

Records of Sawflies of the Genus *Tenthredo* (Insecta: Hymenoptera: Tenthredinidae) from Kamchatka and the North Kuril Islands

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Abstract Collection records of sawflies of the genus *Tenthredo* are given from Kamchatka and the North Kuril Islands (Paramushir and Shumshu Islands). Ten species are recorded from Kamchatka and seven species, including one unidentified, from the North Kurils. *Tenthredo colon* Klug is newly recorded from the North Kurils (Paramushir Island) and *T. silensis* O. Costa from Shumshu Island.

Key words: Tenthredinidae; *Tenthredo*; Kamchatka, North Kuril Islands; collection records.

Tenthredo Linnaeus, 1758, is the largest genus of sawflies represented by over seven hundred described species distributed in the Holarctic Region and temperate areas of the Oriental Region (Smith, 1979). The *Tenthredo* fauna of Kamchatka and the North Kurils was studied by Enslin (1926), Forsius (1928, 1929), Malaise (1931), Takeuchi (1933, 1934), Zhelochovtsev (1939), and Ermolenko (1981), and 14 species have been recorded from Kamchatka and six species from the North Kurils.

The Natural History Museum and Institute, Chiba carried out the Biological Expedition to the Kamchatka Peninsula and the North Kuril Islands in 1996 and 1997. This is a part of a project entitled “The Origin and Biogeography of the Northeast Asian Biota”, in co-operation with the Institute of Biology and Pedology and the Institute of Marine Biology belonging to the Far Eastern Branch of Russian Academy of Sciences, Vladivostok. In the course of the expedition, the junior authors collected a total of 120 *Tenthredo* sawflies representing 13 species, which are enumerated in the following lines. Of these, *T. colon* Klug, 1817, is newly recorded from the North Kurils (Paramushir Island), and *T. silensis* O. Costa, 1859, from Shumshu Island. One species from Shumshu Island

belonging to the *arcuata-schaefferi* group (Taeger, 1985) has not been identified with certainty.

In this work, we generally follow the species-level nomenclature and subgeneric classification of Zhelochovtsev and Zinovjev (1996), whereas our concept of the genus *Tenthredo* is a conventional one (e.g., Malaise, 1945; Smith, 1979), differing from their more inclusive treatment of the genus.

Specimens studied were collected mainly by sweeping the flowers of Umbelliferae. These are deposited in the collections of the Natural History Museum and Institute, Chiba (CBM), and the Department of Zoology, National Science Museum, Tokyo (NSMT). “ZI” is the registration code for Insecta in CBM.

List of Collected Species

1. *Tenthredo* sp.

Material examined. **North Kuril Islands:** 1♂, 22. VII. 1997, Lake Bol’shoye, Shumshu I., 50°46.230’N, 156°15.339’E, 15 m alt., A. Saito leg., CBM-ZI 82235.

Remarks. This species is a member of the *arcuata-schaefferi* group and possibly belongs to the species identified with *T. arcuata* by Takeuchi (1956). The single specimen runs to couplet 4 in Taeger’s (1988) key but dis-

agrees with the first section (*T. nigripleuris*) in having the hind coxa almost entirely pale and the under side of the abdomen without dark marking and with the second section in having the tegula and the mesoscutellum entirely black.

2. *Tenthredo arcuata korabica* (Csiki, 1923)

Material examined. Kamchatka Peninsula: 1♀, 27. VII. 1999, Poperechnaya River, Bystraya River basin, 17 km from main road, 53°23.300'N, 157°41.130'E, 320 m alt., A. Saito leg., CBM-ZI 82236; 1♀, same data, NSMT.

Distribution. Europe, Kamchatka.

Remarks. The two specimens examined belong to the *arcuata-schaefferi* group and run to *T. arcuata korabica* (Csiki) in Taeger's (1985) key. This is probably the same species identified with "*T. arcuatus* var. *aegra*" by Enslin (1926), Forsius (1928), and Malaise (1931). For the usage of this subspecies name, we follow Taeger (1985), though Zhelochovtsev and Zinovjev (1996) did not recognize any subspecies within *T. arcuata*.

