

Contribution to the Odonata fauna of Albania and Montenegro

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ABSTRACT: Faunistical data of 37 Odonata species collected in Albania since 2007, and 20 species collected in Montenegro during the past ten years are enumerated. *Selysiothemis nigra* (Vander Linden, 1825) is new to the fauna of Albania. Notes and figures are given concerning the taxonomy, distribution, and ecology of 15 taxa.

Introduction

Until the past ten years, the Odonata fauna of Albania and Montenegro was rather poorly studied. The previous research in Albania was discussed and contributed by MURÁNYI (2007), since then date were added regarding faunistics and taxonomy (KITANOVA et al. 2013, MURÁNYI 2010, OLIAS et al. 2007), and some ecofaunistical aspects (e.g. HALIMI et al. 2010). Very recently, another comprehensive overview and contribution was published on the Odonata fauna of Montenegro (DE KNIJF et al. 2013).

In this paper we publish the Odonata material gathered as side targets by researchers and collaborators of the Hungarian Natural History Museum, the Mátra Museum of the Hungarian Natural History Museum, and the Hungarian Academy of Sciences during the last ten years in Montenegro, and in Albania since 2007. Besides the enumeration of faunistical data, we give notes and figures for taxonomy, distribution, and ecology of the some species found.

Material and methods

Specimens were collected by singling, with waternet, or sweeping net. They are stored in 70% ethanol and deposited in the Collection of Lesser Insect Orders, Department of Zoology, Hungarian Natural History Museum (HNHM), and in the Invertebrate Collection of the Mátra Museum of the Hungarian Natural History Museum (MM).

Nomenclature and works used for identification are as in MURÁNYI (2007). The localities are shown on a map of the Central-West Balkans (Fig. 1).

Abbreviations: *Life stages:* L = larva, E = exuviae, ♂ = male adult, ♀ = female adult. *Collectors:* BZ = Zoltán Barina, CSz = Szilvia Czigány, DL = László Dányi, EZ = Zoltán Eröss, FZ = Zoltán Fehér, HA = András Hunyadi, JP = Péter Juhász, KaT = Tomislav Karanovic, KJ = Jenő Kontschán, KA = Attila Kovács, KT = Tibor Kovács, LG = Gergely Lunk, MD = Dávid Murányi, MG = Gábor Magos, PD = Dániel Pifkó, PB = Balázs Pintér, PG = Gellért Puskás, PV = Vladimír Pešić, SB = Barnabás Sárospataki, SP = Pertti Sevola, SD = Dávid Schmidt, UL = László Urbán; UZs = Zsolt Ujvári. *Depositories:* Hungarian Natural History Museum, Budapest = (HNHM), Mátra Museum of the Hungarian Natural History Museum, Gyöngyös = (MM).

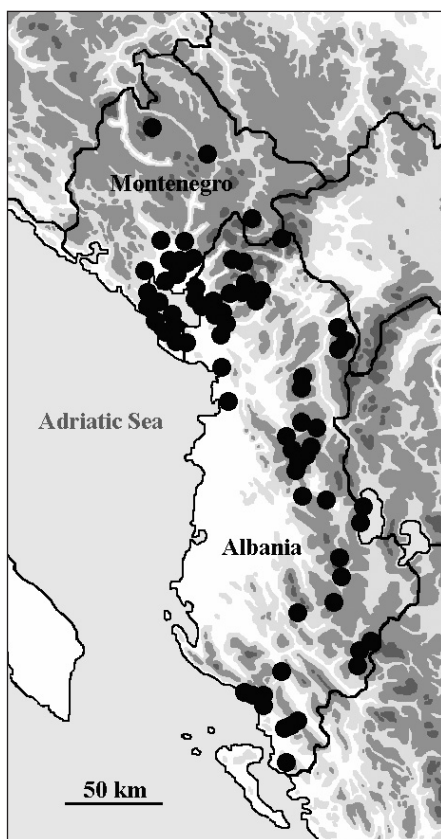


Fig. 1. Collecting sites in Montenegro and Albania

Results

CALOPTERYGIDAE Selys, 1850

Calopteryx splendens balcanica (Fudakowski, 1930) – **Montenegro**, Podgorica municipality, Gornji Mileš, Rogamsko brdo, Cijevna River, N42°23'59.7", E19°18'42.6", 65 m, 25.05.2009, KT-MG-UL, 1 E (MM: 2009-49) – Bar municipality, Rumija Mts, Vukići, Kamenički most, Medurečka Stream, N42°01'22.8", E19°13'08.5", 205 m, 26.05.2009, KT-MG-UL, 1 ♂ (MM: 2009-53). **Albania**, Shkodër district, Bajzë, Syri i Hurdan spring lakes near Shkodër Lakes, N42°16.299', E19°23.941', 10 m, 17.06.2012, FZ-KT-MD, 1 ♂ observed – Shkodër district, Omarë, spring fed lake and its outlet W of the village, N42°09.226', E19°27.827', 10 m, 17.06.2012, FZ-KT-MD, 3 ♂ (HNHM: 2012/27), 1 ♂, 1 ♀ (MM: 2012-96) – Shkodër district, Mes, Kir River at Mesi Bridge, N42°06.874' E19°34.483', 50m, 23.05.2010, FZ-MD-UZs, 1 ♂ (HNHM: 2010/43) – Lezhë district, Balldren, Drin River beneath the village, N41°47.855', E19°38.014', 5 m, 19.06.2012, FZ-KT-MD, 2 ♂, 1 ♀ (HNHM: 2012/43) –

Librazhd district, Qukës Shkumbin, karst sidespring of Shkumbin River at the quarry, N41°05.786', E20°26.551', 380 m, 22.06.2012, FZ-KT-MD, several ♂♂ and ♀♀ observed. Females caught and observed at Omarë spring lake are androchrome, while all females at the Drin River were normal coloured. At Qukës Shkumbin we observed both forms. The small sized male from the Kir River seems to be intermediate towards *C. splendens splendens*, having less extended blue on the wings. Subspecific identity of the exuviae found at the Cijevna River are questionable.

