



ПОДСЕМЕЙСТВО SCELIONIDAE (HYMENOPTERA, PLATYGASTROIDEA,
SCELIONIDAE) ОТ БАЛКАНСКИЯ ПОЛУОСТРОВ И ТУРЦИЯ
V. ТРИБУС SPARASIONINI
SCELIONIDAE SUBFAMILY (HYMENOPTERA, PLATYGASTROIDEA,
SCELIONIDAE), FROM THE BALKAN PENINSULA AND TURKEY
V. TRIBUS SPARASIONINI

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Abstract

A check-list is presented including 24 species of parasitic wasps of the *Sparasionini* on the Balkan peninsula and Turkey: *Sparasion rubrior* Petrov et Kononova, *S. aenescens* Förster, *S. rubescens* Kononova et Petrov, *S. rubridens* Kononova et Petrov, *S. obtusifrons* Kieffer, *S. recens* Kononova et Petrov, *S. tenellum* Kozlov et Kononova, *S. lepidum* Förster, *S. castor* Kononova, *S. punctatissimum* Kieffer, *S. glaucum* Kozlov et Kononova, *S. petrovi* Kononova, *S. raptor* Kononova et Petrov, *S. mucronatum* Kozlov et Kononova, *S. argus* Kononova et Petrov, *S. emarginatum* Kieffer, *S. sulcatum* Kozlov et Kononova, *S. unicolor* Kononova et Petrov, *S. subleve* Kieffer, *S. cephalotes* Latreille, *S. radchenkoi* Kononova, *S. tridens* Kononova et Petrov, *S. arion* Kononova et Petrov, *S. atomus* Kononova et Petrov.

Key words: Hymenoptera, Scelionidae, Sparasionini, Balkan Peninsula, Turkey.

INTRODUCTION

Target: Research of the composition of species of the entomophags by genus *Sparasion* (Sparasionini, Scelioninae) from the Balkan peninsula and Turkey. The species of this genus are registered almost everywhere on earth with the exception of Australia. So far, 118 species are found in the Palearctic region (Kononova, Kozlov, 2008). In Europe we know about 55 species; of them, 14 species are found on the Balkan Peninsula; 2 species are registered in Turkey (Kononova, Petrov, 2001a, 2001b, Petrov, Beyarslan, 2007, Kononova, Kozlov. 2008).

Presented is a faunistic lists with 24 species from tribus Sparasionini by Balkan peninsula and Turkey. For all species are indicated synonymous names (according to Johnson' Catalogue, 1992); distribution of their habitats in geographic districts in Bulgaria (according to Hubenov, 1997); vertical distribution in vegetation zones; altitude of habitats; data of seasonal activity and general distribution.

Biology. Hosts are species of Tettigoniidae (Decticinae) and Stenopelmatidae (Stenopelmatinae).

MATERIALS AND METHODS

The insects have been collected by means of an ento-mological net and Malaise trap. Information on registered species is taken from the literature (Kieffer, 1926; Johnson, 1992; Masner, 1965). The determination of species is according Kononova, Kozlov, 2008. Biogeographic distribution of species is according to a Vigna Taglianti et al, 1999.

Table 1

Vertical vegetation belts in Bulgaria

Belt	Abbreviations	Altitude (m)
Xerothermic oak forests	XO	up to 700
Mesophilous oak hornbeam forests	MOH	from 600–700 to 900-1000
Mesophilous beech forests	MB	from 900–1000 to 1300–1500
Coniferous forests	CF	from 1300–1500 to 2000–2200
Subalpine vegetation	SA	from 2000–2200 to 2500
Alpine vegetation	A	from 2500 to 2925

Table 2

Geographic regions of Bulgaria after Hubenov (1997). *Abbreviation Region*

BSO – Southern Black Sea coast	ROO – Osogovska Planina Mt.
DW – Western Danubian Plain	RRE – East Rhodope Mts.
PBD – Strandzhansko-Derventski district	RPR – Rila Mt.
PBS – Strandzha Mt	RRW – West Rhodope Mts.
PSA – Sarnena Sredna Gora Mts.	SBM – Middle Stara Planina Mts.
PVV – Vitosha Mt.	SPW – Western Predbalkan

