. VI. 1958, Burmantovo, Ibdel'sk r-n, A. Rasnitsin" "*Pamphilius pictifrons* Guss. A. Rasnitsin det." (ZISP).

*Distribution.* East Siberia, Russian Far East, Korea, Japan (SHINOHARA, 1995). Urals.

*Remarks.* This is an eastern Palearctic species and its discovery on the Urals extends its range considerably westwards.

#### *Pamphilius vafer* (LINNAEUS, 1767)

*Specimens examined.* RUSSIA (Caucasus): 1 ♀, "Maikop, [illegible], 16-IV-27" "*Pamphilius vafer* L. D. Dovnar det." "*Pamphilius varius* Lep. Zhelochovtsev det. 36" (ZMUM); 1 ♀, "Teberda, 20/VI 42, V. Steporov" (ZISP).

*Distribution.* Europe: Spain, Britain, France, The Netherlands, Denmark, Germany, Switzerland, Austria, Italy, Poland, Czech, Hungary, Yugoslavia, Albania, Latvia, Norway, Sweden, Finland, Urals (KLIMA, 1937); Belgium (WOLF, 1965); Slovakia (GREGOR & BAŤA, 1940); European part of Russia, Ukraine (GUSSAKOVSKIJ, 1935). Caucasus. Western Siberia (GUSSAKOVSKIJ, 1935).

*Remarks.* This is a widely distributed species, but has not been recorded from Caucasus.

#### *Pamphilius varius* (LEPELETIER, 1823)

*Specimen examined.* KAZAKHSTAN: 1 ♀, "Akmolinsk, Kokchet. u., Borovoye, 27. VI. 28, N. Emel'janova" (ZISP).

*Distribution.* Europe: England, France, Belgium, Denmark, Germany, Finland, Urals (KLIMA, 1937); "Britain", Ireland (BENSON, 1951); The Netherlands (BARENDRECHT, 1949); Switzerland (LISTON, 1981); Italy (PESARINI & PESARINI, 1976); Austria (SCHEDL, 1972); Czech (GREGOR & BAŤA, 1940); Hungary (MÓCZÁR & ZOMBORI, 1973); Norway (MIDTGAARD, 1987); Latvia? (TSINOVSKIJ, 1953; cited as a synonym of *P. vafer*); European part of Russia, Ukraine

(GUSSAKOVSKIJ, 1935). Kazakhstan. Siberia, Amur region, Kamtchatka (KLIMA, 1937); Vladivostok (GUSSAKOVSKIJ, 1935); Korea (DOI, 1938). Sakhalin, Kuriles (TAKEUCHI, 1955). Japan (SHINOHARA & OKUTANI, 1983).

*Remarks.* This is the first record of *P. varius* from Kazakhstan.

