

Checklist of Lacewings (Neuropterida: Raphidioptera, Megaloptera, Neuroptera) of Albania*

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Abstract: A current checklist of the Neuropterida (Raphidioptera, Megaloptera, Neuroptera) of Albania is provided. The list is based on published data and results of recent field collecting trips. A total of 48 genera and 89 species belonging to 13 families were recorded for the country, with 27 neuropterid species being reported for the first time for Albania. The species distribution was documented for almost the entire territory of Albania (11 of all 12 counties). We present the first record of a female of the snakefly species, *Phaeostigma thaleri* (ASPÖCK & ASPÖCK, 1964).

Key words: Lacewings, snakeflies, alderflies, distribution

Introduction

The Republic of Albania is located in the south-western part of the Balkan Peninsula, South-eastern Europe. It is a mountainous country. Albania has mainly a Mediterranean climate, though in the higher mountainous parts the climate is cooler. The country, containing high mountains, hills, coastal and river plains, provides a variety of habitats to numerous insect species.

The neuropterid fauna of Albania is one of the most poorly studied in Europe. Old records of Neuropterida occurring in the country are scattered. The oldest record dates back to 1891, when ALBARDA recorded *Ornatoraphidia flavilabris* (“*Raphidia ophiopsis* var. *flavilabris* COSTA, 1855”) for the country (ALBARDA 1891). The first overview of the lacewing fauna for Albania was published by PONGRÁCZ (1923), who listed one raphidiopteran and 11 neuropteran species for the country. NAVÁS (1923, 1932) added three neuropterid species to the list. At the end of the Second World War, CAPRA (1945) recorded six neuropteran species, among which he described *Cueta albanica* as a new species. Today, this species is con-

sidered a synonym for *C. lineosa* (RAMBUR) (ASPÖCK *et al.* 2001). Later, STEINMANN (1963, 1964) mentioned two snakefly species for Albania but thereof one was cited outside nowadays Albania, in Kosovo.

ZELENÝ (1964) reported 24 species of Neuroptera collected during an entomological expedition in Albania in 1961, organised by the German Entomological Institute (Berlin-Friedrichshagen, Germany), or collated from previous literature records. Based on the material collected during the expedition, BARTOŠ (1964) listed for the country two snakefly species. At the same time, ASPÖCK & ASPÖCK (1964) described *Phaeostigma thaleri* as a new species but they erroneously assigned it to occur in FR of Montenegro. The description was based on a single male specimen collected in Vermosh, which is now located in Northern Albania.

Later, a series of papers containing sporadic information on Albanian snakeflies were published by H. ASPÖCK, U. ASPÖCK and H. RAUSCH (ASPÖCK & ASPÖCK 1965, 1966, 1974, ASPÖCK *et al.* 1973, 1980, 1989, 1991, 2001). ASPÖCK *et al.* (1977a) described

* This article is dedicated to Professor Maria Matilde Principi on the occasion of her 100th birthday (2015, 4th May).

the only Balkan species of the family Nevrothidae and referred it for Albania (see JONES, DEVETAK 2009). The data on the distribution of neuropterid fauna of Albania were summarised in the catalogue of the Palearctic Neuropterida by ASPÖCK *et al.* (2001). In the overview there were 31 neuropteran and four raphidiopteran species recorded in Albania. In 2015, the first alderfly species in the country was collected (DVOŘÁK, in press).

In 2004, a new era of the study of Albanian Neuropterida has started. POPOV (2004) listed two owlfly species for Albania. In the years from 2007 to 2014, biologists from the Hungarian Natural History Museum (Budapest) organised collecting trips to the Balkan countries, including Albania. As a result of the field trips, SZIRÁKI (2014) published new data on the occurrence of the snakeflies in Albania.

In the period from 2012 to 2014, three Balkan expeditions were organised by zoologists from the Department of Biology of the University of Maribor (Slovenia) with the aim to collect lacewings in the country. The expeditions resulted in a series of papers (DEVETAK & JANŽEKOVIČ 2012, DEVETAK *et al.* 2012, 2013, KLOKOČOVNIK *et al.* 2014, 2016 – in press; PODLESNIK *et al.* 2016). Between 2012 and 2014, Hubert and Renate Rausch (Scheibbs, Austria) conducted two entomological trips to some mountains in the Balkan Region and Aegean islands. The few observed lacewings from Albania were also considered here. Thanks to the Slovenian and Austrian expeditions, a significant number of lacewings was collected, and so it became possible to get more complete picture on the faunal composition of Neuropterida of the country.

Material and Methods

The Department of Biology of the University of Maribor organised three collecting trips to Albania. The first trip was carried out in the south of the country in July 2012 with the participation of four entomologists (V. Klokočovnik, J. Podlesnik, F. Janžekovič, D. Devetak). The focus of the second trip in June 2013 was Northern and Southern Albania (V. Klokočovnik, J. Podlesnik, T. Klenovšek, D. Devetak). The third trip in June and July 2014 was carried out in Central and Southern Albania (V. Klokočovnik, J. Podlesnik, T. Klenovšek, F. Janžekovič, D. Devetak).

Albania is divided into twelve administrative units (counties, in Albanian “prefekturë”; Fig. 1). Collection sites presented in the checklist are detailed in the Table 1. For each species, we provide the list of localities based on collected material and literature data. Codes of the localities include two-letter