Table 3

Abbreviations

BG – Bulgaria; fYU –former Yugoslavia (Serbia); GR – mainland Greece; RO – Romania; TR/Am – Turkey-Asia Minor; TR/Mr/Eu – Turkey, Marmara region/ Euro-pean part; TR/Ag – Turkey, Aegean region; TR/Mdr – Turkey, Mediterranean region.
h – hut; m – monastery; pk – peak; pl – place; r – river; res – reserve; t – town; v – village.

FAUNISIK LIST

Sparasion rubrior Petrov et Kononova, 2001

Sparasion rubrior: Koonova, Petrov, 2001:35, 36; Petrov, Beyarslan, 2007:54; Kononova, Kozlov, 2008: 41, 95.

Male unknown.

Material. Type material: Holotype ♀ BULGARIA, RRW – Balkan v, 10.VII. 1985 (Petrov). Paratypes, ♀ Bulgaria, RRW – Novakovo v, 8.VII.1968 (Germanov).

Vertical distribution: 300-1350 m; XO, MOH, MB.

Seasonal activity: VII.

Zoogeographical category/chorotype: BEB – Balkan endemit from Bulgaria.

Distribution in SE-Europe and Turkey: BG (PBS).

General distribution in Palaearctic: Europe: Bulgaria.

***Sparasion aenescens* Förster, 1856**

Sparasion aenescens: Förster, 1856:104; Thomson, 1859:419; Kieffer, 1926a:283, 289; Kozlov, 1972:649; 1978:618; Kozlov, Kononova, 1990:101, 139; Johnson, 1992:494; Kononova, Petrov, 2001:31; Petrov, Beyarslan, 2007:52; Kononova, Kozlov, 2008:41, 98.

Material. BULGARIA, RRW – Momchil unak h, 27.VII.1985, 1♂; RRE – Daskalovo v (Kardzhali t), 19.VI.2002 (Boyadzhiev), 4♂; ROO – Trite buki h, Mal. trap, 30.VII-17.VIII. 2002, 1♂.

Vertical distribution: 250-1740 m; XO, MOH, MB, CF.

Seasonal activity: VI-VII.

Zoogeographical category/chorotype: ASE/DA – Asian-European species. with disjunctive range.

Distribution in SE-Europe and Turkey: BG (RRE, RRW, ROO).

General distribution in Palaearctic. Europe: Sweden, Germany, France, Italy, Hungary, Moldova, Ukraine, Bulgaria, Russia part of Europe and the Far East (Yakutia). Western Asia: Azerbaijan. Central Asia: Kazakhstan, Uzbekistan, Kirgiziya.

***Sparasion rubescens* Kononova et Petrov, 2001**

Sparasion rubescens: Kononova, Petrov, 2001:36, 37; Petrov, Beyarslan, 2007:52; Kononova, Kozlov, 2008:44, 111.

Male unknown.

Material. Type material: Holotype ♀ BULGARIA, SPW – Reselets h (Cherven bryag t), 22.VII.1992 (S. Petrov).

Vertical distribution: 270 m; XO.

Seasonal activity: VII.

Zoogeographical category/chorotype: BEB– Balkan endemic from BG.

Distribution in SE-Europe and Turkey: BG (SPW).

General distribution in Palaearctic: Europe: Bulgaria.

***Sparasion rubridens* Kononova et Petrov, 2001**

Sparasion rubridens: Kononova, Petrov, 2001:40; Petrov, Beyarslan, 2007:52; Kononova, Kozlov, 2008: 45, 115.

Female unknown.

Material. Type material: Holotype ♂ BULGARIA, PVV– Vitosha Mtn., Kokaly-ane v, 25.VI.1995 (T. Lyubomirov).

Vertical distribution: 650 m; XO.

Seasonal activity: VI.

Zoogeographical category/chorotype: BEB– Balkan endemic from BG.

