

Third contribution to the knowledge of the Symphyta (Hymenoptera) from Turkey

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KAPLAN, E. & HARIS, A.: *Third contribution to the knowledge of the Symphyta (Hymenoptera) from Turkey.*

Abstract: The present paper is the third part of the faunistic investigation of the Anatolian sawfly fauna. The so far recorded 58 species is extended to 64 species. *Tenthredo (Tenthredo) brevivertex turkestanica* Forsius, 1930 is new species to the Turkish fauna.

Keywords: Hymenoptera, Symphyta, new record, Bingöl, Diyarbakır, Turkey

Introduction

The present paper is the third part of the faunistic investigation of the Anatolian sawfly fauna (KAPLAN et al. 2018, KAPLAN & HARIS 2021b). Additionally, one new Argid species was described (KAPLAN & HARIS 2021a). Last year, we continued the investigation of the Anatolian sawfly fauna by reporting 255 collected specimens of 23 species from Bingöl and Diyarbakır provinces of Turkey. This way, the so far recorded 58 species is extended to 64 species.

Material and Methods

The first author did regular field work with sweeping the vegetation of meadows and pastures in Bingöl and Diyarbakır provinces of Anatolia from March till October.

The collected material is deposited partly in the Rippl-Rónai Museum, Kaposvár and partly in the Atatürk University, Biodiversity Application and Research Center, Erzurum, Turkey and in the Bingöl University, Faculty of Agriculture, Department of Plant Protection, Bingöl, Turkey.

For the identification of the specimens, we consulted the comprehensive works of ZHELOCHOVTSEV 1988, MACEK et al. 2020, LACOURT 2020 and BENSON 1968 completed with other papers as ENSLIN 1910a,b, TAEGER 1992 and GUSSAKOVSKIY 1935.

For the distribution and occurrence of species in Turkey BENSON 1968, ÇALMAŞUR & ÖZBEK 2004a,b, 2006, ÇALMAŞUR 2006, 2019, 2020, CHEVIN & CHENON 1982, ROLLER & HARIS 2008, SUNDUKOV 2017, ÖRGEN & BASIBÜYÜK 2006, KOÇAK & KEMAL 2015, MUTLU 2019 and ROLLER 1999 were consulted.

List of species

Cimbicidae

Corynis crassicornis (Rossi, 1790)

Bingöl: Merkez: Kardeşler, N38°54'39.23", E40°38'29.93", 1099 m, 13.06.2021, 1 ♀; Merkez: Kardeşler, N38°55'34.81", E40°38'35.70", 115 m, 12.06.2021, 1 ♂; Merkez: Beyaztoprak, N8°54'53.68", E40°37'25.71", 1067 m, 06.06.2021, 1 ♂. **Diyarbakır:** Eğil: Yatir, N38°48'21.94", E40°33'16.50", 723 m, 24.04.2021, 1 ♂.

Sporadic, Western Palaearctic species. Hosts are *Sedum* spp. (*S. album*, *S. acre* and *S. sexangulare*).

Argidae

Arge cyanocrocea (Förster, 1771)

Bingöl: Kiğı: Baklalı, N39°14'18.36", E40°26'25.80", 1126 m, 30.05.2021, 1 ♂; Merkez: Çeltiksuyu, N38°51'37.39", E40°34'03.65", 1013 m, 21.05.2021, 1 ♂, 05.06.2021, 1 ♂; Kiğı: Duranlar, N39°15'14.64", E40°21'01.82", 1134 m, 30.05.2021, 1 ♀, 1 ♂; Merkez: Beyaztoprak, N38°54'53.68", E40°37'25.71", 1067 m, 06.06.2021, 1 ♂; Merkez: Kardeşler, N38°54'39.23", E40°38'29.93", 1099 m, 06.06.2021, 1 ♂.

Frequent. Known host-plant: *Rubus idaeus*. Western Palaearctic.

Arge enodis (Linné, 1767)

Bingöl: Merkez: Çeltiksuyu, N38°52'16.89", E40°33'45.63", 1013 m, 05.06.2021, 1 ♀.