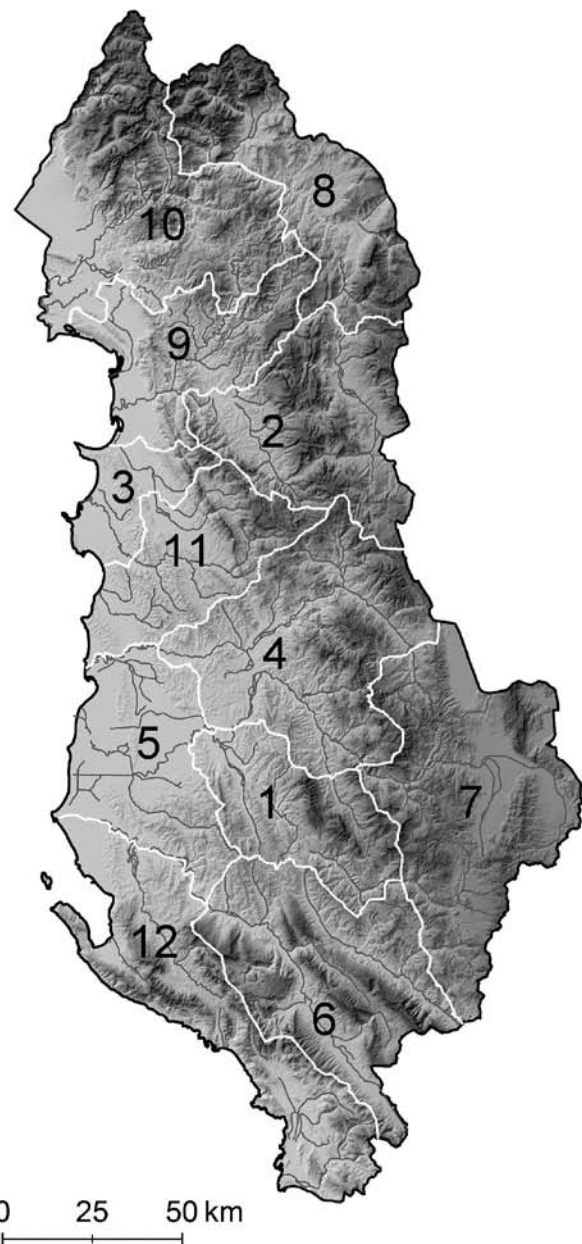


Fig. 1. Division of the Republic of Albania into twelve administrative counties. Legend: 1 – Berat, 2 – Dibër, 3 – Durrës, 4 – Elbasan, 5 – Fier, 6 – Gjirokastrë, 7 – Korçë, 8 – Kukës, 9 – Lezhë, 10 – Shkodër, 11 – Tirana, 12 – Vlorë

abbreviations of the counties and a numerical code (Table 1). Specimens collected during Slovenian and Austrian expeditions are deposited in the collections of the first and second authors.

Results

Checklist of species

Raphidioptera

Raphidiidae

Phaeostigma (Phaeostigma) notatum (Fabricius, 1781)

Shkodër County: Sh10 (ASPÖCK & ASPÖCK 1965).

Table 1. A list of collecting sites in Albania. Legend: SExp12, SExp13, SExp14 – Slovenian expeditions in 2012, 2013 and 2014; AExp12 and AExp14 – Austrian expeditions in 2012 and 2014

County	Reference	Code	Collection site
Berat County			
	SExp12	Be 1	Berat County: Berat, Castle Park, 165 m a.s.l.; 40°41.48'N 19°57.36'E; 16.-22.VII.2012
	SExp12	Be 2	Berat County: Berat, Gorica, 65 m a.s.l.; 40°41.48'N 19°57.36'E; 16.VII.2012
	SExp12	Be 3	Berat County: River Osumi: NE Berat, sandbank; 65 m a.s.l.; 40°41.17'N 19°58.80'E; 19.VII.2012
	SExp13	Be 4	Berat County: Berat: sand dunes of Osumi river; 62 m a.s.l.; N 40° 41,234' E 19° 58,606'; 26. VI. 2013
	SExp12	Be 5	Berat County: Osumi River: Poliçani, 250 m a.s.l.; 40°34.84'N 20°7.70'E; 17.VII.2012
	BARTOŠ (1964), ZELENÝ (1964)	Be 6	Berat County: Poliçani
	SExp12	Be 7	Berat County: Osumi River: SE of Poliçani, 190 m a.s.l.; 40°33.31'N 20°8.54'E; 17.VII.2012
	SExp12	Be 8	Berat County: Osumi River: near Çorovoda, 375 m a.s.l.; 40°27.49'N 20°16.23'E; 17.VII.2012
	SExp12	Be 9	Berat County: between Berat and Këlcyra: Qafa e Gllavës; 770-902 m a.s.l.; 40°32.35'N 20°0.19'E; 18.VII.2012
	SExp12	Be10	Berat County: between Berat and Këlcyra: Droboniku-Zhitomi; 525 m a.s.l.; 40°39.20'N 19°58.19'E; 19.VII.2012
	SExp13	Be11	Berat County: between Berat and Këlcyra: Droboniku-Zhitomi, 530 m a.s.l., N 40° 39,152' E 19° 58,305'; 27. VI. 2013
	SExp12	Be12	Berat County: Between Berat and Këlcyra: Tërpani; 40°38.37'N 19°58.68'E; 19. VII. 2012
	POPOV (2004)	Be13	Berat County: Skrapar District: Ostrovica Mts.
	SZIRÁKI (2014)	Be14	Berat County: Skrapar District: Tomorr Mts., 7 km NW of Terovë
Dibër County			
	ASPOČEK <i>et al.</i> (1977a), JONES & DEVETAK (2009)	Di 1	Dibër County, Dibër District: Ploshtan
	BARTOŠ (1964), ZELENÝ (1964)	Di 2	Dibër County: Lurë National Park / Parku Kombëtar i Lurës
	CAPRA (1945)	Di 3	Dibër County: Burrel
	PONGRÁČZ (1923)	Di 4	Dibër County: Mount Korab, Korab-Koritnik Natural Park / Parku natyror Korab-Koritnik
	SZIRÁKI (2014)	Di 5	Dibër County: Dibër District, Korab Mts., Radomirë
	AExp12	Di 6	Dibër County: Mat District, 3km E Lis, E Burgajet, 680 m a.s.l.; N 41°37'52" E 20°6'45"; 13. VI. 2012
	AExp12	Di 7	Dibër County: Mat District, 3km E Lis, E Burgajet, 680 m a.s.l.; N 41°37'52" E 20°6'45"; 13. VI. 2012; on light traps
	AExp12	Di 8	Dibër County: Dibër District, 3km E Lis, E Burgajet, W Qafa e Murrës; 1100 m; N 41°38'29" E 20°9'17"; 14. VI. 2012
Elbasan County			
	SExp14	El 1	Elbasan County, Librazhd; spring, 200 m a.s.l.; 41° 10.013' N, 20° 11.839' E; 26. VI. 2014
	SExp14	El 2	Elbasan County, E of Librazhd; meadow, 275 m a.s.l.; 41° 10.780' N, 20° 16.099' E; 26. VI. 2014
	SExp14	El 3	Elbasan County, Hotolisht; near river Shkumbin; 280 m; 41° 9.141' N, 20° 22.130' E; 26. VI. 2014
	SExp14	El 4	Elbasan County, Prrenjas near Hotolisht; rivulet; 550 m a.s.l.; 41° 4.302' N, 20° 30.751' E; 26. VI. 2014