Distribution in SE-Europe and Turkey: BG (PVV).

General distribution in Palaearctic: Europe: Bulgaria.

***Sparasion obtusifrons* Kieffer, 1906**

Sparasion obtusifrons: Kieffer, 1906b:167, 175; 1926a: 283, 290; Kelner-Pillaut, 1958a: 152; Kozlov, 1978: 618; Kozlov, Kononova, 1990:104, 162; Petrov, 1991:84; Johnson, 1992:499; Kononova, Petrov, 2001:35; Petrov, Beyarslan, 2007:53; Kononova, Kozlov, 2008:45, 115.

Female unknown.

Material. BULGARIA: SBM – Enina v, Mal. trap, 23-27.VII.2000, 5♂, (Langu-rov); BSO – Rezovo v, 5.VIII.1991, 3♂.

Vertical distribution: 20-650 m; XO.

Seasonal activity: VII-VIII.

Zoogeographical category/chorotype: EUR – European species.

Distribution in SE-Europe and Turkey: BG (SBM, BSO).

General distribution in Palaearctic: Europe: Austria, Bulgaria, Ukraine (Crimea).

***Sparasion sulcatum* Kozlov et Kononova, 1990**

Sparasion sulcatus: Kozlov, Kononova, 1990:165,166; Johnson, 1992: 500; Petrov, Beyarslan, 2007:53; *Sparasion sulcatum*: Johnson, 1992:500; Kononova, Kozlov, 2008:45, 117.

Female unknown.

Material. BULGARIA: SBM – Troyan Monastery m, 11.VIII.1986, 1♂; PSA – Turiya pl, 11.VII.1992, 1♂; RRW – Groba pl, 25.VII.1986, 1♂; Progled v, 17.VII.1994, 1♂; PBS – Malko Tarnovo t, 5.VIII.1999, 1♂. BSO – Rezovo v, 5.VIII.1991, 1♂; GREECE; GR-M - Northern Greece, Macedonia, N. Kavallas district, Pangeo mtn, 23.VIII.1993, 1♂; N. Dramas district, Falacro mtn, 22.VIII.1993, 1♂, (Petrov).

Vertical distribution: 20-1400 m; XO, MOH, MB, CF.

Seasonal activity: VII-VIII.

Zoogeographical category/chorotype: SIE/DA – Sibero-European- species with disjunctive range.

Distribution in SE-Europe and Turkey: BG (SBM, PSA, RRW, PBS, BSO); GR (GR-M).

General distribution in Palaearctic: Europe: Bulgaria, Greece. Russian Far East (Primorskii Krai).

***Sparasion recens* Kononova et Petrov, 2001**

Sparasion recens: Kononova, Petrov, 2001:41; Petrov, Beyarslan, 2007:53; Kononova, Kozlov, 2008:46, 120.

Female unknown.

Material. Type material. Holotype ♂, BULGARIA, SBM – Kozya stena h, 5.VIII.1986 (Petrov).

Vertical distribution: 1560 m; MB.

Seasonal activity: VIII.

Zoogeographical category/chorotype: BEB Balkan endemic from BG.

Distribution in SE-Europe and Turkey: BG (SBM).

General distribution in Palaearctic: Europe: Bulgaria.

***Sparasion tenellum* Kozlov et Kononova, 1990**

Sparasion tenellus: Kozlov, Kononova, 1990:103,155; Johnson, 1992:501; Kononova in Kononova, Petrov, 2001:34. Synonymized by Kononova in Kononova, Kozlov (2001); *Sparasion*

lateens: Kononova in Kononova, Petrov, 2001:41; Petrov, Beyarslan, 2007: 53. Synonymized by Kononova, Kozlov (2008:121); *Sparasion tenellum*: Johnson, 1992:501; Kononova, Kozlov, 2008:146, 121.

Material. BULGARIA: DW – Cherven bryag t, 28.VII.1992, 1♂; Knezha t, 24.VII.1992, 1♂, Pelovo t, 24.VII.1992, 2♂; SPW – Reselets h (Cherven bryag t), 26.VII.1992, 1♂.

