

## Neuroptera of Kosovo and Metohija (Serbia)

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### Abstract

On the basis of field investigations during the last quarter of 20th century a survey of the Neuroptera of Kosovo and Metohija (Serbia) is given. A total of 51 species is listed and data concerning their ecology and distribution are presented.

Key words: Insecta, Neuroptera, Kosovo, Metohija, Balkan Peninsula

### Zusammenfassung

Aufsammlungen im letzten Viertel des 20. Jahrhunderts auf der Basis von Feldarbeit geben einen Überblick über die Neuropteren von Kosovo und Metohija (Serbien). 51 Arten werden aufgelistet und die Daten ihrer Ökologie und Verbreitung aufgezeigt.

The data on the Neuroptera in Kosovo and Metohija (former Kosovo) are fragmentary and scattered in individual papers. The oldest records of lacewings in the region originate from PONGRÁCZ's publication on Neuropterida of former Albania (1923), where 12 neuropteran and 3 raphidiopteran species are listed for an area which is nowadays a part of Kosovo and Metohija. Occurrence of two listed species seems to be problematic. Finding of *Megalomus hirtus* (LINNAEUS, 1761) needs confirmation. Another species, *Macronemurus appendiculatus* (LATREILLE, 1807) should be replaced with *Macronemurus bilineatus* BRAUER, 1868, as one can conclude from PONGRÁCZ's illustration on page 157. Later, only a few papers mentioning Neuroptera from the area were published (DEVETAK, 1992, 1997a, 1997b; JAKŠIĆ & BELJ, 1995). In the present study, a survey of Neuroptera collected in the region in the last quarter of 20<sup>th</sup> century is given.

### Material and methods

Over 1.100 fluid-preserved and dried specimens have been collected by D. Devetak (DD) and P. Jakšić (PJ). Data on plant substrate species are provided. The material is deposited in D. Devetak's collection. Data on the distribution of the listed species in the Western Palearctic were taken from ASPÖCK et al. (2001). Collecting sites are shown in Fig. 1.

## NEVRORTHIFORMIA

### NEVRORTHIDAE

*Nevrorthus apatelius* H. ASPÖCK & U. ASPÖCK & H. HÖLZEL, 1977

Literature record: PONGRÁCZ (1923): Peć.

Mt. Šar-planina, Prizrenska Bistrica 22. VII. 1986 (PJ).

Geographical distribution: Balkanopontomediterranean element.

## HEMEROBIIFORMIA

### OSMYLIDAE

#### *Osmylus fulvicephalus* (SCOPOLI, 1763)

Literature record: PONGRÁCZ (1923): Peć.

Devet Jugovica, Lebane 9. VI. 1979 (DD); Ibarska klisura: Košutovac, Košutovacki potok 10. VI. 1987 (PJ); Mt. Šar-planina: Brezovica, Piljevacki potok 17. VII. 1986 (PJ).

Geographical distribution: expansive Holomediterranean element.

### CHRYSOPIDAE

#### *Italochrysa italica* (ROSSI, 1790)

Mt. Šar-planina, Prizrenska Bistrica 22. VII. 1986 (PJ).

Geographical distribution: Holomediterranean element.

#### *Nineta flava* (SCOPOLI, 1763)

Devet Jugovica, Lebane 9. VI. 1979 (DD); Gračanica 19. V. 1979, 26. VII. 1979 (DD); Mt. Grmija 1. VII. 1979 (DD); Priština, from VI. to IX. 1979 (DD).

Plant substrate species: *Acer negundo*, *Pinus nigra*, *Quercus* sp., *Robinia pseudacacia*.

Geographical distribution: Extramediterranean-European element.

#### *Chrysotropia ciliata* (WESMAEL, 1841)

Literature record: PONGRÁCZ (1923): »*Chrysopa alba* L.« was mentioned from Peć (»Ipek«).

Geographical distribution: Siberian element, widespread in Europe.

#### *Chrysopa perla* (LINNAEUS, 1758)

Literature records: PONGRÁCZ (1923): Dečani, Kosovska Mitrovica, Peć.