Table 1. Continued

County	Reference	Code	Collection site
	SExp14	El 5	Elbasan County, Lini (above Ohrid Lake); meadow with <i>Carpinus</i> , <i>Juniperus</i> ; 830 m; 41° 3.794' N, 20° 37.519' E; 26. VI. 2014
Fier County			
	SExp12	Fi 1	Fier County: Parku Kombëtar Divjake Karavasta, sand dunes; 1-2 m a.s.l.; 40°58'38"N, 19°28'41"E; 23.VII.2012
	SExp12	Fi 2	Fier County: Apollonia; 45 m a.s.l.; 40°43.26'N, 19°28.29'E; 24.VII.2012
	SExp12	Fi 3	Fier County: Apollonia, surroundings: sand dunes; 0-3 m a.s.l.; 40°43.40'N, 19°22.12'E; 24.VII.2012
	SExp14	Fi 4	Fier County: Divjakë: Parku Kombëtar Divjakë Karavasta; sand dunes; 40° 58,668' N, 19° 28,682' E; 1. VII. 2014
	DVOŘÁK (in press)	Fi 5	Fier County: 14 km SW Fier, Fitore env.; bank of river Vjosa; 40°39'20.35"N, 19°27'16.78"E
Gjirokaštër County			
	SExp12	Gj 1	Gjirokaštër County: S of Qafa e Gllavës: Ballabani; 920 m a.s.l.; 40°29.98'N, 19°58.54'E; 18.VII.2012
	SExp12	Gj 2	Gjirokaštër County: Këlcyra: bank of Vjosa River; 570 m a.s.l.; 40°17'57"N, 20°06'34"E; 18.VII.2012
	SExp12	Gj 3	Gjirokaštër County: Parku Kombëtar Bredhi i Hotovës-Dangelli, lodge; 1170 m a.s.l.; 40°20.58'N, 20°22.76'E; 20.VII.2012
	SExp12	Gj 4	Gjirokaštër County: Parku Kombëtar Bredhi i Hotovës-Dangelli, brook; 1150 m a.s.l.; 40°20.57'N, 20°23.84'E; 21.VII.2012
	SExp12	Gj 5	Gjirokaštër County: Parku Kombëtar Bredhi i Hotovës-Dangelli, peak; 1270 m a.s.l.; 40°21.81'N, 20°23.10'E; 21.VII.2012
	SExp12	Gj 6	Gjirokaštër County: Parku Kombëtar Bredhi i Hotovës-Dangelli, Frashëri; <i>Pinus</i> , 1090 m; N 40°22,03', E 20°25,20'; 21. VII. 2012
	SExp14	Gj 7	Gjirokaštër County: upper river Vjosa valley, near Çarshovë; 445 m a.s.l.; dry meadow; 40° 07,800' N, 20° 31,116' E; 29. VI. 2014
	ZELÉNY (1964)	Gj 8	Gjirokaštër County: near Tepelenë, Cold Water Nature Monument: Uji i Ftohte
	SZIRÁKI (2014)	Gj9	Gjirokaštër County: Tepelenë District: Hormovë
Korçë County			
	NAVÁS (1923)	Ko 1	Korçë County: Korçë
	SExp14	Ko 2	Korçë County, Pogradeci surroundings; 40° 59.501' N, 20° 38.253' E; 26. VI. 2014
	SExp14	Ko 3	Korçë County, Parku Kombëtar Bredhi i Drenovës, entrance in the Park; 1015 m a.s.l.; 40° 35.364' N, 20° 48.014' E; 27. VI. 2014
	SExp14	Ko 4	Korçë County, Parku Kombëtar Bredhi i Drenovës, mixed forest: <i>Abies</i> , <i>Acer obtusatum</i> , <i>Fagus</i> , <i>Pinus</i> ; 1340 m a.s.l.; 40° 34.813' N, 20° 50.566' E; 27. VI. 2014
	SExp14	Ko 5	Korçë County, Parku Kombëtar Bredhi i Drenovës, mixed forest: <i>Abies</i> , <i>Acer obtusatum</i> , <i>Fagus</i> , <i>Pinus</i> ; 1375 m a.s.l.; 40° 35.128' N, 20° 50.691' E; 27. VI. 2014
	SExp14	Ko 6	Korçë County, Parku Kombëtar Bredhi i Drenovës, mixed forest; 1425 m a.s.l.; 40° 35.196' N, 20° 50.482' E; 27. VI. 2014
	SExp14	Ko 7	Korçë County, Parku Kombëtar Bredhi i Drenovës, meadow-forest edge; 1265 m a.s.l.; 40° 34.867' N, 20° 49.965' E; 27. VI. 2014
	SExp14	Ko 8	Korçë County, Parku Kombëtar Bredhi i Drenovës, rivulet; 1245 m a.s.l.; 40° 34.947' N, 20° 50.060' E; 27. VI. 2014
	SExp14	Ko 9	Korçë County, Parku Kombëtar Bredhi i Drenovës, meadow-bushes; 1130 m a.s.l.; 40° 35.166' N, 20° 49.251' E; 27. VI. 2014
	SExp14	Ko10	Korçë County: Gramoz Mt., between Korçë and Ersekë: north of Mollas; rivulet; 890 m a.s.l.; 40° 27.615' N, 20° 39.892' E; 28. VI. 2014
	SExp14	Ko11	Korçë County: Gramoz Mt., artificial lake near Mollas; 40° 26' 24" N, 20° 40' 49" E; 880 m a.s.l.; 28. VI. 2014