Calopteryx virgo festiva (Brullé, 1832) – **Montenegro**, Podgorica municipality, Gornji Mileš, Rogamsko brdo, Cijevna River, N42°23'59.7", E19°18'42.6", 65 m, 25.05.2009, KT-MG-UL, 1 E (MM: 2009-49) – Bar municipality, Rumija Mts, Godinje, macchia brook at the village, N42°13.245', E19°06.705', 30 m, FZ-KaT-KT-MD-PV, 1 ♂ (HNHM: 2012/19) – Bar municipality, Rumija Mts, Stari Bar, M. Mikulići, Rikavac, N42°06'16.7", E19°08'55.8", 320 m, 28.05.2009, KT-MG-UL, 1 ♂ (MM: 2009-59). **Albania**, Tropojë district, Palc, Kapoon Brook on the right bank of Koman Lake, N42°15.912', E19°55.075', 210 m, 18.06.2012, FZ-KT-MD, some ♂♂ observed – Shkodër district, Toplanë, right sidebrook of Koman Lake, N42°12.684', E19°53.704', 180 m, 18.06.2012, FZ-KT-MD, some ♂♂ and ♀♀ observed – Shkodër district, Prokletije Mts, Mollë, Maljag Stream on the right bank of Koman Lake, N42°11.673', E19°49.063', 185 m, 18.06.2012, FZ-KT-MD, 1 E (MM: 2012-100), several ♂♂ and ♀♀ observed – Shkodër district, Rrash, Vrak Spring and its outlet stream at the village, N42°08.675', E19°32.723', 45 m, 19.06.2012, FZ-KT-MD, several ♂♂ and ♀♀ observed – Shkodër district, Vau i Dejës, spring brook in the city, N42°00.472', E19°38.615', 35 m, 17.06.2012, FZ-KT-MD, 1 L (HNHM: 2012/29) – Librazhd district, Mirakë, Shkumbin River at Kamarë Bridge, N41°09.806', E20°13.803', 190 m, 22.06.2012, FZ-KT-MD, some ♂♂ and ♀♀ observed – Sarandë district, Çikë Mts, Borsh, Ixuur Spring in the village, N40°03.686' E19°51.462', 105 m, 12.03.2008, CSz-MD, 1 L (HNHM: 2008/16).

Subspecific identity of larvae and exuviae can be presumed on the basis of the range of *C. virgo festiva*, covering all the territory of Albania and Montenegro.

LESTIDAE Calvert, 1901

Lestes dryas Kirby, 1890 – **Albania**, Bulqizë district, Çermenikë Mts, Ballenjë, marshy puddle beneath the settlement, N41°22.570', E20°15.516', 1395 m, 21.06.2012, FZ-KT-MD, 2 ♂, 2 ♀ (HNHM: 2012/57) – Korçë district, Vallamarë Mts, alpine lake on the N slope of a mountain S of Mt. Vallamarë, N40°46.335' E20°28.063', 2025 m, 16.08.2007, BZ-PD, 1 ♀ (HNHM: 2007/14).

The female from the Vallamarë Mts was reported as the first occurrence of *L. dryas* in Albania (MURÁNYI 2010). However, details were not included in the abstract of that presentation, so we report it herein again, together with a further new locality.

Lestes parvidens Artobolevskii, 1929 – **Albania**, Shkodër district, Prokletije Mts, Theth, Shalë River beneath the village, N42°23.138', E19°46.845', 715 m, 09.10.2012, JP-KT-MD-PG, 1 ♀ (HNHM: 2012/18).

Lestes viridis/parvidens – **Albania**, Shkodër district, Vau i Dejës, brook in mixed macchia along the road to Koman, NE of the city, N42°01.013', E19°39.636', 115 m, 17.06.2012, FZ-KT-MD, 3 L (MM: 2012-98).

As larvae of these two species are not sufficiently known, we cannot identify our larvae to species. However, data can be informative to a further check for the imagos.

PLATYCNEMIDIDAE Tillyard, 1917

Platycnemis pennipes nitidula (Brullé, 1832) – **Montenegro**, Bar municipality, Virpazar, Skadar Lake at the port, N42°14.793', E19°05.524', 10 m, 16.06.2012, FZ-KaT-KT-MD-PV, 1 L (HNHM: 2012/18) – Ulcinj municipality, Fraskanjel, Bojana River, N41°58'07.6'', E19°23'03.7'', 10 m, 27.05.2009, KT-MG-UL, 3 L (MM: 2009-56). **Albania**, Tropojë district, Pac, Pac Stream in the village, N42°17.846', E20°12.434', 555 m, 03.06.2009, BZ-LG-PD-SD, 2 ♂, 1 ♀ (HNHM: 2009/533) – Malësi e Madhe district, Bajzë, Syri i Hurdan spring lakes near Shkodër Lake, N42°16.299', E19°23.941', 10 m, 17.06.2012, FZ-KT-MD, 1 L (MM: 2012-95) – Shkodër district, Omarë, spring fed lake and its outlet W of the village, N42°09.226', E19°27.827', 10 m, 17.06.2012, FZ-KT-MD, several ♂♂ and ♀♀ observed – Shkodër district, Vau i Dejës, brook in mixed macchia along the road to Koman, NE of the city, N42°01.013', E19°39.636', 115 m, 17.06.2012, FZ-KT-MD, 1 ♀ (HNHM: 2012/30) – Shkodër district, Shpatar, small lakes W of the village, N42°00.766', E19°34.656', 15 m, 17.06.2012, FZ-KT-MD, some ♂♂ and ♀♀ observed – Kukës district, Novoselë, open stream N of the village, N41°59.056', E20°34.113', 1220 m, 24.06.2007, DL-EZ-FZ-HA-MD, 3 ♀ (HNHM: 2007/107) – Dibër district, Lurë area, Fushë Lurë, stream at the lumber-yard,



Figs 2–5. 2 = *Platycnemis pennipes nitidula* (Brullé, 1832) male from the Drin River at Balldren; 3 = same, female; 4–5 = *Gomphus schneiderii* (Sélys-Longchamps, 1850) male from the Shkodër Lake at Bajzë

N41°48.567', E20°13.492', 1055 m, 29.06.2007, DL-EZ-FZ-HA-MD, 1 ♂ (HNHM: 2007/150) – Lezhë district, Balldren, Drin River beneath the village, N41°47.855', E19°38.014', 5 m, 19.06.2012, FZ-KT-MD, 3 ♂ (HNHM: 2012/43).

Subspecific identity of larvae can be presumed on the basis of the range of *P. pennipes nitidula*; the nominotypical subspecies is known only from the NE of Montenegro in the area studied. Short black markings on tibiae, characteristic for *P. pennipes nitidula*, conspicuous on all of our imagos (Figs 2–3).

COENAGRIONIDAE Kennedy, 1920

Pyrrhosoma elisabethae Schmidt, 1948 – **Albania**, Delvinë district, Gjerë Mts, Muzinë, Syri i Kaltër, sidespring and its slow outlet to the main stream SW of the village, N39°55.286', E20°11.330', 155 m, 13.10.2013, JP-KT-MD-PG, 2 L.