3. *Tenthredo nigripleuris* (Enslin, 1910)

Material examined. Kamchatka Peninsula: 1♀, 30. VII. 1997, Bystraya River basin, 30 km north of Ganaly, 53°58.159'N, 157°44.734'E, 390 m alt., R. B. Kuranishi leg., CBM-ZI 82237.

Distribution. Northern Europe, Kamchatka.

Remarks. The only specimen examined belongs to the *arcuata-schaefferi* group and runs to *T. nigripleuris* (Enslin) in Taeger's (1985) key, though the apical antennal segments of this specimen are apparently longer than the ones illustrated by Taeger (1985: Fig. 70). Enslin (1926) and Malaise (1931) already recorded this species from Kamchatka under the name of "*T. arcuatus* var. *nigripleuris*."

4. *Tenthredo moniliata fuscicornis* Eschscholtz, 1822

Material examined. Kamchatka Peninsula: 1♀, 11. VII. 1996, Ebet Mountains (South Part), 42 km northwest Ust Kamchatka, upper part of Radg River, 56°29.843'N, 161°59.633'E, 150 m alt., R. B. Kuranishi leg., CBM-ZI 82256; 5♀, 9. VII. 1997, Tikhayia River, about 30 km from Petropavlovsk-Kamchatskiy, 53°

04.718'N, 158°22.383'E, 40 m alt., A. Saito leg., CBM-ZI 82238–82242; 5♀, 27. VII. 1997, Poperechnaya River, Bystraya River basin, 17 km from main road, 53°23.300'N, 157°41.130'E, 320 m alt., A. Saito leg., CBM-ZI 82243–82247; 2♀, 29. VII. 1997, Poperechnaya River, Bystraya River basin, 17 km from main road, 53°23.300'N, 157°41.130'E, 320 m alt., A. Saito leg., CBM-ZI 82248, 82249; 4♀, 30. VII. 1997, Bystraya River basin, 30 km north of Ganaly, 53°58.159'N, 157°4.734'E, 390 m alt., A. Saito leg., CBM-ZI 82250–82253; 1♂, same data, CBM-ZI 82258; 1♀, 3. VIII. 1997, Mt. Vachkazhets, upper part of Takhkoloch River, Basin of Plotnikova, 53°05.200'N, 157°52.711'E, 470 m alt., A. Saito leg., CBM-ZI 82254; 1♀, 4. VIII. 1997, Mt. Vachkazhets, upper part of Takhkoloch River, Basin of Plotnikova, 53°04'N, 157°50'E, 400 m alt., A. Saito leg., CBM-ZI 82255; 1♂, same data, CBM-ZI 82257.

North Kuril Islands: 1♀, 13. VII. 1997, 3–8 km south of Severo-Kuril'sk, Paramushir I., 50°37.7'N, 156°08'E, 5–30 m alt., A. Saito leg., CBM-ZI 82259; 1♀, 17. VII. 1997, Shelekhovo to Shimoyur River, Paramushir I., 50°22.012'N–50°1.764'N, 155°36.677'E–155°34.228'E, 0–100 m alt., A. Saito leg., CBM-ZI 82260; 2♂, same data, CBM-ZI 82262, 82263; 1♀, 19. VII. 1997, Shelekhovo, Paramushir I., 50°22.012'N, 155°36.677'E, 10 m alt., A. Saito leg., CBM-ZI 82261.

Distribution. Western Siberia to the Russian Far East.

