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Research article

Type specimens of Zygaenidae in the National Museum of Natural History, Sofia (Lepidoptera)

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Abstract: This paper comprises an annotated list of the type material of Zygaenidae kept in the National Museum of Natural History at the Bulgarian Academy of Sciences in Sofia. The collection contains types of five nominal species group taxa, described by B. Alberti, A. Drenowski and O. Holik.

Keywords: Bulgaria, holotype, nomenclature, paratype, Turkey

Introduction

The National Museum of Natural History at the Bulgarian Academy of Sciences, Sofia (NMNHS) is well known as a depository of important collections of Balkan Lepidoptera, with some taxa represented by types. Currently, the collection of Lepidoptera is housed in a modern Entomology Depot. The list presented here follows ICZN recommendation (1999: 72F.4) and continues the series of catalogues on types of the rich museum holdings.

Material and methods

The collection of Zygaenidae at NMNHS contains type material of five nominal species group taxa (18 specimens), described by Burchard Alberti, Alexander Drenowski and Otto Holik.

The species group taxa names are arranged in alphabetical order. Each entry includes the name, followed by the original combination quoted from the original publication, type locality, type specimens as specified with their labels and comments about the original description, type material and current taxonomic

status of the taxon involved. Each line in the label's text is separated by a vertical line "|".

Results and discussion

antitaurica Holik, 1942

"Zygaena carniolica var. antitaurica m. var. nov." (Holik, 1942: 255). Type locality: Turkey: "Antitaurus in einer Höhe von 3300 m" (Holik, 1942: 255).

Holotype ♂ (Fig. 1) with labels: (1) handwritten (on white paper with double black frame) "Antitaurus | Hochalpin | 3300m. 1912"; (2) handwritten (on white paper with double black frame) "Zyg. carniolica | var. antitaurica | Hol | Ed. W. Siehe, Mersina."; (3) handwritten (on white paper) "det. Holik | 1940."; (3) printed (on red paper with handwritten inscriptions, here italicised) "TYPE | *carniolica* | *antitaurica* | *nova*"; (4) printed (on white paper) "NMNHS-INV-T-0344".

Paratypes 3 33 with labels: [1] printed (on white paper) "NMNHS-INV-T-0343"; [2] printed (on white paper) "NMNHS-INV-T-01183"; [3] printed (on white paper) "NMNHS-INV-T-01184"; paratypes 1 and 2

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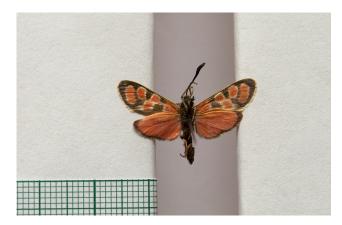


Fig. 1 "Zygaena carniolica var. antitaurica", holotype ♂ (left: upperside, right: underside).

with additional, handwritten (on white paper) "det. Holik | 1940."; all the paratypes with additional: (1) handwritten (on white paper with double black frame) "Antitaurus | Hochalpin | 3300m. 1912"; (2) handwritten (on white paper with double black frame) "Zyg. carniolica | var. antitaurica | Holik | Ed. W. Siehe, Mersina."; (3) printed (on red paper with handwritten inscriptions, here italicised) "COTYPE | carniolica | antitaurica | nova".

The original type series consisted of 4 33 "Type und Cotypen" (Holik, 1942: 256). Currently treated as a valid subspecies of *Zygaena carniolica* (Scopoli, 1763) (Hofmann & Tremewan, 1996: 114).

drenowskii Alberti, 1939

"Procris drenowskii nov. spec." (Alberti, 1939: 43). Type locality: "Graecia orient. Mont. Athos, Chalcidice" (Alberti, 1939: 46).