The two young larvae are from the classical and still single Albanian locality of the species. We keep them alive in the HNHM to obtain exuviae of larval stages.

Pyrrhosoma nymphula (Sulzer, 1776) – **Albania**, Kukës district, Lojme, stream S of the village, N41°59.200', E20°31.715', 900 m, 24.06.2007, DL-EZ-FZ-HA-MD, 1 ♀ (HNHM: 2007/106) – Bulqizë district, Çermenikë Mts, open brook beneath Mt. Kaptinë, N41°23.212', E20°17.506', 1610 m, 21.06.2012, FZ-KT-MD, 1 ♂, 1 ♀ (HNHM: 2012/59), 2 ♂, 2 ♀ (MM: 2012-115) – Mat district, Gropë Mts, small, artificial pond N of Shtyllë Pass, N41°22.636', E20°05.173', 1475 m, 20.06.2012, FZ-KT-MD, 2 ♂, 1 ♀ (HNHM: 2012/50a), 1 ♂ (MM: 2012-109a) – Skrapar district, Ostrovicë Mts, lake and its outlet brook 3 km S of village Faqekuq, N40°32'18.6", E20°24'20.8", 1730 m, 29.05.2013, JP-KT-MG-PG, 1 L (MM: 2013-30).

Females caught and observed belong to the forma typica and forma fulvipes, but intermediates were also found. The larva from Ostrovicë Mts was identified on the basis of the recent key in BROCHARD & VAN DER PLOEG (2013).

Erythromma viridulum (Charpentier, 1840) – **Montenegro**, Ulcinj municipality, Šas, reedy shore of Šasko Lake at a restaurant, N41°58.607', E19°20.321', 5 m, 16.06.2012, FZ-KT-MD, 1 ♂ (HNHM: 2012/22). **Albania**, Shkodër district, Omarë, spring fed lake and its outlet W of the village, N42°09.226', E19°27.827', 10 m, 17.06.2012, FZ-KT-MD, some ♂♂ and ♀♀ observed – Shkodër district, Shpatar, small lakes W of the village, N42°00.766', E19°34.656', 15 m, 17.06.2012, FZ-KT-MD, some ♂♂ and ♀♀ observed – Kurbin district, Laç, channel along highway SH1, SW of the city, N41°36.727', E19°40.106', 5 m, 19.06.2012, FZ-KT-MD, 1 ♂ (HNHM: 2012/45).

Coenagrion ornatum (Sélys, 1850) – **Albania**, Shkodër district, Vau i Dejës, spring brook in the city, N42°00.472', E19°38.615', 35 m, 17.06.2012, FZ-KT-MD, 1 ♂ (MM: 2012-97) – Kukës district, Turaj, open stream along the Novoselë–Kolesjan road, NE of the village, N41°57.222', E20°34.160', 1430 m, 24.06.2007, DL-EZ-FZ-HA-MD, 3 ♂ 3 ♀ (HNHM: 2007/109) – Dibër district, Lurë area, Fushë Lurë, stream at the lumber-yard, N41°48.567', E20°13.492', 1055 m, 29.06.2007, DL-EZ-FZ-HA-MD, 1 ♀ (HNHM: 2007/150) – Dibër district, Kreshtës Mts, brook on serpentine near Balgjajt Lake, 31.05.2008, N41°34.416', E20°13.055', 1805 m, 31.05.2008, BZ-PD-PB, 1 ♀ (HNHM: 2008/7b) – Kolonjë district, Grammos Mts, Radanj, open seeps and Mergimtori Spring at Çezma Has, N40°12.184', E20°38.270', 1085 m, 13.10.2012, JP-KT-MD-PG, 1 L (MM: 2012-190).

Coenagrion puella (Linnaeus, 1758) – **Albania**, Dibër district, Lurë area, Fushë Lurë, small bog beneath the lakes, N41°47.595', E20°12.308', 1585 m, 20.05.2010, FZ-MD-Uzs, 8 L (HNHM: 2010/26) – Mat district, Gropë Mts, small, artificial pond N of Shtyllë Pass, N41°22.636', E20°05.173', 1475 m, 20.06.2012, FZ-KT-MD, 1 ♂, 1 ♀ (HNHM: 2012/50a) – Bulqizë district, Çermenikë Mts, Ballenjë, marshy puddle beneath the settlement, N41°22.570', E20°15.516', 1395 m, 21.06.2012, FZ-KT-MD, 3 ♂ (HNHM: 2012/57) – Tiranë district, Gropë Mts, Bizë, open stream W of the settlement, N41°20.096', E20°10.003', 1265 m, 20.06.2012, FZ-KT-MD, 1 L (HNHM: 2012/54).

Enallagma cyathigerum (Charpentier, 1840) – **Montenegro**, Žabljak municipality, Durmitor Mts, Crno Jezero, Mlinski Stream, N43°08.945', E19°05.697', 1440 m, 14.08.2004, MD, 2 ♂, 1 ♀ (HNHM: 2004/M16). **Albania**, Tiranë district, Gropë Mts, Shëngjergj, rocky grassland along the Klos–Elbasan road, S of the village, N41°21.091', E20°06.974', 1390 m, 30.06.2007, DL-EZ-FZ-HA-MD, 1 ♂ (HNHM: 2007/161) – Pogradec district, Lin, Ohrid Lake in the village, N41°03.982', E20°38.613', 730 m, 16.07.2010, MD, 1 ♂, 1 ♀ (HNHM: 2010/2/13) – Pogradec district, Pishkupa, Ohrid Lake at Hotel Leon, N41°01.152', E20°38.196', 730 m, 16.07.2013, MD, 1 ♂ (HNHM: 2010/2/14).