Frequent, Palaearctic species. Host plants: *Salix* spp.

Arge melanochra (Gmelin, 1790)

Bingöl: Merkez: Beyaztoprak, N38°54'53.68", E40°37'25.71", 1067 m, 06.06.2021, 1 ♂; Merkez: Kardeşler, N38°55'34.81", E40°38'35.70", 115 m, 01.06.2021, 1 ♀.

Common species. Hostplant: *Crataegus oxycantha*. Western Palaearctic.

Sterictiphora angelicae (Panzer, 1799)

Bingöl: Merkez: Beyaztoprak, N38°54'53.68", E40°37'25.71", 1067 m, 22.05.2021, 1 ♂; Merkez: Kardeşler, N38°54'39.23", E40°38'29.93", 1099 m, 13.06.2021, 1 ♂; Genç: Dereköy, N38°45'03.44", E40°40'08.47", 1363 m, 08.05.2021, 1 ♂; Kiğı: Demirkanat, N39°13'03.38", E40°19'55.88", 1289 m, 29.05.2021, 1 ♂; Kiğı: Baklalı, N39°14'18.36", E40°26'25.80", 1126 m, 30.05.2021, 1 ♂. **Diyarbakır:** Hani: Amil, N38°24'13.01", E40°20'08.23", 908 m, 25.04.2021, 1 ♂; Eğil: Selemnköy, N38°19'30.64", E40°10'14.79", 771 m, 24.04.2021, 1 ♂; Dicle: Döğer, N38°21'15.55", E40°13'31.17", 735 m, 24.04.2021, 1 ♂; Eğil: Yatir, N38°48'21.94", E40°33'16.50", 723 m, 24.04.2021, 1 ♂.

Frequent, Western Palaearctic species. Larva on *Prunus*.

Tenthredinidae**Dolerinae**

Dolerus (Dolerus) hispanicus Mocsáry, 1881

Bingöl: Merkez: Çeltiksuyu, N38°51'37.39", E40°34'03.65", 1013 m, 21.05.2021, 1 ♂; Merkez: Ekinyolu, N38°54'00.00", E40°50'50.75", 1036 m, 01.06.2021, 1 ♂.

Frequent. North Mediterranean, Anatolian and Persian.