Paratypes 3 \circlearrowleft 2 \hookrightarrow with labels: [1 \circlearrowleft , genitalia and abdomen in a micro vial filled with glycerol] (1) printed (on white paper with handwritten inscriptions in Cyrillic, here italicised and transliterated) "Strandja pl 28 V-1-VI | Vurgari | D. Iltschew 1923"; (2) handwritten (on white paper) "26"; (3) handwritten (on red paper) "Bulgarien | Strandja pl.", on the back "B. Alberti | 1937"; (4) handwritten (on red paper) "Cotype | 3", on the back "Procris | drenowskii"; (5) printed (on white paper) "NMNHS-INV-T-0313"; (6) printed (on white paper) "Adscita statices drenowskii | (Alberti, 1939) ♂ | det. A. Nahirnić-Beshkova | 22.02.2021"; [2 (1) printed (on white paper) "Rhodopy Belovo | A.et J.Milde"; (2) handwritten (on white paper) "20"; (3) handwritten (on red paper) "Cotype | ♂ | Rhodope", on the back "Procris | drenowskii | \mathcal{E} | B. Alberti | 1937"; (4) printed (on white paper) "NMNHS-INV-T-0316"; [3 \circlearrowleft , genitalia mounted on microscopic slide labelled "Procris | drenowskii | (Insecta, Lepi- | doptera). Procris No. Bu. 7"] (1) printed (on white paper with handwrit-





Fig. 2 "*Procris drenowskii*", paratype ♀ (left: upperside, right: underside).



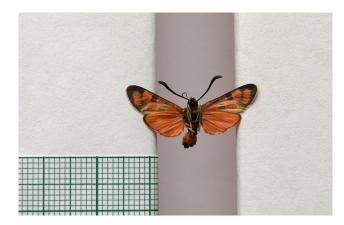


Fig. 3 "Zygaena carniolica var. hyperonobrychis", paratype ♂ (left: upperside, right: underside).

ten inscriptions, here italicised) "Pirin - Pl. 1600 m. Bnderitza [sic] 11-14.VII. | Dr Iw.Buresch. 915."; (2) handwritten (on white paper) "22"; (3) handwritten (on red paper) "Cotype | ♂ | Pirin pl.", on the back "Procris | drenowskii | B. Alberti | 1937"; (4) handwritten (on white paper) "Genital- | Präp. | No. Bu. 7"; (5) printed (on white paper) "NMNHS-INV-T-0317"; $[4 \ \]$ (1) printed (on white paper with handwritten inscriptions, here italicised and transliterated) "Centr, Rodopy Foten 22VI 924 | D. Iltchew Selcha"; (2) handwritten (on white paper) "24"; (3) handwritten (on red paper) "Cotype $| \ \ |$ Rhodope", on the back "Procris |drenowskii | B. Alberti | 1937"; (4) printed (on white paper) "NMNHS-INV-T-0314"; [5 Ω] (Fig. 2) (1) printed (on white paper with handwritten inscriptions, here italicised) "Germanski m. 2.2. | Lozen-Planina VII | Dr.I.Buresch 1914."; (2) handwritten (on white paper) "23"; (3) handwritten (on white paper) "J. statices L. \bigcirc . 4414"; (4) handwritten (on red paper) "Cotype $|\bigcirc|$ Bulgarien", on the back "Procris | drenowskii | B. Alberti | 1937"; (5) printed (on white paper) "NMNHS-INV-T-0315".

The original type series consisted of a holotype and numerous paratypes from Greece, Bulgaria, Turkey, Syria, North Macedonia (Alberti, 1939: 46). Currently treated as a different subspecies, *Adscita statices drenowskii* (Alberti, 1939) (Daniel et al., 1951: 18).

hyperonobrychis Holik, 1939

"Zyg.[aena] (Argumenia [sic] Hb.) carniolica Scop. var. hyperonobrychis m., (var. nov.)" (Holik, 1939: 200). Type locality: Bulgaria: "Varna" (Holik, 1939: 200).