Ischnura elegans elegans (Vander Linden, 1820) – **Montenegro**, Žabljak municipality, Durmitor Mts, Crno Jezero, Mlinski Stream, N43°08.945', E19°05.697', 1440 m, 14.08.2004, MD, 2 ♂, 1 ♀ (HNHM: 2004/M16) – Podgorica municipality, Vranjina, Morača River E of the village, N42°16.618', E19°08.810', 10 m, 08.08.2004, MD, 2 ♂ (HNHM: 2004/M4). **Albania**, Malësi e Madhe district, Bajzë, Syri i Sheganit Spring by the Shkodër Lake, N42°16.360', E19°23.757', 15 m, 17.06.2012, FZ-KT-MD, 1 ♂, 1 ♀, 2 L (HNHM: 2012/24) – Shkodër district, Omarë, spring fed lake and its outlet W of the village, N42°09.226', E19°27.827', 10 m, 17.06.2012, FZ-KT-MD, 1 L (HNHM: 2012/27) – Shkodër district, Vau i Dejës, brook in mixed macchia along the road to Koman, NE of the city, N42°01.013', E19°39.636', 115 m, 17.06.2012, FZ-KT-MD, 3 L (HNHM: 2012/30) – Shkodër district, Shpatar, small lakes W of the village, N42°00.766', E19°34.656', 15 m, 17.06.2012, FZ-KT-MD, 1 ♂ (HNHM: 2012/28) – Lezhë district, Balldren, Drin River beneath the village, N41°47.855', E19°38.014', 5 m, 19.06.2012, FZ-KT-MD, 2 ♂ (HNHM: 2012/43) – Bulqizë district, Çermenikë Mts, Ballenjë, marshy puddle beneath the settlement, N41°22.570', E20°15.516', 1395 m, 21.06.2012, FZ-KT-MD, several ♂♂ and ♀♀ observed – Vlorë district, Qeparo, seaside springs and brackish marsh W of the village, N40°03.134', E19°48.756', 5 m, 12.10.2013, JP-KT-MD-PG, 1 ♂, 1 ♀ (HNHM: 2013/36).

All of the male imagos seem to belong to the nominotypical subspecies, while DUMONT et al. (1993) published numerous Albanian data of both *I. elegans elegans* and *I. elegans ebneri* Schmidt, 1938.

Ischnura pumilio (Charpentier, 1825) – **Albania**, Tropojë district, Prokletije Mts, Dobërdol, small tarn below Dash Lake, N42°32.008', E20°04.653', 2080 m, 09.07.2011, BZ-KA-PG-SB, 2 ♂, 1 ♀ (HNHM: 2011/23) – Bulqizë district, Çermenikë Mts, Ballenjë, marshy puddle beneath the settlement, N41°22.570', E20°15.516', 1395 m, 21.06.2012, FZ-KT-MD, several ♂♂ and ♀♀ observed.

Ceriatrigon tenellum (Villers, 1789) – **Albania**, Shkodër district, Vau i Dejës, brook in mixed macchia along the road to Koman, NE of the city, N42°01.013', E19°39.636', 115 m, 17.06.2012, FZ-KT-MD, 2 ♂, 2 ♀ (HNHM: 2012/30), 3 ♀, 13 L (MM: 2012-98).

Eleven of the collected larvae are nearly emerging, while two larvae are just half aged, indicating that the species has two years life cycle in the brook. Females belong to the forma typica and forma erythrogastrum.

AESHNIDAE Rambur, 1842

Aeshna cyanea (Müller, 1764) – **Albania**, Tropojë district, Prokletije Mts, Dobërdol, small tarn below Dash Lake, N42°32.008', E20°04.653', 2080 m, 09.07.2011, BZ-KA-PG-SB, 2 ♂, 1 ♀ (HNHM: 2011/23) – Shkodër district, Prokletije Mts, shallow alpine lake at Terthorë Pass, N42°23.389', E19°43.535', 1690 m, 11.07.2010, MD, 2 L (HNHM: 2010/2/3).

Aeshna isocetes isocetes (Müller, 1767) – **Montenegro**, Podgorica municipality, Podgorica, petrol station at the edge of the city, N42°25.103', E19°16.453', 55 m, 28.05.2004, MD, 1 ♂ (HNHM: 2004/M1). **Albania**, Shkodër district, Omarë, spring fed lake and its outlet W of the village, N42°09.226', E19°27.827', 10 m, 17.06.2012, FZ-KT-MD, some specimens observed – Shkodër district, Shpatar, small lakes W of the village, N42°00.766', E19°34.656', 15 m, 17.06.2012, FZ-KT-MD, 1 ♂ observed.

Anax imperator Leach, 1815 – **Albania**, Shkodër district, Vau i Dejës, brook in mixed macchia along the road to Koman, NE of the city, N42°01.013', E19°39.636', 115 m, 17.06.2012, FZ-KT-MD, 1 E (HNHM: 2012/30) – Shkodër district, Shpatar, small lakes W of the village, N42°00.766', E19°34.656', 15 m, 17.06.2012, FZ-KT-MD, some ♂♂ and ♀♀ observed – Mat district, Gropë Mts, small, artificial pond N of Shtyllë Pass, N41°22.636', E20°05.173', 1475 m, 20.06.2012, FZ-KT-MD, 1 ♀ (HNHM: 2012/50a).

Anax parthenope (Sélys-Longchamps, 1839) – **Albania**, Malësi e Madhe district, Bajzë, Syri i Hurdan spring lakes near Shkodër Lake, N42°16.299', E19°23.941', 10 m, 17.06.2012, FZ-KT-MD, 2 ♂ observed.

Caliaeschna microstigma (Schneider, 1845) – **Montenegro**, Bar municipality, Rumija Mts, Godinje, macchia brook at the village, N42°13.245', E19°06.705', 30 m, FZ-KaT-KT-MD-PV, 1 ♂ (HNHM: 2012/19) – Bar municipality, Rumija Mts, Stari Bar, M. Mikulići, Rikavac, N42°06'16.7", E19°08'55.8", 320 m, 28.05.2009, KT-MG-UL, 1 ♂ observed – Bar municipality, Rumija Mts, Stari Bar, Špilja, Rikavac, N42°06'01.6", E19°08'30.8", 180 m, 26.05.2009, KT-MG-UL, 1 ♂ (MM: 2009-55) – Ulcinj municipality, Rumija Mts, Gornji Kosići, Midanska Stream, N42°02'28.0", E19°15'46.9", 413 m, 27.05.2009, KT-MG-UL, 1 ♂ observed. **Albania**, Tropojë district, Palc, forest stream on the right bank of Koman Lake, N42°15.496', E19°54.599', 215 m, 18.06.2012, FZ-KT-MD, some ♂♂ observed – Shkodër district, Prokletije Mts, Mollë, Maljag Stream on the right bank of Koman Lake, N42°11.673', E19°49.063', 185 m, 18.06.2012, FZ-KT-MD, some ♂♂ and ♀♀ observed – Shkodër district, Vau i Dejës, spring brook in the city, N42°00.472', E19°38.615', 35 m, 17.06.2012, FZ-KT-MD, 1 ♀ (MM: 2012-97) – Shkodër district, Vau i Dejës, brook in mixed macchia along the road to Koman, NE of the city, N42°01.013', E19°39.636', 115 m, 17.06.2012, FZ-KT-MD, 1 ♂ (MM: 2012-98) – Librazhd district, Qukës Shkumbin, karst sidespring of Shkumbin River at the quarry, N41°05.786', E20°26.551', 380 m, 22.06.2012, FZ-KT-MD, 1 ♀ (HNHM: 2012/66).