Vertical distribution: 120-270 m; XO.

Seasonal activity: VII.

Zoogeographical category/chorotype: ASE/DA – Asiatic-European species with disjunctive range.

Distribution in SE-Europe and Turkey: BG (DW, SPW).

General distribution in Palaearctic. Europe: Ukraine, Bulgaria. Central Asia: Kazakhstan.

***Sparasion lepidum* Foerster, 1856**

Sparasion lepidum: Förster, 1856:104; Thomson, 1859c:419; Johnson, 1992:497, 498; Kononova, Kozlov, 2008:47, 123. *Sparasion lepidus*: Kieffer, 1926a:283, 289; Hellen, 1971:18; Kozlov, 1978:618; Kozlov, Kononova, 1990: 101, 138; Johnson, 1992:498; Kononova, Petrov, 2001:36; Petrov, Beyarslan, 2007:54.

Male unknown.

Material. BULGARIA: PBD – Fakiya v, 31.VIII.1991, 1♂.

Vertical distribution: 110 m; XO.

Seasonal activity: VIII.

Zoogeographical category/chorotype: ASE/DA – Asiatic-European species with disjunctive range.

Distribution in SE-Europe and Turkey: BG (PBD).

General distribution in Palaearctic. Europe: Sweden, Germany, Ukraine, Bulgaria, Russia part of Europe and the Far East (Yakutia). Central Asia: Kazakhstan.

***Sparasion cephalotes* Latreille, 1802**

Sparasion cephalotes: Latreille, 1802:315; Johnson, 1992:495; Petrov, Beyarslan, 2007:54; Kononova, Kozlov, 2008:47, 126. *Sparasion frontalis*: Latreille, 1805:230; Kieffer, 1926a:283, 291; Hellen, 1971:18; Kozlov, 1978: 618; Kozlov, Kononova, 1990:104, 168; Johnson, 1992:495, 496, 496; Kononova, Petrov, 2001:36. *Sparasion frontale*: Latreille, 1809: 35. Haliday, 1933:272; Nees ab Esenbeck, 1834: 260; Walker, 1836b:369; Blanchard, 1840:291; Herrich-Schaffer, 1844: Heft 184, tables, 15, 26; Guerin Meneville, 1845:417, plate 68, fig. 3; Förster, 1856:104; Thomson, 1859c:418; Kieffer, 1906b:167, 177; Szabó, 1965: 191-194; Johnson, 1992: 495, 496.

Material. Hungarian Natural History Museum in Budapest: BULGARIA: RPR – Rila Mtn, (1200 m Seehöhe), 12.IX.1928, 2♀, (Birò).

Vertical distribution: 1200 m; MB, CF.

Seasonal activity: IX.

Zoogeographical category/chorotype: ASE/DA – Asiatic-European species with disjunctive range.

Distribution in SE-Europe and Turkey: BG (RPR)

General distribution in Palaearctic. Europe. Germany, France, Austria, Italy (Calabria, isl. Corsica), Hungary, former Czechoslovakia, former Yugoslavia. Ukraine, Moldova, Romania, Bulgaria, Russia part of Europe, Far East (Yakutiya, Irkutsk region). Central Asia: Kazakhstan.

***Sparasion castor* Kononova, 2008**

Sparasion castor: Kononova in Kononova, Kozlov, 2008:67.

Female unknown

Material. Type material: Holotype ♂ BULGARIA, SBM – Maglish t, 24.VIII. 1995 (I. Stoyanov).

Vertical distribution: 360 m; XO.

Seasonal activity: VIII.

Zoogeographical category/chorotype: BEB Balkan endemic from BG.

Distribution in SE-Europe and Turkey: BG (SBM).

General distribution in Palaearctic. Europe: Bulgaria.

***Sparasion argus* Kononova et Petrov, 2001**

Sparasion argus: Kononova, Petrov, 2001:30; Petrov, Beyarslan, 2007:50; Kononova, Kozlov, 2008:37, 74.

Female unknown.

