

A catalogue of the type specimens of Palaeartic Riodinidae and Lycaenidae (Lepidoptera, Rhopalocera) deposited in the collection of the Museum für Naturkunde der Humboldt Universität zu Berlin

Yuri P. NEKRUTENKO

Schmalhausen Institute of Zoology, UA-01601 Kiev 30, MSP, Ukraine
e-mail: ypnekrut@mbat.freenet.kiev.ua

Summary. A revision of the Lepidoptera collection of the Museum für Naturkunde der Humboldt Universität zu Berlin showed it to contain the type material of 3 nominal species-group taxa of Palaeartic Riodinidae and 273 of Lycaenidae; of these 42 label names were found to be unavailable as infrasubspecific (17), preoccupied (22; published replacement names are cited) and/or unpublished (3); the type material of 30 species-group taxa, thought to be deposited in the collection, was not found. Among others, the collection contains type material of Alphéraky, A. & O. Bang-Haas, Christoph, Grum-Grshimaïlo, Herrich-Schäffer, Klug, Kollar, Lederer, Püngeler, Rebel, Staudinger and others.

Zusammenfassung. Eine Revision in der Schmetterlingssammlung des Museums für Naturkunde der Humboldt Universität zu Berlin zeigte, daß das Typenmaterial nomineller Taxa der Artengruppe von 3 paläarktischen Riodinidae sowie 273 Lycaenidae vorhanden ist; von diesen sind 42 Namen nicht verfügbar als infrasubspezifisch (17), präokkupiert (22, veröffentlichte Ersatznamen werden zitiert) und/oder unveröffentlicht (3); das Typenmaterial von 30 Taxa der Artengruppe, welches in der Sammlung vermutet wurde, konnte nicht gefunden werden. Die Sammlung enthält unter anderem Typenmaterial von Alphéraky, A. & O. Bang-Haas, Christoph, Grum-Grshimaïlo, Herrich-Schäffer, Klug, Kollar, Lederer, Püngeler, Rebel, Staudinger u. a.

Résumé. Une révision de la collection de lépidoptères du Museum für Naturkunde der Humboldt Universität zu Berlin a démontré que celle-ci contient le matériel type de 3 taxons nominaux du niveau espèce de Riodinidae et 273 de Lycaenidae; parmi ceux-ci, 42 noms se sont révélés non disponibles, étant infrasubspécifiques (17), préoccupés (22; les noms de remplacement publiés sont cités) et/ou non publiés (3); le matériel type de 30 taxons du niveau espèce, supposé être déposé dans la collection, n'a pas été retrouvé. La collection comprend, entre autres, du matériel type d'Alphéraky, A. & O. Bang-Haas, Christoph, Grum-Grshimaïlo, Herrich-Schäffer, Klug, Kollar, Lederer, Püngeler, Rebel, Staudinger et autres.

Key words: Lepidoptera, Rhopalocera, Riodinidae, Lycaenidae, Museum für Naturkunde der Humboldt Universität zu Berlin, collections, type specimens, nomenclature.

...et non est creatura invisibilis in conspectu eius, omnia autem nuda et aperta sunt oculis eius, ad quem nobis sermo.

Ad Hebraeos 4, 13

The Museum für Naturkunde der Humboldt Universität zu Berlin is a depository of the largest and most important reference collection of the Lepidoptera in Europe. It contains the type series of the species-group nominal taxa established during the 19th and 20th centuries by the founders of modern lepidopterology Gottlieb August Wilhelm Herrich-Schäffer, Julius Lederer, Otto Staudinger and their successors Andreas and Otto Bang-Haas and many of their contemporaries, giving the Museum an importance of the Promised Land for anyone involved with systematics, taxonomy, nomenclature, faunistics and zoogeography of Palaearctic and extra-Palaearctic Lepidoptera.

This publication is one of the results of my research visit to the Humboldt University Natural History Museum during October–December 1998, sponsored by the Deutscher Akademischer Austauschdienst (DAAD). At the outset of this project, the Palaearctic Riodinidae/Lycaenidae collection was rearranged to assemble chaotically diffused material into an integrated body convenient for practical use.

A first examination of the Lepidoptera collection as a whole brought to light that Palaearctic Riodinidae/Lycaenidae material was scattered among 5 main more or less compact collection bodies left almost intact since their arrival to Berlin:

(1) Primary collection arranged by Klug or under Klug's supervision (early 1820's).