Further faunistical data concerning larvae and exuviae are enumerated in a separate paper dealing with the Balkan distribution and biology of the species (KOVÁCS & MURÁNYI 2013).

Gomphus schneiderii (Sélys-Longchamps, 1850) – **Albania**, Malësi e Madhe district, Bajzë, lakeshore and karst spring by the Shkodër Lake, 10 m, N42°16.636', E19°23.579', 17.06.2012, FZ-KT-MD, 1 ♂ (HNHM: 2012/26) – Shkodër district, Omarë, spring fed lake and its outlet W of the village, N42°09.226', E19°27.827', 10 m, 17.06.2012, FZ-KT-MD, 1 ♂ (HNHM: 2012/27), 1 L (MM: 2012-96).

The male caught at Bajzë displays some intermediate coloration features towards *G. vulgatissimus* (Linnaeus, 1758), its habitus is shown on Figs 4–5.

Gomphus schneiderii/vulgatissimus – **Montenegro**, Rumija Mts., Fraskanjel, Bojana River, N41°58'07.6", E19°23'03.7", 10 m, 27.05.2009, KT-MG-UL, 1 L, 1 E (MM: 2009-56). **Albania**, Malësi e Madhe district, Bajzë, Syri i Hurdan spring lakes near Shkodër Lake, N42°16.299', E19°23.941', 10 m, 17.06.2012, FZ-KT-MD, 1 L (MM: 2012-95) – Shkodër district, Prokletije Mts, Mollë, Shalë River at its influence to Koman Lake, N42°11.982', E19°49.121', 180 m, 18.06.2012, FZ-KT-MD, 1 L (HNHM: 2012/31) – Lezhë district, Balldren, Drin River beneath the village, N41°47.855', E19°38.014', 5 m, 19.06.2012, FZ-KT-MD, 1 ♂ observed.

We cannot identify our larvae and exuviae with certainty, just like the single imago that was observed at the Drin River. However, it is worth to publish the localities in order to further check of those populations.

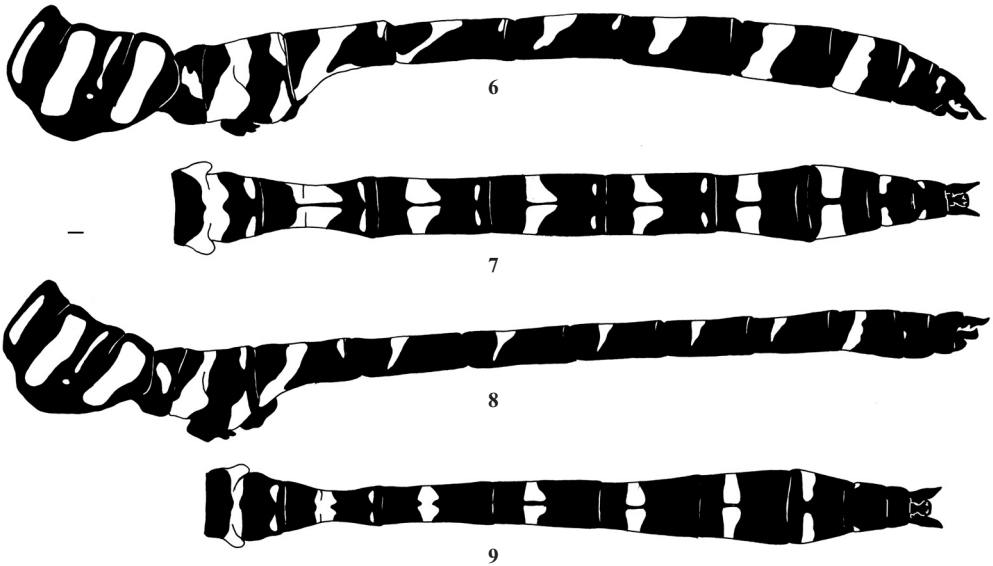
Onychogomphus forcipatus forcipatus (Linnaeus, 1758) – **Montenegro**, Žabljak municipality, Durmitor Mts, Crno Jezero, Mlinski Stream, N43°08.945', E19°05.697', 1440 m, 14.08.2004, MD, 1 ♀ (HNHM: 2004/M16) – Podgorica municipality, Zlatica, Morača River, 42°28'40.2", 19°18'19.8", 45 m, 17.04.2010, KT-MG-UL, 1 L (MM: 2010-40) – Podgorica municipality, Dinoša, Cijevna River, N42°24'24.6", E19°20'56.1", 80 m, 13.04.2010, KT-MG-UL, 2 L observed – Podgorica municipality, between Gurec and Prifta, Cijevna River, 42°23'46.5", 19°22'47.8", 99 m, 13.04.2010, KT-MG-UL, 1 L observed – Bar municipality, Rumija Mts, Stari Bar, M. Mikulići, Rikavac, N42°06'16.7", E19°08'55.8", 320 m, 28.05.2009, KT-MG-UL, 1 ♂ (MM: 2009-59) – Bar municipality, Rumija Mts, Vukići, Kamenički most, Medurečka Stream, N42°01'22.8", E19°13'08.5", 205 m, 26.05.2009, KT-MG-UL, 1 E (MM: 2009-53). **Albania**, Librazhd district, Mirakë, Shkumbin River at Kamarë Bridge, N41°09.806', E20°13.803', 190 m, 22.06.2012, FZ-KT-MD, 2 ♂ observed – Librazhd district, Qukës Shkumbin, karst sidespring of Shkumbin River at the quarry, N41°05.786', E20°26.551', 380 m, 22.06.2012, FZ-KT-MD, 1 E (HNHM: 2012/66) – Korçë district, Gjinikas, sidespring of the Devoll River NE of the village, N40°41.521' E20°30.009', 640 m, 16.10.2013, JP-KT-MD-PG, 1 L (MM: 2013-122) – Skrapar district, Bogovë, Osum River and its sidestream N of the village, N40°34.742', E20°08.075', 165 m, 10.03.2008, CSz-MD, 1 L (HNHM: 2008/9) – Sarandë district, Çikë Mts, Borsh, Borsh River N of the village, N40°03.951', E19°50.892', 35 m, 12.03.2008, CSz-MD, 3 L (HNHM: 2008/18) – Sarandë district, Shkallë, Pavillë River and its bank NW of the village, N39°41.607' E20°06.992', 20 m, 12.10.2013, JP-KT-MD-PG, 1 L (HNHM: 2013/38), 1 L (MM: 2013-108).

