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ADDITIONS AND CORRECTIONS TO THE CATALOGUE OF THE HETEROPTERA OF THE PALAEARCTIC REGION: TINGIDAE OF THE BALKAN PENINSULA

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Abstract The Catalogue of the Palearctic Heteroptera is supplemented with 32 overlooked records on the distribution of species of the family Tingidae. For 50 Tingid species the changes in political boundaries are considered.

KEY WORDS: Heteroptera, Tingidae, Balkan Peninsula, Serbia and Montenegro, Distribution

Izvleček DODATKI IN POPRAVKI KATALOGA STENIC PALEARKTIČNE REGIJE: TINGIDAE BALKANSKEGA POLOTOKA

Katalogu palearktičnih stenic je dodanih 32 prezrtih podatkov o razširjenosti vrst iz družine Tingidae. Za 50 vrst so upoštevane spremembe državnih meja.

KLJUČNE BESEDE: Heteroptera, Tingidae, Balkanski polotok, Srbija in Črna gora, razširjenost

Introduction

For the “3rd European Hemiptera Congress“ I prepared a presentation on Tingidae of the Balkan Peninsula. While I was working in this topic, I came upon records on the distribution of species from the family Tingidae in the Balkan Peninsula, which were not included in the Catalogue of the Heteroptera of the Palearctic Region (Aukema & Rieger 1996). Since the publication of the Catalogue there were changes in the region of former Yugoslavia, so wherever Yugoslavia was mentioned, I made the necessary changes.

Results

Species for which there are some additions and corrections regarding to the data published in the Catalogue of the Heteroptera of the Palaearctic Region (Aukema & Rieger 1996), are listed in Tab. 1.

Tab. 1: Overlooked records and corrections in distribution of the Tingidae species in former Yugoslavia.

	Species	Overlooked records	Correction: instead of YU
1.	<i>Acalypta carinata</i> (Panzer)	SL	
2.	<i>Acalypta gracilis</i> (Fieber)		SRB
3.	<i>Acalypta hellenica</i> Reuter	BH	
4.	<i>Acalypta marginata</i> (Wolff)	SL	SRB
5.	<i>Acalypta parvula</i> (Fallén)	BH, MC	MTG
6.	<i>Acalypta platycheila</i> (Fieber)	SL	SRB
7.	<i>Acalypta pulchra</i> Štusák	BH	
8.	<i>Agramma atricapillum</i> (Spinola)		MTG, SRB
9.	<i>Agramma confusum</i> Puton		SRB
10.	<i>Agramma minutum</i> Horváth		SRB
11.	<i>Agramma ruficorne</i> (Germar)		SL
12.	<i>Campylosteira bosnica</i> Horváth	SRB	
13.	<i>Campylosteira ciliata</i> (Fieber)	AL, BH, SRB	
14.	<i>Campylosteira orientalis</i> Horváth	MTG	
15.	<i>Campylosteira verna</i> (Fallén)	SL	MTG
16.	<i>Catoplatus anticus</i> Reuter	BH	
17.	<i>Catoplatus carthusianus</i> (Goeze)	CR	MTG, SRB
18.	<i>Catoplatus crassipes</i> (Fieber)		SRB
19.	<i>Catoplatus fabricii</i> (Stål)	CR, SRB	
20.	<i>Catoplatus horvathi</i> (Puton)		SRB
21.	<i>Catoplatus nigriceps</i> Horváth	MC	SRB
22.	<i>Copium clavicorne</i> (Linnaeus)	CR	MTG, SRB
23.	<i>Copium teucarii teucarii</i> (Host)	BH	MTG, SRB
24.	<i>Corythuca ciliata</i> Say		MTG, SRB
25.	<i>Derephysia foliacea</i> Fallén	BH	MTG, SRB
26.	<i>Dictyla convergens</i> (Herrich-Schaeffer)		–
27.	<i>Dictyla echii</i> (Schrank)		MTG, SRB
28.	<i>Dictyla humuli</i> (Fabricius)		SRB
29.	<i>Dictyla lupuli</i> (Herrich-Schaeffer)		SRB
30.	<i>Dictyla nassata</i> (Puton)	BH, MTG	
31.	<i>Dictyla platyoma</i> (Fieber)		SRB
32.	<i>Dictyla rotundata</i> (Herrich-Schaeffer)	AL	SRB