Material. Type material: Holotype ♂, TURKEY, TR/Eg – Mugla–Fethiye, Yanikear, 25.VI. 1998 (M. Aydugdu). Paratypes 2♂ (with data of holotype). *Material.* BULGARIA: SPW – Reselets h (Cherven bryag t), 26.VII.1992, 1♂; BSO – Nesebar t, 22.VII.1992, 1♂.

Vertical distribution: 30-270 m; XO.

Seasonal activity: VI-VII.

Zoogeographical category/chorotype: BSE/BG,TR – Balkan subendemit for BG and TR.

Distribution in SE-Europe and Turkey: BG (SPW, BSO); TR (TR/Ag).

General distribution in Palaearctic. Europe: Bulgaria. Turkey.

***Sparasion punctatissimum* Kieffer, 1906**

Sparasion punctatissimum: Kieffer, 1906b:166, 172; Kelner-Pilault, 1958a:152; Johnson, 1992: 499; Kononova, Kozlov, 2008:37, 75. *Sparasion punctatissimus*: Kieffer 1926a:283; Kozlov, 1978:617; Kozlov, Kononova, 1990:99, 122; Petrov, 1991:83; Johnson, 1992:499; Kononova, Petrov, 2001:30; Petrov, Beyarslan, 2007:51.

Female unknown.

Material. BULGARIA: DW – Knezha t, 24.VII.1992, 1♂, Pelovo t, 24.VII.1992, 1♂; PBD – Fakiya v, 1.VIII.1991, 1♂; PBS – Varovnik v, 1.VIII.1991, 1♂, BSO – Rezovo v, 5.VIII.1991, 1♂.

Vertical distribution: 20-300 m; XO.

Seasonal activity: VII-VIII.

Zoogeographical category/chorotype: EUR – European species.

Distribution in SE-Europe and Turkey: BG (DW, PBD, PBS, BSO).

General distribution in Palaearctic. Europe: Austria, Italy, Ukraine (Crimea), Bulgaria, Russia North Caucasus.

***Sparasion raptor* Kononova et Petrov, 2001**

Sparasion raptor: Kononova, Petrov, 2001:32; Petrov, Beyarslan, 2007:50; Kononova, Kozlov, 2008:37, 76.

Female unknown.

Material. BULGARIA. Type material: Holotype ♂ GREECE, GR-M – N. Xanthi district, Stavroupoli t, 21.VIII. 1993 (Petrov).

Vertical distribution: altitude and dominant plant type localities undetected.

Seasonal activity: VIII.

Zoogeographical category/chorotype: BEG – Balkan endemic from GR.

Distribution in SE-Europe and Turkey: GR (GR-M).

General distribution in Palaearctic. Europe: Greece.

***Sparasion unicolor* Kononova et Petrov, 2001.**

Sparasion unicolor: Kononova, Petrov, 2001:31, 32. Petrov, Beyarslan, 2007:51; Kononova, Kozlov, 2008: 38, 76.

Female unknown

Material. Type material Holotype ♂, BULGARIA, SPW – Reselets h (Cherven bryag t), 14.VII.1991 (S. Petrov). Paratypes (4 pcs): 2 ♂ (with data of holotype); 1 ♂ Paratype: RRW – Dolni Voden v., 23.VII.1989 (Petrov); GREECE, GR-T – N. Xanthi district, Kalifea vill, 21.VIII.1993. (Petrov).

Vertical distribution: 180-270 m; XO.

Seasonal activity: VII-VIII.

Zoogeographical category/chorotype:. BSE/BG, GR – Balkan subendemit for BG and GR.

Distribution in SE-Europe and Turkey: BG (SPW, RRW); GR (GR-T).

General distribution in Palaearctic. Europe: Bulgaria, Greece.

***Sparasion emarginatum* Kieffer, 1906**

Sparasion emarginatum: Kieffer, 1906b:165, 168; Johnson, 1992:496; Kononova, Kozlov, 2008:38, 81. *Sparasion emarginatus*: Kieffer 1926a:282, 284; Bin, 1974:459; Kozlov 1978:617; Kozlov, Kononova, 1990:99, 1119; Johnson, 1992:496, 497; Kononova, Petrov, 2001: 29; Petrov, Beyarslan, 2007:51.