Lindenia tetraphylla (Vander Linden, 1825) – **Montenegro**, Bar municipality, Rumija Mts, Bes, Skadar Lake, N42°08'57.8", E19°13'57.9", 7 m, 29.05.2009, KT-MG-UL, 1 L, 8 E (MM: 2009-63) – Podgorica municipality, Gornji Mileš, Rogamsko brdo, N42°23'59.3",

E19°18'47.4", 70 m, 25.05.2009, KT-MG-UL, 1 ♂ (MM: 2009-49.a). **Albania**, Malësi e Madhe district, Bajzë, lakeshore and karst spring by the Shkodër Lake, 10 m, N42°16.636', E19°23.579', 17.06.2012, FZ-KT-MD, 1 ♂, 1 ♀ (HNHM: 2012/26) – Shkodër district, Rrash, Vrak Spring and its outlet stream at the village, N42°08.675', E19°32.723', 45 m, 19.06.2012, FZ-KT-MD, 2 ♀ observed.

CORDULEGASTRIDAE Calvert, 1893

Cordulegaster bidentata Sélys-Longchamps, 1843 – **Montenegro**, Mojkovac municipality, Sinjajevina Mts, Gornja Polja, Zoljski Ljevak Stream above the village, N42°57.808', E19°31.597', 880 m, 06.05.2003, JP-KT-SP, 1 L (MM: 2003-54) – Bar municipality, Rumija Mts, Godinje, macchia brook at the village, N42°13.245', E19°06.705', 30 m, FZ-KaT-KT-MD-PV, 1 ♀ (HNHM: 2012/19) – Bar municipality, Rumija Mts, Sutorman, Basa Spring, N42°09'25.6", E19°06'06.3", 770 m, 26.05.2013, JP-KT-MG-PG, 1 ♀, 1 E (MM: 2013-16) – Bar municipality, Rumija Mts, Stari Bar, M. Mikulići, Rikavac, N42°06'16.7", E19°08'55.8",



Figs 6–9. *Cordulegaster bidentata* (Sélys-Longchamps, 1843) males from Albania: 6–7 = from the outlet of Syri i Kaltër Spring, 8–9 = from a spring outlet at Lojme; scale 2 mm

320 m, 28.05.2009, 2 E, KT-MG-UL (MM: 2009-59); 09.11.2011, KT-MG, 2 E (MM: 2011-243) – Bar municipality, Rumija Mts, Stari Bar, Špilja, Rikavac, N42°06'01.6", E19°08'30.8", 180 m, 19.05.2004, JP-KT-PV-SP, 2 L (MM: 2004-54) – Bar municipality, Rumija Mts, 1 km above Stari Bar, towards M. Mikulići, streams and their gallery, N42°06.026', E19°08.514', 180 m, 14.10.2008, DL-FZ-KJ-MD, 1 L (HNHM: 2008/84) – Ulcinj municipality, Rumija Mts, Gornji Kosići, Midanska Stream, N42°02'28.0", E19°15'46.9", 413 m, 27.05.2009, KT-MG-UL, 1 L (MM: 2009-57). **Albania**, Tropojë district, Palc, forest stream on the right bank of Koman Lake, N42°15.496', E19°54.599', 215 m, 18.06.2012, FZ-KT-MD, 2 E (HNHM:

2012/38) – Shkodër district, Prokletije Mts, Kir, forest brook E of the village, N42°14.422', E19°43.682', 990 m, 23.05.2010, FZ-MD-UZs, 1 ♀ (HNHM: 2010/51) – Shkodër district, Toplanë, right sidebrook of Koman Lake, N42°12.684', E19°53.704', 180 m, 18.06.2012, FZ-KT-MD, 1 ♂ observed – Shkodër district, Prokletije Mts, Mollë, Maljag Stream on the right bank of Koman Lake, N42°11.673', E19°49.063', 185 m, 18.06.2012, FZ-KT-MD, 1 E (MM: 2012-100) – Kukës district, Lojme, spring outlet in a secondary alder forest, N of the village, N41°59.898', E20°31.393', 815 m, 24.06.2007, DL-EZ-FZ-HA-MD, 3 ♂, 1 L, 2 E (HNHM: 2007/105) – Bulqizë district, Lopë Mts, Valikardhë, Zalli i Qytetit River N of the village, 30.06.2007 (2007/155), N41°30.593', E20°18.908', 595 m, 30.06.2007, DL-EZ-FZ-HA-MD, 1 ♂, (HNHM: 2007/155) – Bulqizë district, Çermenikë Mts, open brook beneath Mt. Kaptinë, N41°23.212', E20°17.506', 1610 m, 21.06.2012, FZ-KT-MD, 1 ♀, 1 L (HNHM: 2012/59) – Bulqizë district, Çermenikë Mts, brooks in open forest beneath Mt. Kaptinë, N41°23.199', E20°17.338', 1600 m, 27.05.2013, JP-KT-MG-PG, 1 L (MM: 2013-19) – Tiranë district, Gropë Mts, Shëngjergj, forest seep along the road to Elbasan, E of the village, N41°19.875', E20°08.483', 1355 m, 11.10.2012, JP-KT-MD-PG, 1 L (MM: 2012-182) – Kolonjë district, Grammos Mts, Rehovë, brook at forest edge, E of the village, N40°20.111' E20°43.467', 1445 m, 15.10.2013, JP-KT-MD-PG, 1 L (HNHM: 2013/58) – Kolonjë district, Barmash, large spring and outlet in tall rush stands, NE of the village, N40°17.034' E20°37.814', 955 m, 15.10.2013, JP-KT-MD-PG, 1 L (MM: 2013-119) – Tepelenë district, Tepelenë, Uji i Ftohtë, karst springs and forest, N40°15.009', E20°03.876', 165 m, 13.10.2012, JP-KT-MD-PG, 1 L (MM: 2012-186) – Delvinë district, Gjerë Mts, Muzinë, Syri i Kaltër, sidespring and its slow outlet to the main stream SW of the village, N39°55.286', E20°11.330', 155 m, 13.10.2013, JP-KT-MD-PG, 1 L (HNHM: 2013/42) – Delvinë district, Gjerë Mts, Bistricë, forest karst spring E of the village, N39°55.125' E20°08.799', 105 m, 13.10.2013, JP-KT-MD-PG, 1 L (HNHM: 2013/41), 1 L (MM: 2013-109).