The Berlin Lepidoptera collection became renowned after 1818, when Johann Christoph Friedrich Klug took up the post of the second director (after Illiger) of the Zoological Collection. From this time on (tentatively from between the 1820's and 1830's) a documentary history of the collection begins in form of a hand-written inventory book entitled *Catalogus Generalis Musei Zoologici Berolinensis*. The Lepidoptera section of this document is bound in several volumes (Vol. 1: Nos 1–3753; Vol. 2: Nos 3754–10098 enumerated in chronological order but not dated — see Appendix) and is deposited in the Museum's Lepidoptera Section library. It reflects the collection inventory connected with the collection itself through the specimens' inventory numbers

(first column of each *Catalogus* entry/row). In its original arrangement, the specimens were placed in conventional insect drawers, each series or single specimen under a drawer label with species-group name and author, reference to original and subsequent descriptions and illustrations, locality and collector (provider); the first specimen below the drawer label was labelled with a printed inventory number referring to a *Catalogus Generalis* row of the following columns: inventory (label) number | binominal or trinominal name | number of specimens | locality | collector/provider. All these data, along with those contained in the original description, may provide some evidence for the origin and thus for the nomenclatural status of the specimen(s). All *Catalogus Generalis* entries for type specimens are quoted in the Appendix below.

(2) Staudinger collection (including Lederer and partly Herrich-Schäffer collections as an integral part; received 1948 — see Horn *et al.*, 1990: 168, 229, 377).

The Staudinger collection, in its primary state, has been placed in so-called “glass cases”: wooden drawers with a glass lid and a glass bottom supplied with transverse grooved wooden bars parallel to smaller side. The groove of each bar is filled with a cork- or peat-like material in which pinned specimens could be set in one line columns far enough from one another to accommodate specimen wingspan. To save space, the specimens in a column were originally pinned tilewise overlapping (Fig. 1, bottom left), causing a tangible inconvenience in manipulations that often resulted in damage from clumsy handling. Each species-group taxon was set under a drawer name label, with each series beginning with a specimen having a handwritten coloured locality label; the rest of the specimens from the same locality are usually labelled with circles punched from the same label paper as the locality label. In addition to locality labels, most of the type specimens also have a characteristic printed label “Origin.[al]” (on pink paper), with the first specimen in the type series being supplied with a handwritten (by Staudinger) identification label. The specimens from the Lederer collection were signed by Staudinger with printed labels “Coll. | Led.” (on white paper). In case of non-designated types, when their type status (as syntype or holotype by monotypy) was traced and determined now by external unambiguous proof, they were provided with new designation labels.

(3) Bang-Haas (A. & O.) collection (received 1948 — see Horn *et al.*, 1990: 27, 377).

(4) Püngeler collection (acquired 1928 — Horn *et al.*, 1990: 314).

(5) New contributions from different donors (mostly after World War II) irregularly placed into free space in any cabinets and drawers.

When I reorganised the collections, the specimens were removed from the primary collections, pinned into plastic unit trays in their original order (each taxon separately) and assembled in conventional collection drawers to be housed in special new cabinets (Fig. 1, top left and right). Each specimen was supplied with a printed label to indicate the collection of origin: “ex coll. | STAUDINGER”, “ex coll. | [A. and/or O.] BANG-HAAS”, “ex coll | PÜNGELER” and “Zool. Mus. | Berlin” (for specimens of the primary collection and new contributions as specified respectively under (1) and (5) above). The specimens of the type series were

marked with the same labels numbered with fraction numbers to show the number of specimens in a series and a serial number of a specimen in its original position (for instance, 2/8 means second specimen in a series of eight). The type material has been placed in separate unit trays clearly designated with recognisable drawer labels.

All of Klug's extant *Rhopalocera* type material is now merged in two clearly marked drawers and is easily accessible (for a complete review see Olivier & Nekrutenko, 2000).

In the present publication, the extant type specimens (syntypes, holotypes by monotypy and, when validly fixed, lectotypes, paralectotypes, neotypes with reference to primary sources) of the riodinid and lycaenid butterfly nominal species-group taxa deposited in the Lepidoptera collections of the Museum für Naturkunde der Humboldt Universität zu Berlin are listed and commented. The species-group taxa names are arranged in alphabetical order, separately for Riodinidae and Lycaenidae.

Each entry opens with the species-group name originally applied to the specimens, with its author and date (as a heading line); available names are given in **boldface**, unavailable ones (infrasubspecific, junior homonyms, unpublished, *nomina nuda*) in lightface (as here) characters; with homonyms and unpublished names not italicized). The heading line is followed by a paragraph containing original combination quoted from the primary source with full reference; a section *Type locality* containing a quotation from the original description along with data on the type material when stated; then, after an em-dash (—), a synonymy, homonymy (and a replacement name when available) are given with reference to the appropriate literary sources.

For each specimen the label text is quoted in single quotation marks in following order: identification and locality label; accessory label(s) (origin, depository, inventory (catalogue) nos. etc.); designation label(s). In cases when a specimen is considered to belong to the type series only doubtfully, it is indicated in the list with a question mark (?-♂ or ?-♀).