33.	<i>Dictyonota strichnocera</i> Fieber		SRB
34.	<i>Elasmotropis testaceus</i> (Herrich-Schaeffer)		SRB
35.	<i>Galeatus affinis</i> (Herrich-Schaeffer)		SRB
36.	<i>Hyalochiton komaroffi</i> (Jakovlev)	CR	
37.	<i>Hyalochiton syrmienensis</i> (Horváth)		SRB
38.	<i>Kalama aethiops</i> (Horvath)		MTG
39.	<i>Kalama henschi</i> (Puton)	SL	
40.	<i>Kalama lugubris</i> (Fieber)	CR, MC	SRB
41.	<i>Kalama tricornis</i> (Schrank)		MTG, SRB
42.	<i>Lasiacantha capucina piligera</i> (Garbiglietti)		MTG, SRB
43.	<i>Lasiacantha gracilis</i> (Herrich-Schaeffer)	CR	SRB
44.	<i>Lasiacantha hermani</i> Vasarhelyi		SRB
45.	<i>Monosteira unicastata</i> (Mulsant & Rey)	BH	SRB
46.	<i>Oncochila scapularis</i> (Fieber)		SRB
47.	<i>Oncochila simplex</i> (Herrich-Schaeffer)	BH	SRB
48.	<i>Physatocheila confinis</i> Horvath		SRB
49.	<i>Physatocheila costata</i> (Fabricius)	BH, CR, MC	
50.	<i>Physatocheila dumetorum</i> (Herrich-Schaeffer)	AL	MTG, SRB
51.	<i>Stephanitis oberti</i> (Kolenati)	?	?
52.	<i>Stephanitis pyri</i> (Fabricius)		SRB
53.	<i>Tingis (Neolasiotropis) marrubi</i> Vallot		MTG
54.	<i>Tingis (Neolasiotropis) pauperata</i> (Puton)	?	?
55.	<i>Tingis (Neolasiotropis) pilosa</i> Hummel		SRB
56.	<i>Tingis (Tropidocheila) maculata</i> (Herrich-Schaeffer)	CR, SL	SRB
57.	<i>Tingis (Tropidocheila) ragusana</i> (Fieber)	BH, SL	SRB
58.	<i>Tingis (Tropidocheila) reticulata</i> (Herrich-Schaeffer)		MTG, SRB
59.	<i>Tingis (Tropidocheila) trichonota</i> (Puton)	CR	
60.	<i>Tingis (Tingis) ampliata</i> (Herrich-Schaeffer)		SRB
61.	<i>Tingis (Tingis) angustata</i> (Herrich-Schaeffer)		SRB
62.	<i>Tingis (Tingis) auriculata</i> (Costa)	BH	MTG, SRB
63.	<i>Tingis (Tingis) cardui</i> (Linnaeus)		MTG, SRB
64.	<i>Tingis (Tingis) crispata</i> (Herrich-Schaeffer)	CR	SRB
65.	<i>Tingis (Tingis) elongata</i> (Fieber)		SRB
66.	<i>Tingis (Tingis) grisea</i> Germar		SRB
	Total number	32	50

Remarks on the species

Within further text, the Catalogue of the Heteroptera of the Palaearctic Region (Aukema & Rieger 1996) is mentioned abbreviated as Catalogue, Yugoslavia as YU.

1. *Acalypta carinata* (Panzer, 1806)

At the territory of former YU it was recorded only in Slovenia (Gogala & Moder 1960); that was not mentioned in the Catalogue.

2. *Acalypta gracilis* (Fieber, 1844)

Instead of YU, it should read Serbia (Horváth 1897).

3. *Acalypta hellenica* Reuter, 1888

Bosnia-Herzegovina should be added. Péricart (1983) assigned localities from Bosnia-Herzegovina, Metković: Dračevo and Domanovići, for Croatia by mistake.

4. *Acalypta marginata* (Wolff, 1804)

Records for Slovenia (Gogala & Moder 1960) were overlooked. Instead of YU, it should read Serbia (Protić 1998).

5. *Acalypta parvula* (Fallén, 1807)

Records for Bosnia-Herzegovina and Macedonia were overlooked (Kormilev 1936, Protić 1990). Instead of YU, it should read Montenegro (Protić 1998).

6. *Acalypta platycheila* (Fieber, 1844)

Records for Slovenia were overlooked (Protić 1990). Instead of YU, it should read Serbia, the locality Ruma (Péricart 1983).

7. *Acalypta pulchra* Štusák, 1961

Records were overlooked for Bosnia-Herzegovina, the locality Stolac (Péricart 1983).

8. *Agramma atricapillum* (Spinola, 1837)

Instead of YU, it should read Serbia and Montenegro (Protić 1998).

9. *Agramma confusum* Puton, 1879

Instead of YU, it should read Serbia (Protić 2004a). The collection by Nikola Kormilev (Protić 1998) includes specimens from the territory of Serbia, Macedonia, Bosnia-Herzegovina and Slovenia, which were identified as *Agramma laetum* (Fallén). Revision of these specimens proved that they belong actually to the species *A. confusum* (Puton).

10. *Agramma minutum* Horváth, 1874

Instead of YU, it should read Serbia (Protić 1998).