Table 1. Continued

County	Reference	Code	Collection site
	SExp14	Ko12	Korçë County: Gramoz Mt., Vila Germejti Jorgo; decid. forest; 40° 13.547' N, 20° 39.639' E; 1050 m a.s.l.; 29. VI. 2014
	SExp14	Ko13	Korçë County: Gramoz Mt, near Jorgo; 1020 m a.s.l.; 40° 13,065' N, 20° 39,081' E; 29. VI. 2014
	SExp14	Ko14	Korçë County: Gramoz Mt., between Jorgo and Leskoviku; 1115 m a.s.l.; <i>Pinus nigra</i> forest; 40° 11,735' N, 20° 39,121' E; 29. VI. 2014
	AExp14	Ko15	Korçë County: between Boboshticë and Dardhë; 1550 m a.s.l.; N 40°31'36" E 20°48'16"; 25. VI. 2014
Kukës County			
	PONGRÁCZ (1923), ASPÖCK <i>et al.</i> (1977a), JONES & DEVETAK (2009)	Ku 1	Kukës County: Kukës District: Bicaj
	PONGRÁCZ (1923), ZELENÝ (1964)	Ku 2	Kukës County: Tropojë
	SZIRÁKI (2014)	Ku 3	Kukës County: Tropojë District: Bjeshkët e Namuna (=Alpet Shqiptare): Curraj i Epërm
	PONGRÁCZ (1923)	Ku 4	Kukës County: Mali i Gjalicës (Gjalica e Lumes Mts.)
	PONGRÁCZ (1923), ZELENÝ (1964)	Ku 5	Kukës County: Kulla e Lumës
	ASPÖCK & ASPÖCK (1966), SZIRÁKI (2014)	Ku 6	Kukës County: Has District, Pashtrik Mts.
Lezhë County			
	SZIRÁKI (2014)	Le 1	Lezhë County: Mirditë District, Ndërshenë
Shkodër County			
	CAPRA (1945)	Sh 1	Shkodër County: Shkodër
	CAPRA (1945)	Sh 2	Shkodër County: Koplík
	SExp13	Sh 3	Shkodër County: Bjeshkët e Namuna (=Alpet Shqiptare): Bogë; 850-980 m a.s.l.; N 42° 23,981', E 19° 39,457'; 24.-25. VI. 2013
	SExp13	Sh 4	Shkodër County: Bjeshkët e Namuna (=Alpet Shqiptare): 2-5 km south of Bogë; 840 m a.s.l.; N 42° 21,551', E 19° 38,032'; 24. VI. 2013
	SExp13	Sh 5	Shkodër County: Bjeshkët e Namuna (=Alpet Shqiptare): 2 km north of Bogë; 1195 m a.s.l.; N 42° 23,817', E 19° 41,820'; 24. VI. 2013
	SExp13	Sh 6	Shkodër County: Bjeshkët e Namuna (=Alpet Shqiptare): north of Bogë; 1140 m a.s.l.; N 42° 23,819', E 19° 41,204'; 24. VI. 2013
	SExp13	Sh 7	Shkodër County: Bjeshkët e Namuna (=Alpet Shqiptare): Thethi; 805 m a.s.l.; N 42° 23,868', E 19° 46,314'; 25. VI. 2013
	SExp13	Sh 8	Shkodër County: Bjeshkët e Namuna (=Alpet Shqiptare): west of pass Qafa e Tërthorës; 1540 m a.s.l.; N 42° 23,483', E 19° 42,824'; 25. VI. 2013
	SExp13	Sh 9	Shkodër County: Bjeshkët e Namuna (=Alpet Shqiptare): between Qafa e Tërthorës and Bogë; 1280 m a.s.l.; N 42° 23,780', E 19° 42,308'; 25. VI. 2013
	ASPÖCK & ASPÖCK (1964, 1965), POPOV (2004)	Sh10	Shkodër County: Vermosh
	AExp12	Sh11	Shkodër County: Puka District; between Fushë-Arrëz and Fierzë; 800-900m; N 42°8'32", E 20°9'53"; 15. VI. 2012

Table 1. Continued

County	Reference	Code	Collection site
Tirana County			
	ZELÉNY (1964)	Ti 1	Tirana County: Tirana
	ZELÉNY (1964)	Ti 2	Tirana County: Mali me Grope
	BARTOŠ (1964), ZELÉNY (1964)	Ti 3	Tirana County: Krrabë
	ZELÉNY (1964)	Ti 4	Tirana County: Dajti Mountain National Park / Parku Kombëtar Mali i Dajtit
	ZELÉNY (1964)	Ti 5	Tirana County: Bizë near Shëngjergj
Vlorë County			
	NAVÁS (1932), ZELÉNY (1964)	VI 1	Vlorë County: Vlorë
	ZELÉNY (1964)	VI 2	Vlorë County: Borsh
	SExp14	VI 3	Vlorë County: Butrint; 39° 44,761' N, 20° 01,183' E; 30. VI. 2014
	DEVETAK <i>et al.</i> (2012)	VI 4	Vlorë County: Butrint
	SExp14	VI 5	Vlorë County: Mesopotam; 39°54'18"N, 20°05'09"E; 30. VI. 2014
	ZELÉNY (1964)	VI 6	Vlorë County: Sarandë
	BARTOŠ (1964), POPOV (2004)	VI 7	Vlorë County: Lukovë near Sarandë
	AExp12	VI 8	Vlorë County: Llogara NP, Llogara Pass, 1000-1100 m a.s.l.; N 40°11'53", E 19° 35'33"; 09.-10. VI. 2012

The record published by ASPÖCK & ASPÖCK (1965) belongs either to *Ph. notatum* or to *Ph. galloitalicum* because the latter is described later (in 1976).

***Phaeostigma (Phaeostigma) galloitalicum* (H. Aspöck & U. Aspöck, 1976)**

Kukës County: Ku 6 (SZIRÁKI 2014).

Lezhë County: Le 1 (SZIRÁKI 2014).

***Phaeostigma (Phaeostigma) pilicollis* (Stein, 1863)**

Korçë County: Ko 5, Ko15.

Vlorë County: VI 8.

First record in Albania.