Devet Jugovica, Lebane 9. VI. 1979 (DD); Ibarska klisura: Košutovac, Košutovacki potok 13.-14. VIII. 1985, 24. VII. 1987, 28. VII. 1988 (PJ); Mt. Grmija 13. V. 1980, 20. V. 1984 (PJ); Mt. Goleš 5. VI. 1979 (DD); Mt. Šar-planina, Brezovica 22. VII. 1979, 17. VII. 1986 (PJ); Mt. Šar-planina, Racane, Prizrenska Bistrica 10. VIII. 1986, 5.-7. VIII. 1987 (PJ); Priština 20. V. 1979, 22. V. 1979, 14. VII. 1979 (DD).

Plant substrate species: *Pinus nigra*, *Populus* sp.

Geographical distribution: Siberian element, widespread in Europe.

#### *Chrysopa dorsalis* BURMEISTER, 1839

Priština, from VI. to IX. 1979 (DD).

Plant substrate species: *Pinus nigra*.

Geographical distribution: Expansive Pontomediterranean element.

#### *Chrysopa abbreviata* CURTIS, 1834

Ibarska klisura: Košutovac, Košutovacki potok 24. VII. 1987 (PJ);

Geographical distribution: Siberian element, widespread in Europe.

#### *Chrysopa commata* KIS & ÚJHELYI, 1965

Ibarska klisura: Košutovac, Košutovacki potok 13.-14. VIII. 1985, 24. VII. 1987 (PJ).

Geographical distribution: Siberian element.

***Chrysopa formosa* BRAUER, 1850**

Literature record: PONGRÁCZ (1923): Kosovska Mitrovica.

Ibarska klisura: Košutovac, Košutovacki potok 13.-14. VIII. 1985 (PJ); Priština, from V. to IX. 1979 (DD).

Plant substrate species: *Acer platanoides*, *Larix decidua*, *Pinus nigra*, *Robinia pseudacacia*.

Geographical distribution: polycentric Siberian and Holomediterranean element, widespread in Europe.

***Chrysopa phyllochroma* WESMAEL, 1841**

Ibarska klisura: Košutovac, Košutovacki potok 13.-14. VIII. 1985 (PJ).

Geographical distribution: Siberian element, widespread in Europe.

***Chrysopa viridana* SCHNEIDER, 1845**

Mt. Goleš 19. VII. 1979 (DD); Priština 6., 15., 25. VII. 1979, 13. VIII. 1979 (DD).

Plant substrate species: *Acer platanoides*, *Robinia pseudacacia*.

Geographical distribution: expansive Holomediterranean element.

***Chrysopa pallens* RAMBUR, 1838**

Ibarska klisura: Košutovac, Košutovacki potok 24. VII. 1987 (PJ); Mt. Grmija 21. VII. 1979 (DD); Mt. Goleš 5. VI. 1979 (DD); Mt. Šar-planina, Prizrenska Bistrica 22. VII. 1986 (PJ); Priština, from V. to IX. 1979 (DD); Prizren 22. VII. 1986 (PJ); Slatina 25. VII. 1979 (DD).

Plant substrate species: *Acer negundo*, *Acer platanoides*, *Acer pseudoplatanus*, *Pinus nigra*, *Robinia pseudacacia*.

Geographical distribution: expansive Palearctic element.

***Dichochrysa flavifrons* (BRAUER, 1850)**

Ibarska klisura: Košutovac, Košutovacki potok 24. VII. 1987 (PJ); Mt. Grmija 1., 22. VII. 1979 (DD); Priština 13. VIII. 1979, 29. IX. 1979 (DD); Prizren 22. VII. 1986 (PJ).

Plant substrate species: *Acer platanoides*, *Acer pseudoplatanus*, *Robinia pseudacacia*.

Geographical distribution: expansive Holomediterranean element.

***Dichochrysa prasina* (BURMEISTER, 1839)**

Devet Jugovica, Lebane 9. VI. 1979 (DD); Gračanica 19. V. 1979 (DD); Mt. Goleš 5, 25. VI. 1979, 19. VII. 1979 (DD); Mt. Grmija, from V. to IX. 1979 (DD); Priština, from IV. to X. 1979 (DD); Prizren 22. VII. 1986 (PJ); Slatina 25. VII. 1979 (DD).

Plant substrate species: *Acer platanoides*, *Pinus nigra*, *Quercus* sp., *Robinia pseudacacia*.

Geographical distribution: polycentric Siberian and Mediterranean element.