11. *Agramma ruficorne* (Germar, 1835)

Slovenia should be added (Gogala & Moder 1960; Gogala & Gogala 1986, 1989)

12. *Campylosteira bosnica* Horváth, 1892

Serbia should be added. Locality Uvac was assigned to Bosnia-Herzegovina (Protić

1998) by mistake. Collector was Dr Andreas Hensch, entomologist who was on duty in Serbia (Uvac, Ruma).

13. *Campylosteira ciliata* (Fieber, 1844)

Records for Albania, Bosnia-Herzegovina and Serbia were overlooked (Protić 2004a).

14. *Campylosteira orientalis* Horváth, 1881

Records for Montenegro were overlooked (Horváth 1906).

15. *Campylosteira verna* (Fallén, 1826)

Records for Slovenia were overlooked (Gogala & Moder 1960, Protić 1998). Instead of YU, it should read Montenegro (Protić 1998).

16. *Catoplatus anticus* (Reuter, 1880)

Records for Bosnia-Herzegovina were overlooked (Protić 2004a).

17. *Catoplatus carthusianus* (Goeze, 1778)

Records are known for Croatia (Horváth 1891, Novak & Wagner 1951) and Macedonia (Kormilev 1936). Instead of YU, it should read Serbia and Montenegro (Protić 1998).

18. *Catoplatus crassipes* (Fieber, 1861)

Instead of YU, it should read Serbia (Protić 1998). *Locus typicus* of this species is in Serbia (Fieber 1861).

19. *Catoplatus fabricii* (Stål, 1868)

Records for Croatia were overlooked (Horváth 1906). New data for Serbia (Protić 2003).

20. *Catoplatus horvathi* (Puton, 1878)

Instead of YU, it should read Serbia (Protić 1998).

21. *Catoplatus nigriceps* Horváth, 1905

Macedonia should be added (Protić 1998). Instead of YU, it should read Serbia (Protić 1998).

22. *Copium clavicorne* (Linnaeus, 1758)

Croatia should be added (Protić 1998). Instead of YU, it should read Serbia and Montenegro (Protić 1998).

23. *Copium teucarii teucarii* (Host, 1788)

Bosnia-Herzegovina should be added (Protić 1998, 2004a). Instead of YU, it should read Serbia and Montenegro (Protić 1998, 2003).

24. *Corythuca ciliata* Say, 1832

Instead of YU, it should read Serbia and Montenegro (Protić 1998).

25. *Derephysia foliacea* (Fallén, 1807)

Instead of YU, it should read Serbia and Montenegro (Protić 1998).

26. *Dictyla convergens* (Herrich-Schaeffer, 1835)

YU should be omitted. Croatia is included, and that was the only state of former Yugoslavia where this species was recorded (Horváth 1897).

27. *Dictyla echii* (Schrank, 1782)

Instead of YU, it should read Serbia and Montenegro (Protić 1998).

28. *Dictyla humuli* (Fabricius, 1794)

Instead of YU, it should read Serbia (Protić 1998).

29. *Dictyla lupuli* (Herrich-Schaeffer, 1837)

Instead of YU, it should read Serbia (Protić 1998).

30. *Dictyla nassata* (Puton, 1874)

Bosnia-Herzegovina and Montenegro should be added (Protić 1998, 2004a).

31. *Dictyla platyoma* (Fieber, 1861)

Instead of YU, it should read Serbia (Protić 1998).

32. *Dictyla rotundata* (Herrich-Schaeffer, 1835)

Albania should be added (Protić 2004a). Instead of YU, it should read Serbia (Protić 1998).

33. *Dictyonota strichnocera* Fieber, 1844

Instead of YU, it should read Serbia and Montenegro (Protić 1998).

34. *Elasmotropis testaceus* (Herrich-Schaeffer, 1830)

Instead of YU, it should read Serbia (Protić 1998).

35. *Galeatus affinis* (Herrich-Schaeffer, 1835)

Instead of YU, it should read Serbia (Protić 1998).

36. *Hyalochiton komaroffi* (Jakovlev, 1880)

Croatia should be added to the Catalogue. Instead of YU, it should read Croatia, as the only sites in former YU where this species was recorded are Grljevac and Povlja in Croatia, cited by Péricart (1983).

37. *Hyalochiton syrmiensis* (Horváth, 1897)

Instead of YU, it should read Serbia (Horváth 1897).

38. *Kalama aethiops* (Horvath, 1905)

Instead of YU, it should read Montenegro (Protić 1998).

39. *Kalama henschi* (Puton, 1892)

Slovenia should be added to the Catalogue (Gogala & Moder 1960)

40. *Kalama lugubris* (Fieber, 1861)

Croatia and Macedonia new data for the Catalogue (Protić 1998). Instead of YU, it should read Serbia. *Locus typicus* of this species is in Serbia (Fieber 1861).