***Phaeostigma (Magnoraphidia) klimeschi* (H. Aspöck & U. Aspöck, 1964)**

Berat County: Be14 (SZIRÁKI 2014); Dibër County: Di 5 (SZIRÁKI 2014).

***Phaeostigma thaleri* (H. Aspöck & U. Aspöck, 1964)**

Korçë County: Ko 3, Ko 6.

Shkodër County: Sh10 (ASPÖCK & ASPÖCK 1964)

In the National Park Bredhi i Drenovës two males and one female were collected in 2014. The species description is based on a single male collected a century ago in Northern Albania (locality Vermosh was assigned later as a part of Montenegro) (ASPÖCK & ASPÖCK 1964; PENTHER 1914). The recent spectacular finding is the second record of the species and the first one of female.

***Dichrostigma flavipes* (Stein, 1863)**

Dibër County: Di 8.

Elbasan County: El 3, El 4, El 5.

Korçë County: Ko 7, Ko 8, Ko10.

Kukës County: Ku 6 (SZIRÁKI 2014).

Lezhë County: Le 1 (SZIRÁKI 2014).

Shkodër County: Sh 3, Sh 4, Sh 5, Sh 9.

Vlorë County: VI 7 (BARTOŠ 1964), VI 8.

***Turcoraphidia amara* (H. Aspöck & U. Aspöck, 1964)**

Kukës County: Ku 3 (SZIRÁKI 2014), Ku 6 (ASPÖCK & ASPÖCK 1964, 1966; SZIRÁKI 2014).

Lezhë County: Le 1 (SZIRÁKI 2014).

***Ornatoraphidia flavilabris* (A. Costa, 1855)**

Korçë County: Ko15.

Shkodër County: Sh 5, Sh 8, Sh 9.

First record in Albania.

***Parvoraphidia microstigma* (Stein, 1863)**

Gjirokaštër County: Gj 9 (SZIRÁKI 2014).

Korçë County: Ko 5, Ko 7, Ko 9, Ko15.

Vlorë County: VI 8.

Reported for the country by ASPÖCK & ASPÖCK (1965, 1974), ASPÖCK *et al.* (1980, 1991, 2001) and SZIRÁKI (2014).

***Raphidia (Raphidia) ophiopsis* Linnaeus, 1758**

Berat County: Be 6 (BARTOŠ 1964).

Dibër County: Di 2 (BARTOŠ 1964).

Korçë County: Ko 1 (NAVÁS 1923).

Kukës County: Ku 4 (PONGRÁCZ 1923).

Tirana County: Ti 3 (BARTOŠ 1964).

NAVÁS (1923), PONGRÁCZ (1923) and BARTOŠ (1964) listed a few localities for *R. ophiopsis* in Albania.

Comment: *R. (R.) mediterranea* was described in 1977 as a subspecies of *Raphidia ophiopsis* (ASPÖCK *et al.* 1977b). Based on more recent knowledge on the biology, ecology, chorology and taxonomy the formerly described subspecies are regarded as well-differentiated species. The old references (NAVÁS (1923), PONGRÁCZ (1923) and BARTOŠ (1964) are not reliable because the authors did not know *R. (R.) mediterranea*. However, it could be possible that in Albania two closely related species of the genus

Raphidia occur, namely *Raphidia (Raphidia) ophiopsis* and *R. (R.) mediterranea*.

***Puncha ratzeburgi* (Brauer, 1876)**

Kukës County: Ku 3 (SZIRÁKI 2014).

***Venustoraphidia nigricollis* (Albarda, 1891)**

Korçë County: Ko12.

Reported for the country by ASPÖCK & ASPÖCK (1969), ASPÖCK *et al.* (1973, 1980, 1991, 2001).

Inocelliidae

***Parainocellia (Parainocellia) braueri* (Albarda, 1891)**

Dibër County: Di 6.

First record in Albania.

Megaloptera

Sialidae

***Sialis fuliginosa* Pictet, 1836**

Fier County: Fi 5 (DVOŘÁK, in press).

Neuroptera

Suborder Nevrorthiformia

Nevrorthidae

***Nevrorthus apatelios* H. Aspöck, U. Aspöck & Hölzel, 1977**

Dibër County: Di 1 (ASPÖCK *et al.* 1977a, JONES & DEVETAK 2009).

Kukës County: Ku 1 (ASPÖCK *et al.* 1977a, JONES & DEVETAK 2009).

Vlorë County: Vl 2 (ZELENÝ 1964).

Suborder Hemerobiiformia

Osmyliidae

***Osmylus fulvicephalus* (Scopoli, 1763)**

Gjirokastrë County: Gj 8 (ZELENÝ 1964).

Korçë County: Ko 8, Ko10, Ko11.

Kukës County: Ku 5 (ZELENÝ 1964).

Vlorë County: Vl 2 (ZELENÝ 1964).

Chrysopidae

***Nothochrysa capitata* (Fabricius, 1793)**

Korçë County: Ko 5.

First record in Albania.

***Hypochrysa elegans* (Burmeister, 1839)**

Korçë County: Ko15.

Reported for the country by ASPÖCK *et al.* (1980, 2001)

***Italochrysa italica* (Rossi, 1790)**

Berat County: Be 1, Be 5, Be12.

Gjirokastrë County: Gj 1, Gj 3.

First record in Albania.

***Chrysopa perla* (Linnaeus, 1758)**

Korçë County: Ko 4, Ko 5, Ko 8.

Shkodër County: Sh 8.

First record in Albania.

***Chrysopa dorsalis* Burmeister, 1839**

Dibër County: Di 6, Di 7.

Gjirokastrë County: Gj 6.

Korçë County: Ko 6, Ko12.

Shkodër County: Sh 4, Sh 9, Sh11.

Vlorë County: Vl 8.

First record in Albania.

***Chrysopa hungarica* KLAPÁLEK, 1899**

Reported for the country by ASPÖCK & ASPÖCK (1969), ASPÖCK *et al.* (1980, 2001).

***Chrysopa abbreviata* Curtis, 1834**

Reported for the country by ASPÖCK *et al.* (1980, 2001).

***Chrysopa formosa* Brauer, 1851**

Berat County: Be 1, Be11.

Dibër County: Di 6.

Gjirokastrë County: Gj 1, Gj 8 (ZELENÝ 1964).