***Dichochrysa abdominalis* (BRAUER, 1856)**

Ibarska klisura: Košutovac, Košutovacki potok 24. VII. 1987, 28. VII. 1988 (PJ); Gračanica 26. VII. 1979 (DD); Mt. Goleš 25. VI. 1979, 19. VII. 1979 (DD); Mt. Grmija 16. VII. 1979 (DD); Priština, from V. to IX. 1979 (DD); Slatina 25. VII. 1979 (DD).

Plant substrate species: *Acer platanoides*, *Pinus nigra*, *Prunus domestica*, *Quercus* sp., *Robinia pseudacacia*.

Geographical distribution: insufficiently investigated due to the fact that this species has been recently re-evaluated (HÖLZEL, 1998).

***Cunctochrysa albolineata* (KILLINGTON, 1935)**

Ibarska klisura: Košutovac, Košutovacki potok 24. VII. 1987 (PJ); Priština 17., 20. V. 1979, 13. VIII. 1979 (DD); Mt. Šar-planina: Brezovica 22. VII. 1979 (PJ).

Plant substrate species: *Acer platanoides*, *Pinus nigra*.

Geographical distribution: polycentric Siberian element.

***Chrysoperla lucasina* (LACROIX, 1912)**

Ibarska klisura: Košutovac, Košutovacki potok 22. VI. 1986 (PJ); Mt. Goleš 5., 25. VI. 1979, 19. VII. 1979 (DD); Mt. Grmija 1., 21. VII. 1979 (DD), 13. V. 1980 (PJ), 23. IX. 1984 (PJ), 31. X. 1984 (PJ); Mt. Šar-planina, Brezovica 17. VII. 1986, 5. VI. 1987 (PJ); Novo Brdo, Bostane 24. XI. 1981 (PJ); Priština, from V. to XII. 1979 (DD); Priština: Vragolija 26. IV. 1979 (DD); Prizren 22. VII. 1986 (PJ); Slatina 25. VII. 1979 (DD).

Plant substrate species: *Acer negundo*, *Acer platanoides*, *Acer pseudoplatanus*, *Pinus nigra*, *Quercus* sp., *Robinia pseudacacia*.

Geographical distribution: Holomediterranean element.

HEMEROBIIDAE

***Hemerobius (H.) humulinus* LINNAEUS, 1758**

Devet Jugovica, Lebane 9. VI. 1979 (DD); Mt. Goleš 25. VI. 1979, 19. VII. 1979 (DD); Mt. Grmija 1. VII. 1979 (DD); Priština, from V. to X. 1979 (DD).

Plant substrate species: *Acer platanoides*, *Pinus nigra*, *Quercus* sp., *Robinia pseudacacia*.

Geographical distribution: Holarctic element.

***Hemerobius (H.) simulans* WALKER, 1853**

Priština 23. IX. 1979 (DD).

Geographical distribution: Holarctic element.

***Hemerobius (H.) stigma* STEPHENS, 1836**

Priština 27.-30. IV. 1979, 26. VI. 1979, 6. VII. 1979 (DD).

Plant substrate species: *Acer platanoides*, *Pinus nigra*.

Geographical distribution: Holarctic element.

***Hemerobius (H.) handschini* TJEDER, 1957**

Priština, from IV. to IX. 1979 (DD).

Plant substrate species: *Acer platanoides*, *Pinus nigra*.

Geographical distribution: expansive Holomediterranean element.

***Hemerobius (H.) micans* OLIVIER, 1792**

Literature record: PONGRÁCZ (1923): Peć.

Devet Jugovica, Lebane 9. VI. 1979 (DD); Gračanica 26. VII. 1979 (DD); Mt. Goleš 19. VII. 1979 (DD); Mt. Grmija 1., 16. and 21. VII. 1979 (DD); Orahovac 15. IV. 1979 (DD); Priština, from V. to X. 1979 (DD).

Plant substrate species: *Acer platanoides*, *Pinus nigra*, *Populus* sp., *Quercus* sp., *Ribes* sp., *Robinia pseudacacia*.

Geographical distribution: Siberian element, widespread in Europe.

***Hemerobius (H.) lutescens* FABRICIUS, 1793**

Devet Jugovica, Lebane 9. VI. 1979 (DD); Mt. Grmija 16. VII. 1979 (DD); Priština, from IV. to IX. 1979 (DD).

Plant substrate species: *Acer platanoides*, *Pinus nigra*.