### References

- BARENDRECHT, G., 1949. De Pamphiliidae van de Nederlandse Fauna. *Tijdschr. Ent.*, 1948 [1949]: 2-4
- BENEŠ, K., 1976. The Siberian species of the genus *Pamphilius* related to *P. vafer* (L.) (Hymenoptera, Pamphiliidae). *Acta ent. bohemoslov.*, 73: 159-173.
- 1989. Symphyta. In SEDIVY, J. *et al.*, Enumeratio Insectorum Bohemoslovakiae, Check list of Czechoslovak insects III (Hymenoptera). *Acta faun. ent. Mus. natn. Pragae*, 19: 13-25.
- BENSON, R. B., 1951. Hymenoptera 2. Symphyta. Section (a). *Handbks. Ident. Brit. Insects*, 6 (2 a): 1-49.
- BOKOTEI, I. I., 1956. Materialy po faune pilil'shchikov i rogozhvostov (Chalastogastra, Hymenoptera) Zakarpat'ja. *Nauch. Zap. uzhgorod. gos. Univ.*, 16: 119-132.
- DOI, H., 1938. Tenthredinidae from Korea. *J. Chosen nat. Hist. Soc.*, (24): 29-35. (In Japanese.)
- GREGOR, F., & L. BATA, 1940. Podrząd Symphyta (Chalastogastra, Tenthredinoidea). *Prodromus Hymenopterorum patriae nostrae, pars IV. Sbor. ent. odd. Nár. Mus. Praze*, 18: 201-249.
- GUSSAKOVSKIJ, V. V., 1935. Chalastogastra (pt. 1). Faune de l'URSS (n. s. 1), Insectes Hyménoptères, II (1). XVIII+453 pp. Édition de l'Académie des Sciences de l'URSS, Moscow, Leningrad. (In Russian with German summary.)
- KLIMA, A., 1937. Pamphiliidae. HEDICKE, H. (ed.), *Hymenopterorum Catalogus*, 3. 84 pp. W. Junk, 's-Gravenhage.
- LISTON, A. D., 1981. A provisional list of Swiss sawflies (Hymenoptera Symphyta). *Dtsch. ent. Z.*, N. F., 28: 165-181.
- MÓCZÁR, L., & L. ZOMBORI, 1973. Levéldarázs-Alkatúak I.—Tenthredinoidea I. *Fauna hung.*, (111): 1-128.
- MIDTGAARD, F., 1987. The Norwegian Xyelidae and Pamphiliidae (Hymenoptera). *Fauna norv.*, Ser. B, 34: 125-130.
- , O. LOMHOLT & F. KOCH, 1987. The Danish Xyelidae and Pamphiliidae (Hymenoptera). *Ent. Meddr.*, 55: 31-38.
- PESARINI, C., & F. PESARINI, 1976. Materiali per un catalogo degli Imenotteri Sinfiti italiani. I. Famiglia Pamphiliidae (Hymenoptera). *Boll. Soc. ent. ital.*, 108: 53-66.
- SCHEDL, W., 1972. Die Pflanzenwespen (Hymenoptera, Symphyta) des Landesmuseums Joanneum in Graz. Teil 1: Megalodontoidea, Siricoidea, Orussoidea und Cephoidea. *Mitt. Abt. Zool. Landesmus. Joanneum*, 1: 93-110.
- SHINOHARA, A., 1985. Web-spinning sawflies of the *sylvaticus* group of *Pamphilius* (Hymenoptera, Pamphiliidae). *Syst. Ent.*, 10: 323-351.
- 1995. *Pamphilius histrio* (Hymenoptera, Pamphiliidae) and its close relatives. *Bull. natn. Sci. Mus.*, Ser. A, 21: 37-70.
- & T. OKUTANI, 1983. Host-plants of Japanese Pamphiliinae (Hymenoptera, Pamphiliidae). *Kontyû, Tokyo*, 51: 276-281.
- & A. TAEGER, 1990. Notes on some European species of *Pamphilius* LATREILLE (Hymenoptera, Pamphiliidae), with description of a new species from Rumania. *Bull. natn. Sci. Mus.*, Ser. A, 16: 89-95.

- TAKEUCHI, K., 1955. Sawflies of the Kurile Islands (I). *Ins. matsum.*, Sapporo, 19: 9–22.
- TSINOVSKIJ, Ja. P., 1953. Rogokhvesty i Pilil'shchiki. Nasekomye Latvijskoj SSR. 209 pp. Izd. Akad. Nauk Latv. SSR, Riga.
- VASILEV, I., 1978. Fauna Bulgarica, 8. Hymenoptera, Symphyta. 180 pp. Aed. Acad. Sci. Bulg., Sofia. (In Bulgarian.)
- VERZHUTSKIJ, B. N., 1966. Pilil'shchiki Pribajkal'ya. 164 pp. Nauka, Moskva.
- WOLF, F., 1965. Données pour un atlas des Hyménoptères de l'Europe occidentale. IV. Famille des Pamphiliidae. *Bull. Inst. agronom. Stat. Rech. Gembloux*, 33:455–463.
- ZHELOCHOVTSEV, A. N., & A. G. ZINOVJEV, 1995. A list of the sawflies and horntails (Hymenoptera, Symphyta) of the fauna of Russia and adjacent territories. I. *Ent. Obozr.*, 74: 395–415. (In Russian.)