As already reported by DUMONT et al. (1993) and MURÁNYI (2007), the southern Albanian specimens have more extensive yellow markings (Figs 6–7) than the usual form (Figs 8–9). Unfortunately, our specimens were not suitable for the recent molecular studies (FROUFE et al. 2013). It is worth to mention that a last-year larva caught in October 2008 above Stari Bar, Montenegro, was found beneath a large stone some 10 meters above the stream. The gorge is covered with dry macchia vegetation, and the larva possibly lived in a temporary seep that was drought since months. This peculiar case contradicts the suggestion of DEKNJIF et al. (2013) that *Cordulegaster* larvae can live only in permanent waterflows.

CORDULIIDAE Selys, 1850

Cordulia aenea (Linnaeus, 1758) – **Albania**, Shkodër district, Prokletije Mts, shallow alpine lake at Terthorë Pass, N42°23.389', E19°43.535', 1690 m, 11.07.2010, MD, 1 E (HNHM: 2010/2/3) – Dibër district, Kreshtës Mts, brook on serpentine near Balgjajt Lake, N41°34.416', E20°13.055', 1805 m, 31.05.2008, BZ-PD-PB, 5 ♂, 2 ♀ (HNHM: 2008/7b) – Mat district, Gropë Mts, small, artificial pond N of Shtyllë Pass, N41°22.636', E20°05.173', 1475 m, 20.06.2012, FZ-KT-MD, 2 ♂ (HNHM: 2012/50a).

Somatochlora meridionalis Nielsen, 1935 – **Montenegro**, Cetinje municipality, Rijeka Crnojevica, old stillwater channel above the village, N42°21.297', E19°01.122', 15 m, FZ-KaT-KT-MD-PV, 1 ♂ (HNHM: 2012/11) – Ulcinj municipality, Rumija Mts, brook above

Donji Rastiš, N42°01'55.4", E19°19'39.5", 26.05.2009, KT-MG-UL, 1 ♀ (MM: 2009-52) – Ulcinj municipality, Rumija Mts, brook between Draginje and Donji Rastiš, N42°01'41.0", E19°20'45.0", 26.05.2009, KT-MG-UL, 1 ♂, 1 L, 2 E (MM: 2009-51). **Albania**, Bulqizë district, Çermenikë Mts, open brook beneath Mt. Kaptinë, N41°23.212', E20°17.506', 1610 m, 21.06.2012, FZ-KT-MD, 1 ♀, 1 E (HNHM: 2012/59), 1 ♂, 1 ♀, 3 E (MM: 2012-115).

LIBELLULIDAE Rambur, 1842

Libellula quadrimaculata Linnaeus, 1758 – **Montenegro**, Žabljak municipality, Durmitor Mts, Crno Jezero, Mlinski Stream, N43°08.945', E19°05.697', 1440 m, 14.08.2004, MD, 1 ♀ (HNHM: 2004/M16). **Albania**, Shkodër district, Prokletije Mts, shallow alpine lake at Terthorë Pass, N42°23.389', E19°43.535', 1690 m, 11.07.2010, MD, 1 ♂, 1 ♀♂, 1 ♀, 5 E (HNHM: 2010/2/3) – Bulqizë district, Çermenikë Mts, Ballenjë, marshy puddle beneath the settlement, N41°22.570', E20°15.516', 1395 m, 21.06.2012, FZ-KT-MD, several ♂♂ and ♀♀ observed.

Libellula depressa Linnaeus, 1758 – **Montenegro**, Bar municipality, Rumija Mts, Livari, pond, N42°07'41.7", E19°12'52.4", 29.05.2009, 5 E, KT-MG-UL (MM: 2009-62) – Andrijevisa municipality, Visitor Mts, Murino, seep in a mixed beech forest, SW of the city, N42°37.957', E19°50.419', 1645 m, 12.10.2008, DL-FZ-KJ-MD, 1 L (HNHM: 2008/67). **Albania**, Shkodër district, Toplanë, right sidebrook of Koman Lake, N42°12.684', E19°53.704', 180 m, 18.06.2012, FZ-KT-MD, 1 ♂ observed – Bulqizë district, Çermenikë Mts, Ballenjë, pools of an open stream SW of the settlement, N41°21.621', E20°14.472', 1365 m, 20.06.2012, FZ-KT-MD, some ♂♂ and ♀♀ observed.

Libellula fulva Müller, 1764 – **Montenegro**, Danilovgrad municipality, Daljam, Mareza Channel below the village, N42°28.461', E19°10.799', 30 m, 16.06.2012, FZ-KaT-KT-MD-PV, 1 ♂ (HNHM: 2012/16).

Orthetrum cancellatum (Linnaeus, 1758) – **Albania**, Malësi e Madhe district, Bajzë, lakeshore and karst spring by the Shkodër Lake, 10 m, N42°16.636', E19°23.579', 17.06.2012, FZ-KT-MD, several ♂♂ and ♀♀ observed – Malësi e Madhe district, Bajzë, Syri i Sheganit Spring by the Shkodër Lake, N42°16.360', E19°23.757', 15 m, 17.06.2012, FZ-KT-MD, 3 L (HNHM: 2012/24) – Malësi e Madhe district, Bajzë, Syri i Hurdan spring lakes near Shkodër Lake, N42°16.299', E19°23.941', 10 m, 17.06.2012, FZ-KT-MD, 2 ♂, 1 ♀ observed – Shkodër district, Omarë, spring fed lake and its outlet W of the village, N42°09.226', E19°27.827', 10 m, 17.06.2012, FZ-KT-MD, several ♂♂ and ♀♀ observed – Pogradec district, Lin, Ohrid Lake in the village, N41°03.982', E20°38.613', 730 m, 16.07.2010, MD, 1 ♂ (HNHM: 2010-2/13).

Orthetrum albistylum (Sélys-Longchamps, 1848) – **Albania**, Malësi e Madhe district, Bajzë, lakeshore and karst spring by the Shkodër Lake, 10 m, N42°16.636', E19°23.579', 17.06.2012, FZ-KT-MD, several ♂♂ and ♀♀ observed.