Biology unknown

Mamepuan: BULGARIA: DW – Knezha t, 24.VII.1992, 1♂; Pelovo t, 24.VII. 1992, 1♂, ♂; SPW – Reselets h, 22.VII.1992, 2♂; 23.VII.1992, 1♂; RRW – Kivan pk, 4.VIII.1985, 1♂, Haydutka pk, 3.VIII.1985, 1♂; PBS – Varovnik v, 1.VIII.1991, 1♂; BSO – Nesebar t, 20.VIII.1992, 1♂. Rezovo v, 5.VIII.1991, 1♂; TYRKEY: TR/Eg – Ismir t, Alaga–Maviköse, 2.VIII.1997, 1♂, (M. Yurctcan); Mugla t, Ula–Kizlyaka, 25.VI.1998, 1♂, (O. Çetin); Mugla - Datça, 26.VI.19981, ♂, (O. Çetin); Kimonu-Bollydag, 29.VIII. 2002, 1♂. (M. Yurctcan).

Vertical distribution: 20-1700 m; XO, MOH, MB, CF.

Seasonal activity: VI, VII, VIII.

Zoogeographical category/chorotype: ASE/DA – Asiatic-European species with disjunctive range.

Distribution in SE-Europe and Turkey: BG (DW, SPW, RRW, PBS, BSO); TR (TR/Eg).

General distribution in Palaearctic. Europe: Italy. Ukraine (Crimea), Bulgaria. Western Asia: Azerbaijan. Turkey.

***Sparasion mucronatum* Kozlov et Kononova, 1990**

Sparasion mucronatus: Kozlov, Kononova, 1990:125, 26; Johnson, 1992:498; Kononova, Petrov, 2001:30; Petrov, Beyarslan, 2007:51. *Sparasion mucronatum:* Johnson, 1992:498; Kononova, Kozlov, 2008:39, 83.

Male unknown.

Material. TURKEY: TR/? Bozkaada–Merkez, 8.VII.1995, 1♀ (O. Çetin).

Vertical distribution: altitude and dominant plant type localities undetected.

Seasonal activity: VII.

Zoogeographical category/chorotype: EUR – European species with disjunctive range and irradiation to the TR.

Distribution in SE-Europe and Turkey: TR (TR/?).

General distribution in Palaearctic. Europe: Ukraine (Crimea). Turkey.

***Sparasion glaucum* Kozlov et Kononova 1990**

Sparasion glaucus: Kozlov, Kononova, 1990:127, 128; Johnson, 1992:497. *Sparasion planus:* Kononova in Kononova, Petrov 2001:41, 42; Petrov, Beyarslan, 2007:51. Synonymized by Kononova, Kozlov (2008: 84); *Sparasion glaucum:* Johnson, 1992:497; Kononova, Kozlov, 2008:39, 84.

Male unknown.

Material. BULGARIA: DW – Cherven bryag t, 28.VII.1992, 1♀; BSO – Rezovo v, 5.VIII.1991, 1♀.

Vertical distribution: 20-120 m; XO.

Seasonal activity: VII, VIII.

Zoogeographical category/chorotype: ASE/DA– Asiatic-European species with disjunctive range.

Distribution in SE-Europe and Turkey: BG (DW, BSO).

General distribution in Palaearctic. Europe: Ukraine, Bulgaria. Central Asia: North Kazakhstan.

***Sparasion subleve* Kieffer, 1906**

Sparasion subleve: Kieffer. 1906b:166, 171. Johnson, 1992:500; Kononova, Kozlov, 2008:40, 92. *Sparasion sublevis:* Kieffer. 1926a:283, 287; Kozlov, 1978:616; Kozlov, Kononova, 1990:100, 131; Johnson, 1992:500; Petrov, 1991:83; Kononova, Petrov 2001:31; Petrov, Beyarslan, 2007:51.