Remarks. This taxon has been treated under various names because of its variable color of the antennae, mesoscutellum and posttergite, which is generally stable in the species of *Tenthredo*. Though Enslin (1926) and Malaise (1931) regarded *T. fuscicornis* as a good species, here we follow Forsius (1929) and Zhelochovtsev and Zinovjev (1996) in treating it as a subspecies of *T. moniliata*. This subspecies was recorded by Enslin (1926), Forsius (1928, 1929) and Malaise (1931) from Kamchatka. Takeuchi (1933, 1934, 1955) and Ermolenko (1981) recorded it from Paramushir, Shumshu and Alaid Islands under the names of *Tenthredella fuscicornis* Eschscholtz, 1822, *Tenthredella fuscicornis forsii* (Konow, 1908) or *Tenthredo moniliata* Klug forma *fuscicornis* Eschscholtz.

**5. *Tenthredo velox peninsularis*
Malaise, 1931**

Material examined. Kamchatka Peninsula: 1♀, 1♂, 30. VII. 1997, Bystraya River basin, 30 km north of Ganaly, 53°58.159'N, 157°44.734'E, 390 m alt., A. Saito leg., NSMT.

Distribution. Kamchatka.

Remarks. This subspecies has not been recorded in literature since its original description (Malaise, 1931). It is endemic to Kamchatka.

6. *Tenthredo colon* Klug, 1817

Material examined. Kamchatka Peninsula: 1♀, 3. VII. 1996, 15 km south of Paratunka, 52°49.406'N, 158°09.983'E, 111 m alt., R. B. Kuranishi leg., CBM-ZI 82265; 1♀, 27. VII. 1997, Poperechnaya River, Bystraya River basin, 17 km from main road, 53°23.300'N, 157°41.130'E, 320 m alt., A. Saito leg., CBM-ZI 82264.

North Kuril Islands: 1♀, 14. VII. 1997, Mt. Ebeko, Paramushir I., 50°41'N, 156°03'E, 200–960 m alt., A. Saito leg., CBM-ZI 82266; 1♂, same data, CBM-ZI 82267; 1♂, 17. VII. 1997, Shelekhovo to Shimoyur River, Kuril Islands, Paramushir I., 50°22.012'N–50°21.764'N, 155°36.677'E–155°34.228'E, 0–100 m alt., A. Saito leg., CBM-ZI 82268.

Distribution. Europe, Siberia, Russian Far East, Japan.

Remarks. This species is widely distributed in the Palearctic Region. It was recorded from Kamchatka by Forsius (1929) and Malaise (1931), and from Kunashiri, Etorofu and Urup Islands by Takeuchi (1955) under the name of *Tenthredella colon eburneifrons* (Kirby, 1882). This is the first record from the North Kurils (Paramushir Island).

7. *Tenthredo finschi finschi* Kirby, 1882

Material examined. Kamchatka Peninsula: 1♀, 29. VII. 1997, Poperechnaya River, Bystraya River basin, 17 km from main road, 53°23.300'N, 157°41.130'E, 320 m alt., A. Saito leg., CBM-ZI 82269; 3♀, 3. VIII. 1997, Mt. Vachkazhets, upper part of Takhkoloch River, Basin of Plotnikova, 53°05.200'N, 157°52.711'E, 470 m alt., A. Saito leg., CBM-ZI 82270–82272; 1♀, same data, NSMT; 1♀, 4. VIII. 1997, Mt. Vachkazhets, upper part

of Takhkoloch River, Basin of Plotnikova, 53°04'N, 157°50'E, 400 m alt., A. Saito leg., CBM-ZI 82273; 1♂, 9. VII. 1997, Tikhayia River, about 30 km from Petropavlovsk-Kamchatskiy, 53°04.718'N, 158°22.383'E, 40 m alt., A. Saito leg., CBM-ZI 82274.

Distribution. Western Siberia, China to the Russian Far East.

Remarks. This flower-visiting eastern Palearctic species was recorded from Kamchatka by Enslin (1926, under the name of *Tenthredella conjugata*), Forsius (1928, under the name of *Tenthredella kohli*) and Malaise (1931). Populations in the South Kurils and Japan represent a dark-colored subspecies, *T. finschi seguro* Takeuchi, 1956. The Kamchatka specimens examined belong to the nominotypical subspecies.