Kukës County: Ku 1 (PONGRÁCZ 1923).

Shkodër County: Sh 4.

Vlorë County: Vl 2 (ZELENÝ 1964).

***Chrysopa viridana* Schneider, 1845**

Fier County: Fi 3.

Gjirokastrë County: Gj 1, Gj 5.

Shkodër County: Sh 4.

First record in Albania.

***Chrysopa nigricostata* BRAUER, 1851**

Gjirokastrë County: Gj 6.

Shkodër County: Sh 3.

First record in Albania.

***Chrysopa pallens* (Rambur, 1838) sensu lato**

Gjirokastrë County: Gj 8 (ZELENÝ 1964).

Reported for the country by ZELENÝ (1964). Today, within *pallens*-complex, two species are distinguished, namely *Chrysopa pallens* (RAMBUR, 1838) sensu stricto and *Chrysopa gibeauxi* (LERAUT, 1989) (TILLIER *et al.* 2014; DEVETAK *et al.* 2015), thus it is not clear the identity of the individuals recorded by ZELENÝ (1964).

***Pseudomallada flavifrons* (Brauer, 1851)**

Berat County: Be 1.

Dibër County: Di 6, Di 7.

Elbasan County: El 3.

Gjirokastrë County: Gj 3, Gj 4.

Korçë County: Ko 9, Ko 10, Ko11, Ko12, Ko14.

Shkodër County: Sh 3, Sh 4, Sh 7, Sh11.

Vlorë County: Vl 2 (ZELENÝ 1964), Vl 8.

***Pseudomallada inornatus* (NAVÁS, 1901)**

Berat County: Be 8.

Gjirokastrë County: Gj 3.

First record in Albania.

***Pseudomallada prasinus* (Burmeister, 1839)**

Gjirokastrë County: Gj 3.

Korçë County: Ko10.

Shkodër County: Sh 3, Sh 5.

Old literature records of the species (PONGRÁCZ 1923; ZELENÝ 1964) are dubious due to the fact that distinguishing between *Pseudomallada prasinus* and *P. abdominalis* was not clear at that time.

***Pseudomallada abdominalis* (Brauer, 1856)**

Berat County: Be 3.

Gjirokastrë County: Gj 1, Gj 3, Gj 4, Gj 5, Gj 6.

Korçë County: Ko10, Ko11.

Vlorë County: Vl 3.

First record in Albania.

***Pseudomallada zelleri* (Schneider, 1851)**

Berat County: Be 1, Be10.

Dibër County: Di 7.

Elbasan County: El 5.

Gjirokastrë County: Gj 1, Gj 3.

First record in Albania.

***Pseudomallada ventralis* (Curtis, 1834)**

Korçë County: Ko 4, Ko 5, Ko 6.

First record in Albania.

***Pseudomallada clathratus* (Schneider, 1845)**

Korçë County: Ko12, Ko14.

Kukës County: Ku 5 (ZELENÝ 1964).

Tirana County: Ti 4 (ZELENÝ 1964).

Vlorë County: Vl 1 (NAVÁS 1932).

***Cunctochrysa albolineata* (Killington, 1935)**

Shkodër County: Sh 3.

First record in Albania.

***Peyerimhoffina gracilis* (Schneider, 1851)**

Gjirokastrë County: Gj 3.

Korçë County: Ko 4, Ko 5.

First record in Albania.

***Chrysoperla carnea* (Stephens, 1836) sensu lato**

Berat County: Be 1, Be11, Be12.

Gjirokastrë County: Gj 6.

Korçë County: Ko 4, Ko11, Ko12, Ko13.

Shkodër County: Sh 3, Sh 4.

Vlorë County: Vl 3.

ZELENÝ (1964) listed a series of localities, but in his time the identity of individuals assigned to *Chrysoperla carnea* was unclear.

***Chrysoperla lucasina* (Lacroix, 1912)**

Berat County: Be 1, Be 3, Be10, Be11, Be12.

Elbasan County: El 1, El 3, El 4, El 5.

Gjirokastrë County: Gj 1, Gj 3, Gj 4, Gj 5, Gj 6.

Korçë County: Ko 2, Ko 3, Ko 4, Ko 5, Ko 6, Ko 7, Ko 9, Ko10, Ko12, Ko13.

Shkodër County: Sh 3, Sh 4, Sh 5, Sh 7, Sh 9.

First record in Albania.

***Chrysoperla pallida* Henry, Brooks, Duelli & Johnson,**

2002

Berat County: Be 1, Be 3, Be 5.

Elbasan County: El 1.

Gjirokastrë County: Gj 3, Gj 4, Gj 5, Gj 6.

Korçë County: Ko 2, Ko 4.

Shkodër County: Sh 3, Sh 4.

Vlorë County: Vl 3.

First record in Albania.

***Chrysoperla mediterranea* (Hölzel, 1972)**

Berat County: Be 1, Be 5, Be10.

Gjirokastrë County: Gj 6.

Korçë County: Ko 2, Ko10.

First record in Albania.

***Suarius nanus* (McLachlan, 1893)**

Berat County: Be 1 (PODLESNIK *et al.* 2016).

Elbasan County: El 3 (PODLESNIK *et al.* 2016).

Hemerobiidae

***Hemerobius humulinus* Linnaeus, 1758**

Kukës County: Ku 4 (PONGRÁCZ 1923).

Shkodër County: Sh 7 (KLOKOČOVNIK *et al.* 2014).

***Hemerobius stigma* Stephens, 1836**

Korçë County: Ko 7.

First record in Albania.

***Hemerobius contumax* Tjeder, 1932**

Korçë County: Ko 5.

First record in Albania.

***Hemerobius handschini* Tjeder, 1957**

Dibër County: Di 6.

Korçë County: Ko 5, Ko 7, Ko12, Ko13, Ko14, Ko15.

Shkodër County: Sh 4 (KLOKOČOVNIK *et al.* 2014), Sh 9 (KLOKOČOVNIK *et al.* 2014).