Material. BULGARIA: SPW – Reselets h, 26.VII.1992, 1♂; SBM – Enina v, Mal. trap, 23-29.VII.2000, (Langurov), 1♀, 1♂; BSO – Rezovo v, 5.VIII.1991, 1♂; GREECE, GR-T – N. Xanthi district, Kalifea v, 21.VIII.1993, 2♂, (Petrov); GR-M- N. Dramas district, Doxa v, 12.VIII.1993, 1♂, (Petrov); N. Pierias district, Litohoro t, 1♂, 25.VIII.1993 (Petrov).

Vertical distribution: 20-600 m; XO.

Seasonal activity: VII, VIII.

Zoogeographical category/chorotype: ASE/DA – Asiatic-European species with disjunctive range.

Distribution in SE-Europe and Turkey: BG (SPW, SBM, BSO); GR (GR-T, GR-M).

General distribution in Palaearctic. Europe: Italy (Sicily), Avstriya, Bulgaria, Greece. Central Asia: Tajikistan.

***Sparasion radchenkoi* Kononova, 2003**

Sparasion radchenkoi Kononova, 2003:603. 604.

Female unknown.

Material. Type material: Holotype ♂ TURKEY, TR/Mdr – Taurus Mtn (Bolkar Dagı), Yeni Vidiz vill., 1300 m. 28.VI.2001 (A. Radchenko).

Vertical distribution: altitude and dominant plant type localities undetected.

Seasonal activity: VI.

Zoogeographical category/chorotype: ANAS – S-Anatolian(Taurian) endemic.

Distribution in SE-Europe and Turkey: TR (TR/Mdr).

General distribution in Palaearctic; Turkey.

***Sparasion tridens* Kononova et Petrov, 2001**

Sparasion tridens: Kononova, Petrov, 2001:25, 26; Petrov, Beyarslan, 2007:50; Kononova, Kozlov, 2008: 33, 52.

Female unknown.

Material. Type material: Holotype ♂ TURKEY, TR/Mr/Eu – Edirne range, (the location and date of collecting of the material are not specified), (A. Beyarslan). Paratype 1♂, TR/Eg? – Bozcaada Ayazma Köyü, 8.VII.1996 (O. Çetin).

Vertical distribution: altitude and dominant plant type localities undetected.

Seasonal activity: VII.

Zoogeographical category/chorotype: ANAW – W Anatolian endemic.

Distribution in SE-Europe and Turkey: TR (TR/Mr/Eu, TR/Eg?).

General distribution in Palaearctic; Turkey.

***Sparasion petrovi* Kononova, 2001**

Sparasion petrovi: Kononova, 2001:26, 28; Petrov, Beyarslan, 2007:50; Kononova, Kozlov, 2008:33, 54.

Female unknown.

Material. Type material: Holotype ♂, BULGARIA, BSO – Rezovo v, 5.VIII.1991 (Petrov).

Vertical distribution: 20 m; XO.

Seasonal activity: VIII.

Zoogeographical category/chorotype: BEB Balkan endemic from BG.

Distribution in SE-Europe and Turkey: BG (BSO).

General distribution in Palaearctic. Europe: Bulgaria.

***Sparasion arion* Kononova et Petrov, 2001**

Sparasion arion: Kononova, Petrov, 2001:33; Petrov, Beyarslan, 2007:51; Kononova, Kozlov, 2008:35, 61.

Female unknown.

Material. Type material: Holotype ♂ TURKEY, TR/Eg? Bozkaada–Merkez, 8. VIII.1996 (A. Beyarslan), Paratypes: 4♂ TR/Eg? - Gökceada Ugarta Köyü, 8.VII.1996, 1♂ (A. Beyarslan), Bozcaada Ayazma Köyü, 8.VII.1996, 1♂ (O. Çetin). BULGARIA: PBD –Fakiya v, 1.VIII.1991, 1♂, BSO – Veleka r, 30.VIII.1998, 1♂.

Vertical distribution: 20-110 m; XO.

Seasonal activity: VII, VIII.

Zoogeographical category/chorotype: BSE/BG,TR – Balkan subendemit for BG and TR.