8. *Tenthredo mesomela* Linnaeus, 1758

Material examined. Kamchatka Peninsula: 1♀, 1. VIII. 1997, Mt. Vachkazhets, upper part of Takhkoloch River, Basin of Plotnikova, 53°04.864'N, 157°55.044'E, 550 m alt., A. Saito leg., CBM-ZI 82275; 1♀, 3. VIII. 1997, Mt. Vachkazhets, upper part of Takhkoloch River, Basin of Plotnikova, Kamchatka Pen., 53°05.200'N, 157°52.711'E, 470 m alt., A. Saito leg., CBM-ZI 82276; 1♂, 2. VIII. 1997, Mt. Vachkazhets, upper part of Takhkoloch River, Basin of Plotnikova, 53°04'N, 157°55.56'E, 550–730 m alt., A. Saito leg., CBM-ZI 82277.

Distribution. Europe, Siberia, Russian Far East, Japan.

Remarks. This is a widely distributed Palearctic species. Enslin (1926), Forsius (1928, 1929) and Malaise (1931) recorded it from Kamchatka under the name of *T. mesomelas*.

**9. *Tenthredo mioceras stulta*
Jakovlev, 1891**

Material examined. Kamchatka Peninsula: 1♀, 3. VIII. 1997, Mt. Vachkazhets, upper part of Takhkoloch River, Basin of Plotnikova, 53°05.200'N, 157°52.711'E, 470 m alt., R. B. Kuranishi leg., CBM-ZI 82278; 1♂, same data, NSMT.

North Kuril Islands: 1♂, 13. VII. 1997, 3–8 km south of Severo-Kuril'sk, Paramushir I., 50°37.7'N, 156°08'E, 5–30 m alt., A. Saito leg., NSMT.

Distribution. Western Siberia to the Rus-

sian Far East.

Remarks. This subspecies, widespread in the eastern Palearctic region, was recorded from Kamchatka by Enslin (1926), Forsius (1929), and Malaise (1931). All the authors treated it as a distinct species. Zhelochovtsev and Zinovjev (1996), on the other hand, treated it as a subspecies of *T. mioceras*. Here we follow the latter interpretation. Takeuchi (1934) recorded this subspecies from Paramushir Island, though it was omitted, probably accidentally, in his later list of Kuril sawflies (Takeuchi, 1955). From Shumshu Island, Ermolenko (1981) recorded this subspecies as a distinct species.

**10. *Tenthredo ferruginea ferruginea*
Schränk, 1776**

Material examined. **North Kuril Islands:** 1♀, 14. VII. 1997, Matrosskaya River, near Severo-Kuril'sk, Paramushir I., 50°39.698'N, 156°05.489'E, 90 m alt., R. B. Kuranishi leg., CBM-ZI 82279; 1♀, 16. VII. 1997, Shelekhovo, Paramushir I., 50°22.012'N, 155°36.677'E, 10 m alt., A. Saito leg., NSMT.

Distribution. Europe, Siberia, Russian Far East, Japan.

Remarks. This widely distributed Palearctic species was recorded from Kunashiri and Etorofu Islands by Takeuchi (1955) and from Paramushir Island by Ermolenko (1981). Ermolenko (1981) proposed *Tenthredo ferruginea* Schrank *fuscicornis* forma nov. based on the specimens from Paramushir Island, but this is an infrasubspecific name and thus unavailable under the ICZN.

11. *Tenthredo silensis* O. Costa, 1859

Material examined. **North Kuril Islands:** 3♀, 21. VII. 1997, Lake Bol'shoye, Shumshu I., 50°46.230'N, 156°15.339'E, 15 m alt., R. B. Kuranishi leg., CBM-ZI 82280–82282; 1♀, 1997. 7. 14, Matrosskaya River, near Severo-Kuril'sk, Paramushir I., 50°39.698'N, 156°05.489'E, 90 m alt., R. B. Kuranishi leg., CBM-ZI 82283; 1♀, 1997. 7. 24, 4 km north of Severo-Kuril'sk, Paramushir I., 50°42.954'N, 156°07.865'E, 100 m alt., A. Saito leg., NSMT; 1♂, 1997. 7. 22, Lake Bol'shoye, Shumshu I., 50°46.230'N, 156°15.339'E, 15 m alt., R. B. Kuranishi leg., CBM-ZI 82284; 1♂, 1997. 7. 21, Lake Bol'shoye, Shumshu I., 50°46.230'N, 156°

15.339'E, 15 m alt., A. Saito leg., NSMT.