Selandrinae*Selandria serva* (Fabricius, 1793)**Diyarbakır:** Lice: Budak, N38°24'35.20", E40°44'55.67", 867 m, 29.04.2021, 1 ♂; Hani: Serenköy, N38°24'58.07", E40°29'41.13", 994 m, 25.04.2021, 1 ♂.Frequent, Palaearctic species. Host plants: *Poaceae*, *Carex* spp. and *Juncus* spp.**Allantinae***Athalia bicolor* Serville, 1823**Bingöl:** Genç: Yağızca, N38°48'35.03", E40°45'36.73", 1140 m, 08.05.2020, 1 ♂; Genç: Sürekli, N38°46'01.97", E40°35'51.85", 1036 m, 08.05.2021, 1 ♀.Frequent. Western Palaearctic species. Host plant: *Ranunculus* spp.*Athalia circularis* ssp. *circularis* (Klug, 1815)**Bingöl:** Merkez: Sarıçiçek, N38°55'28.42", E40°35'44.57", 1040 m, 12.06.2021, 1 ♂; Yayladere: Günlük, N39°10'19.47", E40°07'41.06", 1144 m, 30.05.2021, 1 ♂.Frequent. Host plants: *Arctium lappa*, *Ajuga reptans*, *Veronica beccabunga*, *V. longifolia*, *V. officinalis*, *Alliaria petiolata*, *Glechoma hederacea*, *Melampyrum*, *Capsella* and *Lycopus* spp. Palaearctic.*Athalia cordata* Serville, 1823**Bingöl:** Merkez: Gözeleri, N38°51'17.14", E40°40'36.42", 1153 m, 20.05.2021, 1 ♀. **Diyarbakır:** Silvan: Dolapdere, N38°18'30.36", E40°53'09.11", 910 m, 05.04.2021, 1 ♀; Solhan: Hazarşah, N38°68'28.71", E40°35'16.59", 1311 m, 26.05.2021, 1 ♀.Frequent. Western Palaearctic species. Larva on *Misopates orontinum*, *Antirrhinum majus*, *Ajuga reptans*, *Teucrium scorodonia* and *Plantago* spp.**Blennocampinae***Eutomostethus gagathinus* (Klug, 1816)**Bingöl:** Merkez: Kardeşler, N38°55'34.81", E40°38'35.70", 115 m, 12.06.2021, 1 ♀. Sporadic. Hostplant *Carex paniculata*. Western Palaearctic.**Tenthredininae***Macrophya (Macrophya) consobrina* Mocsáry, 1881**Bingöl:** Merkez: Köprübasi, N37°59'64.39", E40°22'59.69", 602 m, 21.03.2021, 1 ♀. Sporadic, Middle Eastern and Anatolian species.*Macrophya (Macrophya) diversipes* (Schrank, 1782)**Bingöl:** Merkez: Beyaztoprak, N38°54'53.68", E40°37'25.71", 1067 m, 22.05.2021, 1 ♂. Frequent. Hostplant unknown. European, Caucasian and Anatolian species.*Macrophya (Macrophya) postica* (Brullé, 1832)**Bingöl:** Adakli: Gökçeli, N39°13'09.97", E40°24'18.24", 1195 m, 29.05.2021, 4 ♀, 1 ♂; Adakli: Kamışgölü, N39°13'04.16", E40°25'56.89", 1215 m, 29.05.2021, 5 ♀; Genç: Dereköy, N38°45'03.44", E40°40'08.47", 1363 m, 08.05.2021, 4 ♀; Genç: Dilektaş, N38°46'06.45", E40°46'27.64", 1653 m, 09.05.2021, 4 ♀, 1 ♂, 08.05.2021, 2 ♀, 1 ♂; Genç: Mesedali, N38°47'51.80", E40°38'13.05", 1004 m, 08.05.2021, 2 ♀, 1 ♂; Genç: Sürekli, N38°46'01.97", E40°35'51.85", 1036 m, 08.05.2021, 2 ♀; Genç: Yağızca, N38°48'35.03", E40°45'36.73", 1140 m, 08.05.2021, 2 ♀, 1 ♂, 09.05.2021, 4 ♀; Karlıova: Derinçay, N38°08'13.50", E 40°51'53.21", 1697 m, 21.05.2021, 1 ♀, 27.05.2021, 3 ♀, 1 ♂; Karlıova: Hacilar, N38°05'13.77", E40°48'24.58", 16474 m,