Comment: When PONGRÁCZ (1923) assigned Albanian specimens originating from Kukës County (Mali i Gjalicës) to *Hemerobius nitidulus* FABRICIUS, 1777, a similar species,

Hemerobius handschini TJEDER, 1957, had not yet been described, thus in PONGRÁCZ's time the identity of individuals assigned to *H. nitidulus* was unclear.

***Hemerobius micans* Olivier, 1793**

Berat County: Be11.

Gjirokastrë County: Gj 3 (KLOKOČOVNIK *et al.* 2014).

Shkodër County: Sh 4 (KLOKOČOVNIK *et al.* 2014), Sh 5 (KLOKOČOVNIK *et al.* 2014), Sh 8 (KLOKOČOVNIK *et al.* 2014).

Korçë County: Ko 8.

Tirana County: Ti 2 (ZELENÝ 1964), Ti 5 (ZELENÝ 1964).

***Hemerobius lutescens* Fabricius, 1793**

Shkodër County: Sh 8 (KLOKOČOVNIK *et al.* 2014).

***Hemerobius gilvus* Stein, 1863**

Shkodër County: Sh 3 (KLOKOČOVNIK *et al.* 2014), Sh 4 (KLOKOČOVNIK *et al.* 2014).

***Wesmaelius nervosus* (Fabricius, 1793)**

Dibër County: Di 4 (PONGRÁCZ 1923).

Tirana County: Ti 5 (ZELENÝ 1964).

***Wesmaelius subnebulosus* (Stephens, 1836)**

Korçë County: Ko 3.

Shkodër County: Sh 3 (KLOKOČOVNIK *et al.* 2014).

***Wesmaelius ravus* (Withycombe, 1923)**

Reported for the country by ASPÖCK *et al.* (1980, 2001).

***Wesmaelius persimilis* (Ohm, 1967)**

Reported for the country by ASPÖCK *et al.* (1980, 2001).

***Sympherobius pygmaeus* (Rambur, 1842)**

Shkodër County: Sh 3 (KLOKOČOVNIK *et al.* 2014).

***Sympherobius elegans* (Stephens, 1836)**

Shkodër County: Sh 8 (KLOKOČOVNIK *et al.* 2014).

Vlorë County: Vl 3.

***Sympherobius pellucidus* (Walker, 1853)**

Korçë County: Ko15.

Shkodër County: Sh 3 (KLOKOČOVNIK *et al.* 2014).

***Megalomus tortricoides* Rambur, 1842**

Dibër County: Di 2 (ZELENÝ 1964).

Korçë County: Ko 4, Ko12, Ko15.

Shkodër County: Sh 3 (KLOKOČOVNIK *et al.* 2014), Sh11.

Vlorë County: Vl 8.

***Micromus lanosus* (Zelený, 1962)**

Shkodër County: Sh 8 (KLOKOČOVNIK *et al.* 2014).

Coniopterygidae

***Aleuropteryx loewii* Klapálek, 1894**

Dibër County: Di 6, Di 7.

Korçë County: Ko 6, Ko 7.

First record in Albania.

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

Dibër County: Di 7.

Korçë County: Ko13.

Shkodër County: Sh 3.

First record in Albania.

***Coniopteryx (Coniopteryx) borealis* Tjeder, 1930**

Gjirokastrë County: Gj 3.

First record in Albania.

***Coniopteryx (Coniopteryx) pygmaea* Enderlein, 1906**

Dibër County: Di 6, Di 7.

Gjirokastrë County: Gj 3, Gj 4.

Korçë County: Ko 5, Ko 6.

Shkodër County: Sh 9.

First record in Albania.

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

Shkodër County: Sh 3.

First record in Albania.

***Semidalis aleyrodiformis* (Stephens, 1836)**

Shkodër County: Sh 3.

First record in Albania.

Dilaridae

***Dilar turcicus* Hagen, 1858**

Gjirokaštër County: Gj 3.

Listed for Albania by ASPÖCK *et al.* (1980, 2001, 2015).

Mantispidae

***Mantisa styriaca* (Poda, 1761)**

Gjirokaštër County: Gj 5 (DEVETAK *et al.* 2012).

***Mantisa aphavexelte* U. Aspöck & H. Aspöck, 1994**

Dibër County: Di 6.

Vlorë County: Vl 4 (DEVETAK *et al.* 2012).

***Sagittata perla* (Pallas, 1772)**

Gjirokaštër County: Gj 5, Gj 6 (DEVETAK *et al.* 2012).

Berothidae

***Isoscelipteron fulvum* A. Costa, 1863**

Berat County: Be 1, Be 8.

Gjirokaštër County: Gj 1, Gj 8 (ZELENÝ 1964).

Suborder Myrmeleontiformia

Myrmeleontidae

***Palpares libelluloides* (Linnaeus, 1764)**

Berat County: Be 5 (DEVETAK *et al.* 2013), Be 9 (DEVETAK *et al.* 2013), Be 10 (DEVETAK *et al.* 2013).

Fier County: Fi 2 (DEVETAK *et al.* 2013).

Gjirokaštër County: Gj 5 (DEVETAK *et al.* 2013).

Kukës County: Ku 2 (PONGRÁCZ 1923).

Shkodër County: Sh 1 (CAPRA 1945), Sh 2 (CAPRA 1945).

Vlorë County: Vl 6 (ZELENÝ 1964).

***Acanthaclisis occitanica* (Villers, 1789)**

Fier County: Fi 4 (KLOKOČOVNIK *et al.* 2016, in press).

***Synclisis baetica* (Rambur, 1842)**

Fier County: Fi 4 (KLOKOČOVNIK *et al.* 2016, in press).

***Myrmecaelurus trigrammus* (Pallas, 1771)**

Berat County: Be 5 (DEVETAK *et al.* 2013), Be 7 (DEVETAK *et al.* 2013), Be 9 (DEVETAK *et al.* 2013).

Kukës County: Ku 2 (PONGRÁCZ 1923).

Shkodër County: Sh 1 (CAPRA 1945).

***Cueta lineosa* (Rambur, 1842)**

Berat County: Be 2 (DEVETAK *et al.* 2013), Be 3.

Gjirokaštër County: Gj 2.

Shkodër County: Sh 1 (CAPRA 1945).

Comment: CAPRA (1945) described the species under the name *Cueta albanica* from Shkodër (= "Scutari").