Distribution in SE-Europe and Turkey: BG (PBD, BSO), TR (TR/Eg?).

General distribution in Palaearctic. Europe: Bulgaria. Turkey.

***Sparasion atomus* Kononova et Petrov, 2001**

Sparasion atomus: Kononova, Petrov, 2001:37; Petrov, Beyarslan, 2007:52; Kononova, Kozlov, 2008:49, 134.

Male unknown.

Material. Type material: Hungarian Natural History Museum in Budapest: Holotype ♀, BULGARIA, RPR – Rila Mtn, IX.1928 (Biró).

Vertical distribution: 1200 m; MB.

Seasonal activity: VII.

Zoogeographical category/chorotype: BEB Balkan endemic from BG.

Distribution in SE-Europe and Turkey: BG (RPR).

General distribution in Palaearctic. Europe: Bulgaria.

RESULTS

Check-list is presented including 24 species of parasitic wasps of the Scelionidae subfamily (Sparasionini) on the Balkan peninsula and Turkey.

For the species living in Bulgaria are specified vegetation zone and the above-sea level of the locations. For all registered species are specified the general distribution (in Europe and Palearctic region) and the zoogeographical category of the species in its chorotype.

Table 4

Chorotypes of species of the genus *Sparasion*

Chorotypes	Number
ASE/DA – Asiatic-European species with disjunctive range	7
SIE/DA – Sibero-European- species with disjunctive range	1
EUR – European species	3

BEB – Balkan endemic from BG.	7
BEG – Balkan endemic from GR.	1
BSE/BG,TR – Balkan subendemic for BG and TR	2
BSE/BG,GR – Balkan subendemic for BG and GR.	1
ANAS – S-Anatolian (Taurian)endemic	1
ANAW – W Anatolian endemic	1

Biogeographic distribution of species in the genus *Sparasion* by chorotypes (Table 4) shows that the most numerous Asiatic-European species with disjunctive range which are widely distributed in the Eurasian continent - south to the Himalayan chain (7 species). One species has a disjunctive Sibero-European areal. European species (3 species) are widely spread in Europe, with a strange ability to be distributed in Anatolia, the Caucasus, Maghreb and Macaronesia.

More than half the species are endemic and subendemic who in their distribution are limited to a biogeographical region. Balkan endemics are 7 species of Bulgaria and 1 species from Greece.

From Turkey 2 species are Anatolian endemics. Two species are subendemics for Bulgaria and Turkey, one species is a Balkan subendemic from Bulgaria and Greece.

Balkan endemic by BG are 7 species: *Sparasion rubrior* Petrov et Kononova, *S. rubescens* Kononova et Petrov, *S. rubridens* Kononova et Petrov, *S. obtusifrons* Kieffer, *S. recens* Kononova et Petrov, *S. castor* Kononova, *S. petrovi* Kononova. Balkan endemic by GR is *S. raptor* Kononova et Petrov. Balkan subendemic for the fauna of BG and TR is *S. argus* Kononova et Petrov. Balkan subendemic for the fauna of BG and GR is *S. unicolor* Kononova et Petrov.

Southern Anatolian endemic is *S. radchenkoi* Kononova. Western Anatolian endemic is *S. tridens* Kononova et Petrov.

CONCLUSIONS

1. The region of the Balkan Peninsula is reviewed within the borders determined in: „The Kingfiser World Atlas“ (Edition in Russian, 2006). Mainland Greece is subdivided into 4 geographical areas: Northern Greece (GR-N), Northwest Greece (GR-NW), Central Greece (GR-CG) and Peloponnese (GR-P). These geographical areas are divided into 8 administrative regions: Thrace, Macedonia, Epirus, Thessaly, Central Greece, Eubea, Atica, Peloponnese. They include 41 districts.
2. Turkey is reviewed within its geographical borders and is subdivided into 7 geographical districts: Marmara Region, Aegean Region, Black Sea Region, Central Anatolia Region, Mediterranean Region, South Eastern Region and East Anatolia Region).

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