In the section *Types* (entitled, dependent on status, as *Syntype(s)*, *Holotype*, *Paratype(s)*, *Allotype*, *Lectotype*, *Paralectotype(s)*, *Neotype*), to assist better recognition of the specimen, the quotation of each label is provided with the characteristics of the paper on which it is written. In run-in quotations, each line of the label text is separated by a vertical line (|). All extensions of abbreviations used in the label text are enclosed in square brackets ([]); necessary comments or remarks inserted in the label text are given in angle brackets (< >). The square brackets are still used here to include the year of publication established after external sources, although this is no longer recommended in the current edition of the Code. 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 standard character face (as here); the printed labels are quoted with their original text layout. When important and known, for handwritten text the writer's name is given in parentheses.

This Catalogue reflects the state of the collection on 31 December 1998. Subsequent taxonomic treatments (lectotype designations etc.) will, however, briefly be referred to, with reference to the publication.



Fig. 1. — Lycaenidae in the collection of the Museum für Naturkunde der Humboldt Universität zu Berlin, before (bottom left) and after (top left, right) rearrangement for the purpose of the present Catalogue.

RIODINIDAE

lua Grum-Grshimailo, [1891]

'*Polycaena Lua*' Grum-Grshimailo, [1891]: 454. Type locality: 'In montibus Sinin-Schan detecta'.

Syntypes 2♂, ♀:

- ♂ with handwritten labels: 'Thibet | Sinin Alp.[es] | [18]90 [legit] Gr. Gr.' (on brown paper), small date label '27.VI.[18]90' (on faded white paper, Grum-Grshimailo), 'Polycaena | Lua | Sinin Schan' (on white faded paper, A. Bang-Haas);
- ♂, ♀ with circles of brown locality label paper.

The syntypes, received by Staudinger from Grum-Grshimailo, are provided now with a printed label '*lua* | Grum-Grshimailo [1891] | SYNTYPUS | Y. Nekrutenko det. 26.11.1998' (on yellow paper).

tamerlana Staudinger, 1886

'*Polycaena* (nov. genus) *Tamerlana* Stgr.' Staudinger, 1886: 227. Type locality: '...wurde 1882 von Haberhauer jun. bei Osch entdeckt... Später erhielt ich auch Stücke vom Alai und Namangan...'

Syntypes 9♂, 4♀:

- ♂ with labels: handwritten (Staudinger) '*Polycaena* Stgr. | *Tamerlana* Stgr.' (on white paper), handwritten 'Margelan | Maur.[er] [18]84' (on brown paper), printed 'Origin.' (on pink paper) and a cut [from envelope or wrapper?] 'von 17/6 bis 29/6 <year?>' (on white faded paper);
- ♂ with labels: handwritten 'Osch | Hbh. [Haberhauer]' (on brown paper), handwritten date label '19/7 [1882]' (on white paper) and printed 'Origin.' (on pink paper);
- 5♂, 3♀ with circles of brown locality label paper and printed 'Origin.' (on pink paper), one ♂ also with handwritten (Staudinger) label '*Tamerlana* | Stgr.' (on white paper);

- ♂ with labels: handwritten 'Namangan | Hbh. [Haberhauer] [18]84' (on brown paper) and printed 'Origin.' (on pink paper);
- ♂, ♀ with circles of brown locality label paper and printed 'Origin.' (on pink paper).

***timur* Staudinger, 1886**

'*Polyc.[aena] Tamerlana* var *Timur* Stgr.' Staudinger, 1886: 230. Type locality: 'Herr Tancre sandte mir von seinem Sammler Rückbeil im Kuldja-District gefundene Polycycaena...'

Syntypes 6♂, 3♀:

- ♂ with labels: handwritten (Staudinger) 'v. Timur | Stgr.' (on white paper), handwritten 'Kuldja | Rkbl. [Rückbeil] [18]84' (on brown paper), printed 'Origin.' (on pink paper);
- 5♂, 3♀ with circles of brown locality label paper and printed 'Origin.' (on pink paper), one male specimen also has a handwritten (Staudinger) label 'v. Timur | Stgr.' (on white paper).

LYCAENIDAE

***acamas* Klug, 1834**

'*Lycaena Acamas*' Klug, 1834: Decas Quarta: Signature *k*(iv), Tab. 40, Figs 7–9. Type locality: 'Habitat in Syria et Arabia felici'.

Types: not found (*Catalogus Generalis*: 4105, 4106 — see Appendix); probably in The Natural History Museum in London (a passage 'The only specimens I have seen are 1 ♂ from Klug's type material, Butler's type ♀ of *bellatrix* from Suakin in the British Museum, and a cotype of the latter in Mr. Joicey's collection' (Riley, 1925: 88) suggests at least one of Klug's types to be deposited in (or received on loan by) the British Museum).