***Myrmeleon (Myrmeleon) formicarius* Linnaeus, 1767**

Berat County: Be 6 (ZELENÝ 1964).

Korçë County: Ko 6.

***Myrmeleon (Myrmeleon) inconspicuus* Rambur, 1842**

Berat County: Be 3 (DEVETAK *et al.* 2013), Be 7 (DEVETAK *et al.* 2013).

Fier County: Fi 4 (DEVETAK *et al.* 2013).

Gjirokaštër County: Gj 2 (DEVETAK *et al.* 2013).

***Myrmeleon (Myrmeleon) hyalinus* Olivier, 1811**

Fier County: Fi 1 (DEVETAK *et al.* 2013), Fi 3 (DEVETAK *et al.* 2013).

Remarks: The National Park Divjakë Karavasta (Fier County: Fi 1) is the northernmost known locality on the Balkan Peninsula.

***Euroleon nostras* (Geoffroy in Fourcroy, 1785)**

Berat County: Be 11.

Fier County: Fi 4.

Gjirokaštër County: Gj 3 (DEVETAK *et al.* 2013).

Korçë County: Ko 6.

***Macronemurus appendiculatus* (Latreille, 1807)**

Berat County: Be 3 (DEVETAK *et al.* 2013), Be 5 (DEVETAK *et al.* 2013), Be 11.

Elbasan County: El 1.

***Macronemurus bilineatus* Brauer, 1868**

Berat County: Be 9 (DEVETAK *et al.* 2013).

***Neuroleon (Neuroleon) arenarius* (Navás, 1904)**

Berat county: Be 2 (DEVETAK *et al.* 2013), Be 3 (DEVETAK *et al.* 2013).

Elbasan County: El 1.

Neuroleon (Neuroleon) egenus (NAVÁS, 1914)

Fier County: Fi 4.

First record in Albania.

***Neuroleon (Neuroleon) microstenus* (McLachlan, 1898)**

Berat County: Be 5.

Kukës County: Ku 2 (PONGRÁCZ 1923).

PONGRÁCZ (1923) described the species as "*Nelees irrortatus* Oliv. (*imbecillus* St.)" from Tropojë (Kukës County).

***Distoleon tetragrammicus* (Fabricius, 1798)**

Berat County: Be 1 (DEVETAK *et al.* 2013), Be 5 (DEVETAK *et al.* 2013), Be 6 (ZELENÝ 1964).

Elbasan County: El 3.

Gjirokaštër County: Gj 1 (DEVETAK *et al.* 2013).

Korçë County: Ko 5, Ko 14.

Kukës County: Ku 2 (PONGRÁCZ 1923).

Shkodër County: Sh 1 (CAPRA 1945), Sh 2 (CAPRA 1945).

Tirana County: Ti 4 (ZELENÝ 1964).

Vlorë County: Vl 5.

***Creoleon plumbeus* (Olivier, 1811)**

Berat County: Be 3 (DEVETAK *et al.* 2013), Be 6 (DEVETAK *et al.* 2013).

Fier County: Fi 1 (DEVETAK *et al.* 2013), Fi 2 (DEVETAK *et al.* 2013), Fi 3 (DEVETAK *et al.* 2013), Fi 4.

Gjirokaštër County: Gj 1 (DEVETAK *et al.* 2013).

Shkodër County: Sh 1 (CAPRA 1945).

Tirana County: Ti 1 (ZELENÝ 1964).

Vlorë County: Vl 1 (NAVÁS 1932; ZELENÝ 1964).

***Megistopus flavicornis* (Rossi, 1790)**

Elbasan County: El 3.

Tirana County: Ti 4 (ZELENÝ 1964).

Vlorë County: Vl 2 (ZELENÝ 1964).

Ascalaphidae

***Deleproctophylla australis* (Fabricius, 1787)**

Berat County: Be 9 (DEVETAK & JANŽEKVIČ 2012), Be 10.

***Libelloides lacteus* (Brullé, 1832)**

Berat County: Be 11.

Dibër County: Di 3 (CAPRA 1945), Di 8.

Korçë County: Ko 15.

Vlorë County: Vl 2 (ZELENÝ 1964).

***Libelloides macaronius* (Scopoli, 1763)**

Berat County: Be 9, Be 11, Be 13 (POPOV 2004).

Dibër County: Di 8.

Elbasan County: El 3, El 5.

Fier County: Fi 4.

Gjirokaštër County: Gj 5.

Korçë County: Ko 7, Ko 10, Ko 13, Ko 15.

Shkodër County: Sh 2 (CAPRA 1945), Sh10 (POPOV 2004).
 Tirana County: Ti 2 (ZELENÝ 1964), Ti 3 (ZELENÝ 1964), Ti 4 (ZELENÝ 1964), Ti 5 (ZELENÝ 1964).
 Vlorë County: Vl 7 (ZELENÝ 1964).
***Libelloides rhomboideus* (Schneider, 1845)**
 Vlorë County: Vl 7 (POPOV 2004).

Discussion

From the neuropterological point of view, Albania was poorly studied till recently. Field trips of Slovenian and Austrian entomologists during the last few years revealed a rich neuropterid fauna, comprising 13 of species of Raphidioptera, one of Megaloptera and 75 of Neuroptera. Three raphidiopteran and 24 neuropteran species of the 89 Neuropterida species reported in this paper are first records for the Albanian neuropterid fauna. Taking into account that extraordinarily high number of snakefly (Raphidioptera) species occurs in the Eastern Mediterranean (e.g. ASPÖCK *et al.* 1989, 1991, POPOV & LETARDI 2010), one can expect new findings of snakeflies for Albania. Important is the finding of *Phaeostigma thaleri* that was known

until now from a single male collected a century ago.

The past zoological expeditions in Albania were conducted late in spring or in summer, and megalopteran adults fly earlier in the season. This is the reason for sparse alderfly findings. The families dustywings (Coniopterygidae) and Inocelliidae were reported for the first time for the country. The main reason for sporadic coniopterygid findings is that dustywings are usually overlooked because of their small size.

With 89 species of Neuropterida, we estimate that only about three quarters of the neuropteran species living in Albania have been recorded so far.

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