Distribution. Europe, Siberia, Russian Far East, Japan.

Remarks. This species also has a wide distributional range in the Palearctic Region. In the Kurils, Takeuchi (1934) and Ermolenko (1981) recorded it from Paramushir Island. The specimens from Shumshu Island represent the first record from this island. According to Enslin (1920), the "Metapleuren" of the male of this species is entirely black, whereas the two specimens examined have a largely pale metapleuron. Ermolenko (1981) proposed *Tenthredo limbata* Klug *nigricornis* forma nov., an unavailable infrasubspecific name, from Paramushir Island.

12. *Tenthredo olivacea* Klug, 1817

Material examined. **Kamchatka Peninsula:** 1♀, 5. VII. 1996, Bystraya River (Riverside), 11 km north of Malki, R. B. Kuranishi leg., CBM-ZI 82285; 1♀, 17. VII. 1996, Mt. Vachkazhetz Volcano, near Malki, R. B. Kuranishi leg., CBM-ZI 82286; 1♀, 12. VII. 1996, Lotnaya River (Riverside), near Azhabach'ye lake, R. B. Kuranishi leg., CBM-ZI 82287; 1♂, 14. VII. 1996, Djakonovskaya Lake, near Azhabach'ye Lake, 1♀, R. B. Kuranishi leg., CBM-ZI 82316; 7. VII. 1997, 14 km south of Paratunka, 52°50.070'N, 158°08.610'E, R. B. Kuranishi leg., CBM-ZI 82288; 1♀, 7. VII. 1997, 5 km west of Mt. Vilyuchinsky, 52°41.931'N, 158°10.424'E, 154 m alt., A. Saito leg., CBM-ZI 82289; 1♀, 2♂, 27. VII. 1997, Poperechnaya River, Bystraya River basin, 17 km from main road, 53°23.300'N, 157°41.130'E, 320 m alt., A. Saito leg., CBM-ZI 82290, 82307, 82308; 1♂, 29. VII. 1997, Poperechnaya River, Bystraya River basin, 17 km from main road, 53°23.300'N, 157°41.130'E, 320 m alt., A. Saito leg., CBM-ZI 82309; 7♀, 1♂, 30. VII. 1997, Bystraya River basin, 30 km north of Ganaly, 53°58.159'N, 157°44.734'E, 390 m alt., A. Saito leg., CBM-ZI 82291–82297, 82310; 2♀, 1♂, 1. VIII. 1997, Mt. Vachkazhets, upper part of Takhkoloch River, Basin of Plotnikova, 53°04.864'N, 157°55.044'E, 550 m alt., A. Saito leg., CBM-ZI 82298, 82299, 82311; 1♀, 2. VIII. 1997, Mt. Vachkazhets, upper part of Takhkoloch River, Basin of Plotnikova, 53°04'N, 157°55'E, 550–730 m alt., A. Saito leg., CBM-ZI 82300; 4♀, 1♂, 3.

VIII. 1997, Mt. Vachkazhets, upper part of Takhkoloch River, Basin of Plotnikova, 53° 05.200'N, 157°52.711'E, 470 m alt., A. Saito leg., CBM-ZI 82301–82304, 82312; 2♀, 3♂, 4. VIII. 1997, Mt. Vachkazhets, upper part of Takhkoloch River, Basin of Plotnikova, 53° 04'N, 157°50'E, 400 m alt., A. Saito leg.; CBM-ZI 82305, 82306, 82313–82315.

