Types of Balkan butterflies in the collection of Muséum national d’Histoire naturelle, Paris (Lepidoptera: Papilionoidea)

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Abstract: The list comprises type material of butterflies from the Balkan Peninsula kept at Laboratoire d’Entomologie, Muséum national d’Histoire naturelle, Paris. The collection contains types of 26 nominal species group taxa, described primarily by Hans Fruhstorfer, but also by Hans Rebel, Felix Bryk, Curt Eisner, Georges Bernardi. Six taxa belong to the family Papilionidae, one to Pieridae, and 19 to Nymphalidae. For the stability of nomenclature, lectotype has been designated for Euphydryas maturna idunides (Fruhstorfer, 1917).

Keywords: Balkan Peninsula, holotype, lectotype, Nymphalidae, Papilionidae, Pieridae, syntype

Introduction

Taxonomic studies of any group of animals, including butterflies, Papilionoidea, serve as a basis for future investigations. Of special importance in any taxonomic study is the good knowledge on the type material of the taxa in question, and as far as name-bearing types (holotypes, lectotypes, syntypes) serve as a standard of nominal species group taxa, it is important to know all the data which can help in their subsequent recognition (including labels descriptions). Moreover, publishing lists of such types housed at certain institutions is even recommended (ICZN, 1999: 72F.4).

The Muséum national d’Histoire naturelle in Paris (Fig. 1) is well known as a depository of important collection of type material of World Lepidoptera, with many taxa represented by primary types. The butterfly collection kept at Laboratoire d’Entomologie occupies several rooms and is housed in different types of shelves and cabinets.

The catalogue presented here continues the series on type material of Balkan butterflies already published – of the former Institute of Zoology [Institute of Biodiversity and Ecosystem Research] at the Bulgarian Academy of Sciences, Sofia (Abadjiev, 2001) and The Natural History Museum, London (Abadjiev, 2002, 2006). For the purpose of the current work, the study area has been expanded outside the geographical boundaries of the Balkan Peninsula and includes all the territory of the former Yugoslavia and some Greek islands.

Abbreviations

BMNH The Natural History Museum, London
ibid. ibidem [in that very place]
ICZN International Commission on Zoological Nomenclature
MNHN Muséum national d’Histoire naturelle, Paris
ZMHB Museum für Naturkunde der Humboldt-Universität, Berlin

Results and discussion

This publication is a result of my research visit to the Laboratoire d’Entomologie, Muséum national d’Histoire naturelle, Paris in October 2003. A revision of the collection there allowed to find Balkan butterfly type material represented by 113 specimens belong-
ing to 26 nominal species group taxa. The collection contains types of taxa described primarily by the German explorer, insect trader and entomologist Hans Fruhstorfer (1866–1922), but also by the Austrian entomologist Hans Rebel (1861–1940), the Swedish anthropologist, entomologist and writer Felix Bryk (1882–1957), the German entomologist Curt Eisner (1890–1981), and the French entomologist Georges Bernardi (1922–1999).

The names of the taxa are arranged in alphabetic order and each entry includes the associated family name, original combination quoted from the original publication, type locality (containing a quotation from the original publication or subsequent fixation due to lectotype designation), type specimens as specified with their labels, and notes about the type material and/or current taxonomic status. All extensions of used abbreviations or remarks are enclosed in square brackets “[ ]”. The text of the label is quoted in double quotation marks and each line in the text of the label is separated by a vertical line “|”; in quotations of combined labels (handwritten on printed forms) the handwritten text is reproduced in italics, completely handwritten and completely printed labels are quoted in a plain character face.

**boris** Fruhstorfer, 1917 (Nymphalidae) – “Me-
litaea athalia boris subspec. nova” (Fruhstorfer, 1917b: 19). Type locality: “Bulgarien, Rhodope [Rila]” (ibid.: 19). Holotype ♀ (by monotypy) with labels: (1) printed with handwritten inscriptions, here italicised (on white paper) “Bulg. Rhodope Geb. | 11.7 | M. Hilf 1911 | Coll. O. Leonhard”; (2) printed (on red paper) “Type”; (3) printed (on white paper) “MUSÉUM PARIS | 1934 | COLL H FRUHSTORNER”; (4) printed with handwritten inscriptions, here italicised (on white paper) “MUSÉUM PARIS | figuré | par | Verity”; (5) handwritten (on white paper) “Me-

**bosna** Fruhstorfer, 1908 (Nymphalidae) – “Argy-
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drenowskyi Bryk & Eisner, 1934 (Papilionidae) – “Parnassius mnemosyne subsp. drenowskyi (subsp. nova)” (Bryk & Eisner, 1934: 9). Type locality: “[Bulgaria], Varna, Kl. Galata” (ibid.: 9). Paratype ♂ with labels: (1) handwritten (on white paper) “Bulgaria | Galata | 20/5–31”; (2) printed (on red paper) “PARATYPUS”; (3) printed (on white paper) “MU-
SÉUM PARIS’; (4) handwritten (on white paper with black frame) “subsp. drenowskyi | Bryk & Eisner”; (5) printed (on white paper with black frame) “Coll. Eisner | Berlin”; (6) printed (on white paper) “MNHN | 0016 | S. Abadjiev”. Originally the type series comprises 6 ♂♂, 4 ♀♀ (ibid.: 9). The specimen has been mentioned by Bernardi & Viette (1966: 95).