27.05.2021, 1 ♀, 2 ♂s; Karlıova: Suduragi, N38°05'13.77", E40°48'24.58", 1061 m, 27.05.2021, 3 ♀; Kiğı: Baklalı, N39°14'18.36", E40°26'25.80", 1126 m, 30.05.2021, 1 ♀; Kiğı: Demirkanat, N39°13'03.38", E40°19'55.88", 1289 m, 29.05.2021, 2 ♀; Kiğı: Duranlar, N39°15'14.64", E40°21'01.82", 1134 m, 30.05.2021, 3 ♀; Merkez: Beyaztoprak, N38°54'53.68", E40°37'25.71", 1067 m, 22.05.2021, 2 ♀, 1 ♂; 06.06.2021, 1 ♀, 13.05.2021, 1 ♀; Merkez: Büyüktökren, N38°49'54.31", E40°34'21.97", 1008 m, 19.05.2021, 3 ♀, 2 ♂s, 05.06.2021, 2 ♂s; Merkez: Çayağzı, N38°47'57.65", E40°33'40.63", 999 m, 06.05.2021, 1 ♀, 2 ♂s, 19.05.2021, 2 ♀; Merkez: Çeltiksuyu, N38°51'37.39", E40°34'03.65", 999 m, 21.05.2021, 2 ♀, 05.06.2021, 4 ♀, 1 ♂; Merkez: Ekinyolu, N38°54'00.00", E40°50'50.75", 1036 m, 22.05.2021, 2 ♀, 2 ♂s, 01.06.2021, 3 ♀, 12.06.2021, 3 ♀; Merkez: Garip, N38°47'20.82", E40°33'24.93", 995 m, 19.05.2021, 3 ♀, 05.06.2021, 2 ♂s; Merkez: Kardeşler, N38°55'34.81", E40°38'35.70", 115 m, 22.05.2021, 2 ♂s, 01.06.2021, 1 ♂. 12.06.2021, 2 ♀; Merkez: Kardeşler, N38°54'39.23", E40°38'29.93", 1099 m, 21.05.2021, 1 ♀, 22.05.2021, 1 ♀, 25.05.2021, 1 ♀, 01.06.2021, 2 ♀, 13.06.2021, 2 ♀, 2 ♂s; Merkez: Sarıçiçek, N38°55'28.42", E40°35'44.57", 1040 m, 21.05.2021, 1 ♀, 3 ♂s, 06.06.2021, 4 ♀, 2 ♂s, 12.06.2021, 1 ♀; Solhan: Bozkanat, N38°51'56.46", E40°52'41.10", 1230 m, 23.05.2021, 1 ♀, 2 ♂s; Solhan: Düzağaç, N38°53'12.79", E40°55'38.36", 1282 m, 23.05.2021, 3 ♀, 1 ♂; Yayladere: Günlük, N39°10'19.47", E40°07'41.06", 1144 m, 13.06.2021, 3 ♀, 2 ♂; Yayladere::Yaylabağ, N39°10'24.04", E40°05'41.14", 1170 m, 30.05.2021, 2 ♀, 2 ♂. **Diyanbakır**: Dicle: Döğer, N38°21'15.55", E40°13'31.17", 735 m, 24.04.2021, 1 ♀; Dicle: Meydan, N38°19'14.62", E40°13' 54.99", 730 m, 24.04.2021, 4 ♀, 1 ♂; Dicle: Sergenli, N38°19'30.64", E40°13'38.46", 750 m, 24.04.2021, 3 ♀; Eğil: Meşeler, N38°14'13.79", E40°11'33.11", 845 m, 24.04.2021, 1 ♀, 2 ♂s; Eğil: Selemnköy, N38°19'30.64", E40°10'14.79", 771 m, 24.04.2021, 2 ♀; Eğil: Yatır, N38°48'21.94", E40°33'16.50", 723 m, 24.04.2021, 3 ♂s; Hani: Amil, N38°24'13.01", E40°20'08.23", 908 m, 25.04.2021, 3 ♀; Hani: Serenköy, N38°24'58.07", E40°29'41.13", 994 m, 24.04.2021, 2 ♀; Lice: Angül, N38°24' 23.81", E40°33'50.23", 867 m, 29.04.2021, 1 ♀, 2 ♂s; Lice: Budak, N38°24'35.20", E40°44'55.67", 866 m, 25.04.2021, 1 ♀; Lice: Ergin, N38°30'09.96", E40°32'21.33", 1016 m, 23.04.2021, 1 ♂, 25.04.2021, 1 ♀; Lice: Kiralan, N38°28'54.61", E40°33'10.12", 982 m, 25.04.2021, 3 ♀; Kulp: Çağlayan, N38°24'42.41", E40°48'47.46", 874 m, 29.04.2021, 2 ♀, 2 ♂.

Common. Hostplant unknown. Western Palaearctic species.