Geographical distribution: Siberian element, widespread in Europe.

***Hemerobius (H.) gilvus* STEIN, 1863**

Gračanica 5. V. 1979 (DD); Priština 2. and 3. VI. 1979, 22. VII. 1979.

Plant substrate species: *Acer pseudoplatanus*, *Pinus nigra*, *Quercus* sp.

Geographical distribution: expansive Holomediterranean element.

***Hemerobius (Brauerobius) marginatus* STEPHENS, 1836**

Mt. Goleš 19. VII. 1979 (DD); Mt. Grmija 1. VII. 1979 (DD); Priština 7. VI. 1979 (DD).

Plant substrate species: *Quercus* sp., *Robinia pseudacacia*.

Geographical distribution: Siberian element, widespread in Europe.

***Wesmaelius (Kimmisia) subnebulosus* (STEPHENS, 1836)**

Devet Jugovica, Lebane 9. VI. 1979 (DD); Mt. Goleš 25. VI. 1979, 19. VII. 1979 (DD); Mt. Grmija 16. VII. 1979 (DD); Priština, from IV. to X. 1979 (DD).

Plant substrate species: *Acer platanoides*, *Pinus nigra*, *Quercus* sp., *Ribes* sp., *Robinia pseudacacia*.

Geographical distribution: ? Holarctic element.

***Sympherobius (S.) pygmaeus* (RAMBUR, 1842)**

Priština 2. and 16. VI. 1979, 22. VII. 1979, 4. VIII. 1979 (DD).

Plant substrate species: *Pinus nigra*.

Geographical distribution: expansive Holomediterranean element.

***Megalomus tortricoides* RAMBUR, 1842**

Devet Jugovica, Lebane 9. VI. 1979 (DD); Ibarska klisura: Košutovac, Košutovacki potok 24. VII. 1987 (PJ); Mt. Grmija 22. VII. 1979 (DD).

Geographical distribution: expansive Holomediterranean element.

***Drepanopteryx phalaenoides* (LINNAEUS, 1758)**

Mt. Grmija 4. VIII. 1978 (PJ).

Geographical distribution: Siberian element, widespread in Europe.

***Micromus (M.) variegatus* (FABRICIUS, 1793)**

Ibarska klisura: Košutovac, Košutovacki potok 13. VIII. 1985 (PJ).

Geographical distribution: Holarctic.

***Micromus (Nesomicromus) angulatus* (STEPHENS, 1836)**

Mt. Šar-planina, Prizrenska Bistrica 22. VII. 1986 (PJ).

Geographical distribution: Holarctic element.

***Micromus (N.) paganus* (LINNAEUS, 1767)**

Mt. Šar-planina: Brezovica, Stojkova kuca 1750 m, 19. VII. 1986 (PJ).

Geographical distribution: Siberian element, in Europe widespread.

**CONIOPTERYGIDAE**

***Aleuropteryx loewii* KLAPÁLEK, 1894**

Priština, from VI. to IX. 1979 (DD).

Plant substrate species: *Acer pseudoplatanus*, *Pinus nigra*.

Geographical distribution: expansive Holomediterranean element.

***Helicoconis (Ohmopteryx) pseudolutea* OHM, 1965**

Mt. Goleš, 19. 7. 1979 (DD); Mt. Grmija, 1. VII., 16. VII., 22. VII. 1979 (DD).

Plant substrate species: *Pinus nigra*, *Quercus* sp.

Geographical distribution: Holomediterranean element.

***Coniopteryx (C.) borealis* TJEDER, 1930**

Priština 8. VII. 1979 (DD), 1. VIII. 1979 (DD).

Plant substrate species: *Pinus nigra*.

Geographical distribution: ? Mediterranean-Extramediterranean element.

***Coniopteryx (C.) pygmaea* ENDERLEIN, 1906**

Priština, from IV. to X. 1979 (DD).

Plant substrate species: *Pinus nigra*.

Geographical distribution: polycentric Siberian-Mediterranean element.

***Coniopteryx (Holoconiopteryx) haematica* MCLACHLAN, 1868**

Mt. Goleš, 19. VII. 1979 (DD).

Plant substrate species: *Quercus* sp.

Geographical distribution: Holomediterranean element.

***Coniopteryx (Metaconiopteryx) esbenpeterseni* TJEDER, 1930**

Mt. Grmija 9. IX. 1979 (DD); Priština 22. V. 1979 (DD).