druentia  

idunides  
Fruhstorfer, 1917 (Nymphalidae) – “Melitaea. maturna idunides subspec. nova” (Fruh-
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**narenta** Fruhstorfer, 1917 (Nymphalidae) – “*Melitaea phoebe narenta* subspec. nova” (Fruhstorfer, 1917a: 1). Type locality: “Herzegovina, Jablanica” (ibid.: 1). Syntypes ♂♂, ♀♀ with labels: [♂] (1) printed (on white paper) “Hercegovina | Cvrsnica | 1901”; (2) handwritten (on white paper) “narenta”; (3) printed (on red paper) “Type”; (4) printed (on white paper) “MNHN | 0097 | S. Abadjiev”; [♀] (1) printed with handwritten inscriptions, here italicised (on white paper) “Hercegovina | Jablanica | 1901 8.7.”; (2) printed (on white paper) “MNHN | 0096 | S. Abadjiev”; both the syntypes with additional: (1) handwritten (on white paper) “Melitaea phoebe | ssp. narenta Frhst.” (1916 (Arch. Nat. A, 2, p. 1)” (2) printed (on white paper) “MUSÉUM PARIS | 1934 | COLL H FRUHSTORFER”. Originally the material mentioned comprises 5 ♀♀ in Kollektion Leonhard ♂♀-Type. A junior subjective synonym of *Papilio phoebe* ([Denis & Schiffermüller], 1775) (van Oorschot & Coutsis 2014) wrongly interpreted the type locality as Mount Jablanica, which is on the Macedonia/Albania border. A junior subjective synonym of *Papilio phoebe* ([Denis & Schiffermüller], 1775) (van Oorschot & Coutsis, 2014: 61).

**nautaca** Fruhstorfer, 1917 (Nymphalidae) – “*Argynnis hecate nautaca* subspec. nova” (Fruhstorfer, 1917c: 26). Type locality: “Krain, Wippach” (ibid.: 26). Syntypes ♂♂, ♀♀ with labels: [♂] (1) printed (on red paper) “Type”; (2) printed (on white paper) “MNHN | 0113 | S. Abadjiev”; [♀] printed (on white paper) “MNHN | 0114 | S. Abadjiev”; both the syntypes with additional: (1) printed (on white paper) “L. Karlinger | Coll. e. Wippach | Krain, 20/6 1902”; (2) printed (on white paper) “hecate | nautaca | Fruhst.”. A junior subjective synonym of *Papilio hecate hecate* [Denis & Schiffermüller], 1775.

**ogygia** Fruhstorfer, 1908 (Nymphalidae) – “*Melitaea phoebe* ogygia nov. subspec” (Fruhstorfer, 1908a: 310). Type locality: “Griechenland, Poros”


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(on white paper with double frame) “Krain | Fruhstorfer”; (2) printed (on white paper) “MUSÉUM PARIS | 1934 | COLL H FRUHSTORFER”. The lectotype designation by Bernardi & de Lesse (1951: 140) can be considered invalid since there are 8 ♀♂ with “Krain | Fruhstorfer” and none of them is labelled properly as a lectotype. A junior subjective synonym of *Papilio diamina diamina* Lang, 1789 (Higgins, 1941: 323).

**scardona** Fruhstorfer, 1910 (Nymphalidae) – “Melitaeia. athalia scardona subspec. nova” (Fruhstorfer, 1910b: 51). Type locality: “Agram [Zagreb]” (ibid.: 51). Syntypes 3 ♀♂ with labels: [1] (1) printed with handwritten inscriptions, here italicised (on yellowish paper) “MUSÉUM PARIS | genitalia | Verity”; (2) handwritten (on white paper) “Melitaeia athalia ssp. scardona Frhst | 1911 (Soc. ent. p. 53)”; (3) handwritten (on white paper) “scardona” (fourth); (4) printed (on red paper) “Type”; (5) printed (on white paper) “MNHN | 0030 | S. Abadjiev”; [2] printed (on white paper) “MNHN | 0055 | S. Abadjiev”; [3] (1) handwritten (on white paper with black frame) “athalia | scardona | Frhst.”; (2) printed (on white paper) “MNHN | 0056 | S. Abadjiev”; syntypes 1, 2 with additional: printed with handwritten inscriptions, here italicised (on yellowish paper) “Agram | Fruhstorfer.”; (2) printed (on white paper) “MUSÉUM PARIS | 1934 | COLL. H. FRUHSTORFER”. The lectotype designation by Bernardi & de Lesse (1951: 142) can be considered invalid since there are 8 ♀♂ with “Agram | Fruhstorfer.”, 2 of which with “MUSÉUM PARIS | figuré | par | Verity”, and none of these specimens is labelled properly as a lectotype. A junior subjective synonym of *Papilio athalia athalia* Rottenturm, 1775.


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