Tenthredo (Cephaledo) bifasciata ssp. *bifasciata* O.F. Müller, 1766

Bingöl: Solhan: Bozkanat, N38°51'56.46", E40°52'41.10", 1230 m, 23.05.2021, 1 ♀; Solhan: Düzağaç, N38°53'12.79", E40°55'38.36", 1282 m, 23.05.2021, 1 ♂; Merkez: Kardeşler, N38°54'39.23", E40°38'29.93", 1099 m, 21.05.2021, 1 ♂; Karlıova: Suduragi, N38°05'13.77", E40°48'24.58", 1061 m, 27.05.2021, 1 ♂; Hani: Serenköy, N38°24'58.07", E40°29'41.13", 994 m, 25.04.2021, 1 ♂; Merkez: Sarıçiçek, N38°55'28.42", E40°35'44.57", 1040 m, 12.06.2021, 1 ♂; Merkez: Ekinyolu, N38°54'00.00", E40°50'50.75", 1036 m, 12.06.2021, 1 ♂; Karlıova: Hacılar, N38°05'13.77", E40°48'24.58", 16474 m, 27.05.2021, 1 ♂; Merkez: Çayağzı, N38°47'57.65", E40°33'40.63", 999 m, 19.05.2021, 1 ♂. **Diyanbakır**: Dicle: Döğer, N38°21'15.55", E40°13'31.17", 735 m, 24.04.2021, 1 ♀; Lice: Ergin, N38°30'09.96", E40°32'21.33", 1016 m, 23.04.2021, 1 ♀; Kulp: Çağlayan, N38°24'42.41", E40°48'47.46", 874 m, 29.04.2021, 1 ♂.

Frequent, Mediterranean, Anatolian and Iranian species, which sometimes occurs in Central Europe either. Hostplant unknown, probably *Aegopodium*.

Tenthredo (Tenthredo) brevivertex turkestanica Forsius, 1930

Diyarbakır: Karlıova: Derinçay, N39°08'13.50", E40°51'53.21", 1697 m, 27.05.2021, 1 ♀. Turanian and Anatolian species. New record for the Turkish fauna.

Tenthredo (Cephaledo) costata Klug, 1817

Bingöl: Merkez: Ekinyolu, N 38°54'00.00", E40°50'50.75", 1036 m, 01.06.2021, 1 ♂. Frequent. Hostplant *Chondrilla juncea* and *Ch. ramosissima*. Northern Mediterranean and Anatolian species. Central Europe is the Northern border of its distribution where it appears periodically.

Tenthredo (Cephaledo) excellens (Konow, 1886)

Material examined: **Bingöl:** Genç: Yağızca, N38°48'35.03", E40°45'36.73", 1140 m, 08.05.2020, 1 ♀. **Diyarbakır:** Hani: Amil, N38°24'13.01", E40°20'08.23", 908 m, 25.04.2021, 1 ♀.

Frequent. Hostplant: *Lactuca serriola*. Mediterranean, Central European, Middle Eastern, Caucasian and Anatolian species.

Tenthredo (Elinora) krausi Blank & Taeger, 2006

Bingöl: Karlıova: Kaşıkçı, N39°24'12.94", E40°45'36.73", 1917 m, 01.06.2021, 1 ♀; Genç: Eriçek, N38°34'05.02", E40°15'15.02", 1067 m, 17.05.2021, 1 ♀; Genç: Kepçeli, N38°49'27.91", E40°48'57.90", 1570 m, 18.05.2021, 1 ♂; Merkez: Göltepesi, N38°57'05.89", E40°35'40.86", 1498 m, 22.05.2021, 1 ♂; Merkez: Kumgeçit, N38°47'23.71", E40°36'52.81", 996 m, 24.05.2021, 1 ♂; Merkez: Gökçekanat, N38°57'08.41", E40°20'09.83", 0298 m, 15.05.2021, 1 ♂; Merkez: Yamaç: Bucağı, N38°46'12.67", E40°25'59.75", 1364 m, 23.05.2021, 1 ♂. **Diyarbakır:** Çermik: Kulaç: N38°24'55.61", E39°21'51.76", 1095 m, 24.03.2021, 1 ♀, 1 ♂; Silvan: Ormandis, N38°14'37.23", E41°01'45.69", 724 m, 05.04.2021, 1 ♀; Hazro: Kavaklıboğaz, N38°15'57.72", E40°41'35.16", 1335 m, 04.04.2021, 1 ♀; Hani: Topçular, N38°27'51.53", E40°24'31.36", 930 m, 27.03.2021, 1 ♀; Merkez: Kıtılbul, N37°55'10.26", E40°15'01.06", 536 m, 21.03.2021, 1 ♀; Silvan: Ari, N38°11'34.88", E41°03'47.12", 947 m, 05.04.2021, 1 ♀; Eğil: Merkez, N38°14'54.73", E40°06'08.25", 801 m, 18.05.2021, 1 ♂; Dicle: Asağısinci, N 38° 25' 11.68", E 40° 05' 66.57", 948 m, 28. 03. 2021, 1 ♂.