Plant substrate species: *Pinus nigra*.

Geographical distribution: expansive Holomediterranean element.

***Conwentzia pineticola* ENDERLEIN, 1905**

Literature record: PONGRÁCZ (1923): Peć.

Priština, from V. to VIII. 1979 (DD).

Plant substrate species: *Acer platanoides*, *Pinus nigra*.

Geographical distribution: Europe, Asia, North Africa, North America.

***Semidalis aleyrodiformis* (STEPHENS, 1836)**

Devet Jugovica, Lebane 9. VI. 1979 (DD); Mt. Goleš 19. VII. 1979 (DD); Mt. Grmija 16. VII. 1979 (DD); Priština, from V. to IX. 1979 (DD).

Plant substrate species: *Acer negundo*, *Acer platanoides*, *Pinus nigra*, *Quercus* sp., *Robinia pseudacacia*.  
Geographical distribution: Europe, Asia, North Africa.

## MANTISPIDAE

### *Mantispa styriaca* (PODA, 1761)

Mt. Goleš 25. VI. 1979 (DD); Priština 15. VII. 1979 (DD).

Plant substrate species: *Pinus nigra*, *Quercus* sp.

Geographical distribution: Europe, Asia.

### *Mantispa aphavexelte* U. ASPÖCK & H. ASPÖCK, 1994

Ibarska klisura: Košutovac, Košutovacki potok 13.-14. VIII. 1985, 24. VII. 1987 (PJ).

Geographical distribution: Europe, Asia, North Africa.

## MYRMELEONTIFORMIA

### MYRMELEONTIDAE

#### *Myrmeleon (M.) formicarius* LINNAEUS, 1767

Mt. Grmija 21., 22. VII. 1979 (larvae) (DD); Mt. Šar-planina: Brezovica 22. VII. 1979 (larvae) (PJ).

Geographical distribution: Siberian element, widespread in Europe.

#### *Myrmeleon inconspicuus* RAMBUR, 1842

Ibarska klisura: Košutovac, Košutovacki potok 24. VII. 1987 (PJ).

Geographical distribution: Holomediterranean element.

#### *Euroleon nostras* (GEOFFROY in FOURCROY, 1785)

Mt. Grmija 26. IX. 1979 (larvae) (DD); Mt. Šar-planina: Brezovica 22. VII. 1979 (larvae) (PJ).

Geographical distribution: polycentric Mediterranean-Extramediterranean element?

#### *Macronemurus bilineatus* BRAUER, 1868

Literature records: PONGRÁČ (1923): Morina (erroneously identified as *Macronemurus appendiculatus* /LATR./); DEVETAK (1997a): Kosovo polje: Caravica, Ibarska klisura: Košutovac.

Ibarska klisura: Košutovac, Košutovacki potok 12.-13. VIII. 1985, 24. VII. 1987, 28. VII. 1988 (PJ); Kosovo polje, Caravica 24. VII. 1979 (DD).

Geographical distribution: Pontomediterranean element.

#### *Distoleon tetragrammicus* (FABRICIUS, 1798)

Ibarska klisura: Košutovac, Košutovacki potok 28. VII. 1988 (PJ); Mt. Šar-planina, Prizrenska Bistrica 22. VII. 1986 (PJ).

Geographical distribution: expansive Holomediterranean element.

#### *Nicarinus poecilopterus* (STEIN, 1863)

Ibarska klisura: Košutovac, Košutovacki potok 24. VII. 1987 (PJ).

Geographical distribution: Pontomediterranean element.

## ASCALAPHIDAE

### *Libelloides lacteus* (BRULLÉ, 1832)

Literature record: DEVETAK (1997b): Košutovacki potok.

Ibarska klisura: Košutovac, Košutovacki potok 28. V. 1985, 22. VI. 1986 (PJ).

### *Libelloides macaronius* (SCOPOLI, 1763)

Literature records: PONGRÁCZ (1923): Peć.

Ibarska klisura: Košutovac, Košutovacki potok 22. VI. 1986, 17. VI. 1988 (PJ); Mt. Grmija 1. VII. 1984 (PJ).

Geographical distribution: expansive polycentric Pontomediterranean element.



Fig. 1. Collecting sites in Kosovo and Metohija (Serbia).



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