Orthetrum brunneum (Fonscolombe, 1837) – **Montenegro**, Bar municipality, Rumija Mts, Sutorman, Brusica, marsh, 42°08'54.1" 19°07'12.1", 543 m, 19.05.2004, JP-KT-PV-SP, 1 L (MM: 2004-52.a); 09.11.2011, KT-MG, 1 L (MM: 2011-241b) – Ulcinj municipality, Rumija Mts, Gornji Kosići, Miđanska Stream, N42°02'28.0", E19°15'46.9", 413 m, 27.05.2009, KT-MG-UL, 1 ♂ observed. **Albania**, Shkodër district, Toplanë, right sidebrook of Koman Lake, N42°12.684', E19°53.704', 180 m, 18.06.2012, FZ-KT-MD, some specimens observed –

Shkodër district, Omarë, spring fed lake and its outlet W of the village, N42°09.226', E19°27.827', 10 m, 17.06.2012, FZ-KT-MD, 1 ♂ observed – Shkodër district, Rrash, Vrak Spring and its outlet stream at the village, N42°08.675', E19°32.723', 45 m, 19.06.2012, FZ-KT-MD, several specimens observed – Shkodër district, Vau i Dejës, brook in mixed macchia along the road to Koman, NE of the city, N42°01.013', E19°39.636', 115 m, 17.06.2012, FZ-KT-MD, 1 L (MM: 2012-98) – Kukës district, Turaj, open stream along the Novoselë–Kolesjan road, NE of the village, N41°57.222', E20°34.160', 1430 m, 24.06.2007, DL-EZ-FZ-HA-MD, 1 ♂ (HNHM: 2007/109) – Mat district, Fshat, Mat River at Vashë Bridge, N41°28.064', E20°06.283', 360 m, 30.06.2007, DL-EZ-FZ-HA-MD, 1 ♂ (HNHM: 2007/156).

Orthetrum coerulescens (Fabricius, 1798) – **Montenegro**, Danilovgrad municipality, Daljam, Mareza Channel below the village, N42°28.461', E19°10.799', 30 m, 16.06.2012, FZ-KaT-KT-MD-PV, 1 ♂, 1 ♀ (HNHM: 2012/16) – Bar municipality, Rumija Mts, Sutorman, Brusica, marsh, 42°08'54.1" 19°07'12.1", 543 m, 09.11.2011, KT-MG, 1 L (MM: 2011-241b). **Albania**, Shkodër district, Omarë, spring fed lake and its outlet W of the village, N42°09.226', E19°27.827', 10 m, 17.06.2012, FZ-KT-MD, some ♂♂ and ♀♀ observed – Kukës district, Turaj, open stream along the Novoselë–Kolesjan road, NE of the village, N41°57.222', E20°34.160', 1430 m, 24.06.2007, DL-EZ-FZ-HA-MD, 1 ♂, 3 ♀ (HNHM: 2007/109).

Like in the case of Montenegrin specimens reported by DEKNJIF et al. (2013), our adult specimens show intermediate characters between *O. coerulescens coerulescens* and *O. coerulescens anceps* (Schneider, 1845).

Crocothemis erythraea (Brullé, 1832) – **Montenegro**, Bar municipality, Virpazar, Tanki Rt, reedy shore of Skadar Lake, N42°15.875', E19°06.469', 10 m, 15.06.2012, FZ-KaT-KT-MD-PV, 1 ♂ (HNHM: 2012/13) – Bar municipality, Rumija Mts, Bes, Skadar Lake, N42°08'57.8", E19°13'57.9", 10 m, 29.05.2009, KT-MG-UL, 1 E (MM: 2009-63) – Bar municipality, Rumija Mts, Sutorman, Brusica, marsh, N42°08'54.1", E19°07'12.1", 545 m, 19.05.2004, JP-KT-PV-SP, 2 L, 1 E (MM: 2004-52a); 09.11.2011, KT-MG, 1 L (MM: 2011-241b) – Ulcinj municipality, Šas, reedy shore of Šasko Lake at a restaurant, N41°58.607', E19°20.321', 5 m, 16.06.2012, FZ-KT-MD, 1 L (HNHM: 2012/22). **Albania**, Malësi e Madhe district, Bajzë, lakeshore and karst spring by the Shkodër Lake, 10 m, N42°16.636', E19°23.579', 17.06.2012, FZ-KT-MD, several specimens observed – Malësi e Madhe district, Bajzë, Syri i Sheganit Spring by the Shkodër Lake, N42°16.360', E19°23.757', 15 m, 17.06.2012, FZ-KT-MD, 1 ♀ (HNHM: 2012/24).

Sympetrum striolatum (Charpentier, 1840) – **Albania**, Shkodër district, Prokletije Mts, Okol, forest edge along the road towards Terthorë Pass, 11.07.2010 (2010/2/5), N42°23.245', E19°45.493', 1510 m, 11.07.2010, MD, 1 ♀ (HNHM: 2010/2/5) – Shkodër district, Toplanë, right sidebrook of Koman Lake, N42°12.684', E19°53.704', 180 m, 18.06.2012, FZ-KT-MD, 1 ♂ (HNHM: 2012/35) – Vlorë district, Qeparo, macchia with tree spurges W of the village, N40°03.098', E19°48.046', 20 m, 12.10.2013, JP-KT-MD-PG, 1 ♀ (HNHM: 2013/35).

Sympetrum meridionale (Sélys-Longchamps, 1841) – **Albania**, Malësi e Madhe district, Bajzë, Syri i Sheganit Spring by the Shkodër Lake, N42°16.360', E19°23.757', 15 m, 17.06.2012, FZ-KT-MD, 1 L (HNHM: 2012/24).

Sympetrum flaveolum (Linnaeus, 1758) – **Albania**, Bulqizë district, Çermenikë Mts, Ballenjë, marshy puddle beneath the settlement, N41°22.570', E20°15.516', 1395 m, 21.06.2012, FZ-KT-MD, 1 L, 1 ♂ (HNHM: 2012/57).

Sympetrum sanguineum (Müller, 1764) – **Albania**, Lezhë district, Balldren, Drin River beneath the village, N41°47.855', E19°38.014', 5 m, 19.06.2012, FZ-KT-MD, 1 ♂ (HNHM: 2012/43).

Selysiothemis nigra (Vander Linden, 1825) – **Montenegro**, Ulcinj municipality, Šas, reedy shore of Šasko Lake at a restaurant, N41°58.607', E19°20.321', 5 m, 16.06.2012, FZ-KT-MD, 1 L (MM: 2012-93). **Albania**, Malësi e Madhe district, Bajzë, lakeshore and karst spring by the Shkodër Lake, 10 m, N42°16.636', E19°23.579', 17.06.2012, FZ-KT-MD, 2 ♂ observed – Malësi e Madhe district, Bajzë, Syri i Hurdan spring lakes near Shkodër Lake, N42°16.299', E19°23.941', 10 m, 17.06.2012, FZ-KT-MD, 1 ♂ observed.

Although it was reported as a frequent dragonfly at the Montenegrin part of Skadar/Shkodër Lake (DEKNJIF et al. 2013), these are the first records of the species from Albania.

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