Paratypes 4 \circlearrowleft , 2 \circlearrowleft with labels: [1 \circlearrowleft] (Fig. 3) printed (on white paper) "NMNHS-INV-T-01181"; [2 ी (1) handwritten (on white paper) "Varna. 2.VIII.34. | Karnojizky"; (2) printed (on white paper) "NMNHS-INV-T-0338"; [3 3] (1) handwritten (on white paper) "Varna. | 2.VIII.1931 | Karnojizky."; (2) printed (on white paper) "NMNHS-INV-T-0339"; [4 3] (1) printed (on white paper with handwritten inscriptions, here italicised) "Varna, Bulg. | N. Karnojizky | 23. 7. 1934."; (2) printed (on white paper) "NM-NHS-INV-T-0340"; [5 \mathcal{Q}] printed (on white paper) "NMNHS-INV-T-0337"; [6 ♀] printed (on white paper) "NMNHS-INV-T-01182"; paratypes 1, 5, 6 with additional, printed (on white paper with handwritten inscriptions, here italicised) "Varna, Bulg. | N. Karnojizky | 2. 8. 1936"; all the paratypes with additional, printed (on red paper with black frame) "Z. c. v. hyperonobrychis | Holik | [line] | COTYPE".

The number of specimens in the original type series has never been mentioned (Holik, 1939: 200). Currently treated as a junior subjective synonym of *Zygaena carniolica wiedemannii* Ménétries, 1839 (Hofmann & Tremewan, 1996: 113).

rebeli Drenowski, 1928

"Zygaena purpuralis (Brünn.) n. var. rebeli" (Drenowski, 1928: 211). Type locality: Bulgaria: [Central Rhodopes (higher parts, near Manastirska Mahala and Shiroka Laka Villages and Chepelare Town), at an altitude 1400–1700 m] (Drenowski, 1928: 211).

Paralectotype ♂ (Fig. 4) with labels: (1) printed (on white paper with handwritten inscriptions, here italicised) "Rhodopegebirge | 1923. VII | Al. K.





Fig. 4 "Zygaena purpuralis var. rebeli", paralectotype ♂ (left: upperside, right: underside).

Drenowski", on the back handwritten, in Cyrillic, here transliterated "Nad s. Manastir | 18.VII—1550 m"; (2) handwritten (on white paper with black frame) "Zygaena | purpuralis Brün | var. Drenowskii Brün"; (3) red paper, blank; (4) printed (on white paper) "NMNHS-INV-T-0336".

The number of specimens in the original type series has not been stated (Drenowski, 1928: 211–213). The lectotype has been designated by Naumann (1982: 379). Currently treated as a junior subjective synonym of *Zygaena purpuralis lathyri* Boisduval, [1828] (Hofmann & Tremewan, 1996: 74).

tonzanica Holik, 1939

"Zyg.[aena] (Argumenia [sic] Hb.) carniolica Scop. var. tonzanica m. (var. nov.)" (Holik, 1939: 194). Type locality: Bulgaria: "Slivno [Sliven]" (Holik, 1939: 194).

Paratypes 2 33 with labels: [1] (Fig. 5) (1) printed (on white paper with handwritten inscriptions, here italicised) "Sliven | 12.VI.1912 | P.Tschorbadjiew"; (2) handwritten (on white paper, in Cyrillic, here transliterated) "Cherk kor. | 12.VI.12"; (3) handwritten (on green paper, crossed) "Z. carniolica Z. | var amasina | Stgr."; (4) printed (on red paper with black frame) "Z. carniolica | v. tonzanica | Holik [line] | COTYPE"; (5) printed (on white paper) "NMNHS-INV-T-0341"; [2] (1) printed (on white paper with handwritten inscriptions, here italicised) "Sliven | 24.VIII.1913 | P.Tschorbadjiew"; (2) handwritten (on white paper with black frame) "Slivno | Ablanovo | 24. VIII.913"; (3) printed (on red paper with black frame) "Z. carniolica | v. tonzanica | Holik | [line] | COTYPE"; (5) printed (on white paper) "NMNHS-INV-T-0342".

The number of specimens in the original type series has never been mentioned (Holik, 1939: 194). Currently treated as a junior subjective synonym of *Zy*-





Fig. 5 "Zygaena carniolica var. tonzanica", paratype & (left: upperside, right: underside).

gaena carniolica wiedemannii Ménétries, 1839 (Hofmann & Tremewan, 1996: 113).

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