North Kuril Islands: 1♀, 1♂, 13. VII. 1997, 3–8 km south of Severo-Kuril'sk, Paramushir I., 50°37.7'N, 156°08'E, 5–30 m alt., A. Saito leg., CBM-ZI 82322, 82334; 2♀, 1♂, 14. VII. 1997, Mt. Ebeko, Paramushir I., 50°41'N, 156°03'E, 200–960 m alt., A. Saito leg., CBM-ZI 82320, 82321, 82335; 2♂, 14. VII. 1997, Matrosskaya River, near Severo-Kuril'sk, Paramushir I., R. B. Kuranishi leg., CBM-ZI 82343, 82344; 1♀, 17. VII. 1997, Shelekhovo to Shimoyur River, Paramushir I., 50°22.012'N–50°21.764'N, 155°36.677'E–155°34.228'E, 0–100 m alt., R. B. Kuranishi leg.; CBM-ZI 82317; 2♀, 2♂, same locality, A. Saito leg., CBM-ZI 82318, 812319, 82336, 82337; 1♀, 19. VII. 1997, Shelekhovo, Paramushir I., 50°22.012'N, 155°36.677'E, 10 m alt., A. Saito leg., CBM-ZI 82323; 1♂, 21. VII. 1997, Lake Bol'shoie, Shumshu I., 50°46.230'N, 156°15.339'E, 15 m alt., A. Saito leg., CBM-ZI 82330; 6♀, 5♂, 22. VII. 1997, Lake Bol'shoie, Shumshu I., 50°46.230'N, 156°15.339'E, 15 m alt., A. Saito leg., CBM-ZI 82324–82329, 82338–82342; 3♀, 24. VII. 1997, 4 km north of Severo-Kuril'sk, Paramushir I., 50°42.954'N, 156°07.865'E, 100 m alt., A. Saito leg., CBM-ZI 82331–82333.

Distribution. Europe, Siberia, Russian Far East, Japan.

Remarks. This species is widely distributed in the Palearctic region. Enslin (1926), Forsius (1928), and Malaise (1931) recorded it from Kamchatka. As Enslin (1926) noted, this species seems to be one of the commonest sawflies in Kamchatka. Takeuchi (1933, 1934, 1955) and Ermolenko (1981) already recorded this species from Paramushir, Shumshu and Alaid Islands. Ermolenko (1981) and Takeuchi (1955) used the names "*Tenthredo olivacea takedae* Mats." and "*Tenthredella olivacea takedae* (Matsumura, 1912)," respectively, while Takeuchi (1933, 1934) treated *T. takedae* as a synonym of *T. olivacea*, commenting that "Dr. R. Malaise

agrees with me in treating *Tenthredo takedae* Matsumura as a synonym of *olivacea*." The validity of Matsumura's taxon should be reexamined with more material.

13. *Tenthredo decens* Zhelochovtsev, 1939

Material examined. **Kamchatka Peninsula:** 1♀, 27. VII. 1997, Poperechnaya River, Bystraya River basin, 17 km from main road, 53° 23.300'N, 157°41.130'E, 320 m alt., A. Saito leg., NSMT.

Distribution. Europe, eastern Siberia, Russian Far East.

Remarks. This species was originally described from Kamchatka (Zhelochovtsev, 1939) and is now known also from Europe and eastern Siberia (Zhelochovtsev and Zin-ovjev, 1996).

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カムチャツカおよび北千島からの *Tenthredo* 属ハバチ類の記録 (昆虫綱ハチ目ハバチ科)

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カムチャツカおよび北千島（パラムシル島，シュムシュ島）で採集されたハチ目ハバチ科 *Tenthredo* 属に含まれるハバチ類を記録した。カムチャツカからは10種，北千島からは未同定の一種を含む7種，あわせて13種が記録された。これらのうち *Tenthredo colon* Klug は北千島初記録（パラムシル島），*T. silensis* O. Costa はシュムシュ島から初めての記録となる。