Frequent. Sub-recently described species. Host-plant unknown. Middle Eastern-Anatolian species, known from Syria and Turkey.

Tenthredo (Elinopsis) vittata (Kriechbaumer, 1869)

Diyarbakır: Karlıova: Derinçay, N39°08'13.50", E40°51' 53.21", 1697 m, 27.05.2021, 1 ♀. Sporadic Eastern Mediterranean-Anatolian species.

Tenthredo (Zonuledo) zonula Klug, 1817

Bingöl: Merkez: Sarıççek, N38°55'28.42", E40°35'44.57", 1040 m, 12.06.2021, 1 ♀; Merkez: Garip, N38°47'20.82", E40°33'24.93", 995 m, 05.06.2021, 1 ♀; Merkez: Kaleönü, N38°53'28.31", E40°33'25.74", 1025 m, 21.05.2021, 1 ♀; **Diyarbakır:** Hazro: Koçbaba, N38°16'09.87", E40°50'45.99", 1021 m, 04.04.2021, 1 ♀.

Common. Hostplant: *Hypericum perforatum*. Western Palaearctic species.

Tenthredopsis albonotata (Brullé, 1832)

Bingöl: Adaklı: Hasbağlar, N39°11'01.77", E40°22'23.77", 1569 m, 12.06.2021, 1 ♂; Genç: Yayla: Bucagi, N38°38'26.93", E40°30'49.41", 1275 m, 16.05.2021, 1 ♂; Merkez: Ekinyolu, N38°54'00.00", E40°50'50.75", 1036 m, 12.06.2021, 1 ♂; Merkez: Altınışik,

N 38°49'41.39", E40°27'31.72", 1511 m, 23.05.2021, 1 ♀; Merkez: Ağaçyolu, N38°56'49.59", E40°31'38.93", 1555 m, 23.05.2021, 1 ♀; Merkez: Gökçeli, N38°53'81.05", E40°44'42.29", 1346 m, 25.05.2021, 1 ♀; Merkez: Kuşburnu, N38°54'19.64", E40°48'13.49", 1584 m, 25.05.2021, 1 ♀; Karlıova: Cilligöl, N39°10'13.31", E40°55'33.91", 1854 m, 31.05.2021, 1 ♀; Genç: Çanakçı, N38°47'07.85", E40°43'50.07", 1312 m, 18.05.2021, 1 ♀; Solhan: Merkez, N38°57'36.43", E41°00'48.83", 1333 m, 24.05.2021, 1 ♀.

Frequent. Hostplant unknown. Eastern Mediterranean and Anatolian species.

Tenthredopsis annuligera (Eversmann, 1847)

Bingöl: Salhan: Ashlanbeyli, N38°45'18.50", E41°05'48.16", 1491 m, 25.05.2021, 1 ♀. **Diyarbakır:** Merkez: Avcısıyu, N38°03'44.35", E39°59' 22.13", 741 m, 23.03.2021, 1 ♀; Hani: Serenköy, N38°24'58.07", E40°29'41.13", 994 m, 25.04.2021, 1 ♀.

Frequent. Hostplant unknown. Eastern Mediterranean, Anatolian and Eastern European species.

Results

255 specimens of 23 species were collected from Bingöl and Diyarbakir provinces of Turkey. The earliest day of capture of sawflies was on 21st of March, the last day was on 13th of June. No sawflies were collected after this date.

Dominant species

The most frequent species are: *Macrophya postica* (Brullé, 1832) with 165 collected specimens, which is 65% of the total collected material.

Rare and interesting species

Tenthredo (*Tenthredo*) *brevivertex turkestanica* Forsius, 1930: It is new species to the Turkish fauna. So far, this species has been known from Kyrgyzstan and Turkestan only (TAEGER 1992). The Anatolian specimen represents melanic color variation with dark legs (see the photo in TAEGER et al. 2018).

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