41. *Kalama tricornis* (Schrank, 1801)

Instead of YU, it should read Serbia and Montenegro (Protić 1998).

42. *Lasiacantha capucina piligera* (Garbiglietti, 1869)

Instead of YU, it should read Serbia and Montenegro (Protić 1998).

43. *Lasiacantha gracilis* (Herrich-Schaeffer, 1830)

Croatia should be added (Horváth 1907). Instead of YU, it should read Serbia (Protić 1998).

44. *Lasiacantha hermani* Vasarhelyi, 1977

Instead of YU, it should read Serbia: Deliblato 07.1898, *paratype* (Vásárhelyi 1977).

45. *Monosteira unicastata* (Mulsant & Rey, 1852)

Bosnia-Herzegovina should be added (Protić 2004a). Instead of YU, it should read Serbia (Protić 1998).

46. *Oncochila scapularis* (Fieber, 1844)

Instead of YU, it should read Serbia (Protić 1998).

47. *Oncochila simplex* (Herrich-Schaeffer, 1830)

Bosnia-Herzegovina should be added (Protić 1998, 2004a). Instead of YU, it should read Serbia (Protić 1998).

48. *Physatocheila confinis* Horvath, 1905

Instead of YU, it should read Serbia (Protić 1998).

49. *Physatocheila costata* (Fabricius, 1794)

YU should be omitted. Croatia and Macedonia should be added (Protić 1998).

50. *Physatocheila dumetorum* (Herrich-Schaeffer, 1838)

Albania should be added (Protić 2004a). Instead of YU, it should read Serbia (Csiki 1940) and Montenegro (Schumacher 1914).

51. *Stephanitis oberti* (Kolenati, 1857)

The Catalogue mentions YU but I have no data on records of this species in the region of former Yugoslavia. Péricart (1983) doubts the citations by Stichel (1958-1962).

52. *Stephanitis pyri* (Fabricius, 1775)

Instead of YU, it should read Serbia (Protić 1998).

53. *Tingis (Neolasiotropis) marrubi* Vallot, 1829

Instead of YU, it should read Montenegro: Morakovo-Bjeloševina [CN43] (Péricart 1983).

54. *Tingis (Neolasiotropis) pauperata* (Puton, 1879)

The Catalogue mentions YU but I have no data on records of this species in the region of former Yugoslavia. The data were probably transcribed from Stichel (1958-1962).

55. *Tingis (Neolasiotropis) pilosa* Hummel, 1825

Instead of YU, it should read Serbia (Protić 1998).

56. *Tingis (Tropidocheila) maculata* (Herrich-Schaeffer, 1838)

Instead of YU, it should read Croatia (Horváth 1891), Serbia (Horváth 1897), Slovenia (Gogala & Moder 1960).

57. *Tingis (Tropidocheila) ragusana* (Fieber, 1861)

Bosnia-Herzegovina should be added (Protić 1998, 2004a). Instead of YU, it should read Serbia (Protić 1998).

58. *Tingis (Tropidocheila) reticulata* (Herrich-Schaeffer, 1835)

Instead of YU, it should read Serbia and Montenegro (Protić 1998).

59. *Tingis (Tropidocheila) trichonota* (Puton, 1874)

Croatia should be added (Péricart 1983). The Catalogue mentions Slovenia. If this record is from Péricart (1983), then it is actually for Croatia where the published locality (Rijeka) is situated.

60. *Tingis (Tingis) ampliata* (Herrich-Schaeffer, 1838)

Instead of YU, it should read Serbia (Protić 1998).

61. *Tingis (Tingis) angustata* (Herrich-Schaeffer, 1838)

Instead of YU, it should read Serbia (Fieber 1861).

62. *Tingis (Tingis) auriculata* (Costa, 1847)

Bosnia-Herzegovina should be added. Instead of YU, it should read Serbia and Montenegro (Protić 1998).

63 *Tingis (Tingis) cardui* (Linnaeus, 1758)

Instead of YU, it should read Serbia and Montenegro (Protić 1998, 2004a).

64. *Tingis (Tingis) crispata* (Herrich-Schaeffer, 1838)

Croatia should be added (Horváth 1897). Instead of YU, it should read Serbia (Protić 1998).

65. *Tingis (Tingis) elongata* (Fieber, 1861)

Instead of YU, it should read Serbia (Protić 1998). *Locus typicus* of this species is in Serbia (Fieber 1861).

66. *Tingis (Tingis) grisea* Germar, 1835

Instead of YU, it should read Serbia (Protić 1998).

Conclusions

For the region of former Yugoslavia 76 species of the Tingidae family were recorded. This paper presents corrections and additions to the distribution of 66 species recorded in the territory of former Yugoslavia.

The Catalogue is supplemented with 32 overlooked records on the distribution of species of the family Tingidae. For 50 species changes in distribution are noted that result from changes in political boundaries since 1990.

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