Lectotype ♀: '...females in figs 8 and 9 [of the *Symbolae Physicae*] are of "Syrian" origin. In order to avoid upsetting established usage it seems best to restrict ssp. *acamas* to Syrian populations by designating the female upperside illustrated as the actual type specimen' (Larsen, 1983: 377; ICZN Art. 74.4).

***acaudata* Staudinger, 1901**

'*Thecla Lunulata* Ersch. v. *Acaudata* Stgr.' Staudinger, 1901: 70. Type locality: 'Ferg.[ana]'.

Syntypes 6♂, 5♀:

- ♂ with labels: handwritten (Staudinger) 'Lunulata var. | Acaudata Stgr.' (on white paper) and handwritten 'Margelan | Hbhr. [Haberhauer]' (on brown-pink paper);
- 3♂, ♀ with circles of brown-pink locality label paper, ♀ has also handwritten date label '30/5 [18]80' (on white paper);
- ♂ with handwritten label 'Taschkend | [18]91 Schott' (on brown paper);
- ?-♂ with handwritten label 'Alex.[ander] Geb.[irge] | [18]86 Hbhr. [Haberhauer]' (on brown paper);
- ♀ with labels: handwritten 'Osch | Hbhr. [Haberhauer] [18]82' (on brown paper) and date label '26/6' (on white paper);
- ♀ with circle of brown locality label paper and handwritten date label '18/6' (on white paper);
- ♂ with labels: handwritten 'Namangan | Hbh. [Haberhauer] [18]84' (on brown paper) and date label '6/6' (on white paper);
- ♀ with a circle of brown locality label paper.

Likewise most of the Staudinger species-group taxa becoming available after his death in 1900 (i. e. in Staudinger, 1901), the type specimens were not designated with characteristic 'Origin.' labels.

The specimens are provided now with a printed label '*acaudata* Staudinger, 1901 | SYNTYPUS | Y. Nekrutenko det. 3.11.1998' (on yellow paper).

***actinides* Staudinger, 1886**

'*Lyc.[aena] Actis* var. *Actinides* Stgr.' Staudinger, 1886: 214. Type locality: 'Diese ist bei dem vorliegenden ganz frischen ♂ aus dem südlichen Alai...'

Holotype ♂ (by monotypy):

- ♂ with labels: handwritten (Staudinger) 'Actinides | Stgr.' (on white paper), and 'Alai | [18]85 Hb. [Haberhauer]' (on brown

paper), small new label '68' (on white paper), printed 'Origin.' (on pink paper) — cf. Häuser & Eckweiler (1997: 59); Eckweiler & Häuser (1997: Pl. 10).

The specimen is provided with a printed label '*actinides* Staudinger, 1886 | HOLOTYPUS (par monotypiam) | Y. Nekrutenko det. 4.11.1998 | cf. Häuser & Eckweiler, Nachr.ent.Ver.Apollo Suppl. 16: 59 (1997)' (on red paper).

***actis* Herrich-Schäffer, [1851]**

'*Lycaena* *Actis*' Herrich-Schäffer, [1851] 1(49): Tab. 104, Figs 496–499; [1851] 6(55): 24. Type locality: 'Aus Kleinasien'.

Syntypes ♂, ♀:

- ♂ with labels: handwritten 'Actis | HSch. f. 496-97 | Atys Kind.[ermann] ms. Gerh.[ard] | t. 19. f. 3. | Amasia Kind[ermann]' (recto yellow, in printed box, verso white), printed '4723' (on white paper);
- ♀ without any label.

Catalogus Generalis: 4723 — see Appendix; cf. Häuser & Eckweiler (1997: 59).

The specimens are provided now with a printed label '*actis* Herrich-Schäffer, [1851] | SYNTYPUS | Y. Nekrutenko det. 30.11.1998' (on yellow paper). Subsequently, Olivier (2000a: 105–106) has designated the ♂ specimen as lectotype and the ♀ specimen as paralectotype, further restricting the type locality as 'Turkey, Tokat province, env. Tokat'.

***aedon* Christoph, 1877**

'*Lycaena* *Aedon* Chr.' Christoph, 1877: 236, Tab. 5, Fig. 8. Type locality: 'Ich fing überhaupt nur 3 ♂♂ davon bei Schahkuh im Juli'.

Syntype ♂:

- ♂ with labels: handwritten 'Schahkuh | Chr.[istoph]' (on yellow paper) and printed 'Origin.' (on pink paper).

***aegagrus* Christoph, 1873**

'*Lycaena Aegagrus* Chr.' Christoph, 1873: 24, Tab. 1, Figs 3, 4. Type locality: 'Ich fand der Schmetterling nur auf einer etwa 10–11,000' hoch gelegenen... muldenartigen Einsenkung am Schahkuh'.

?-Syntypes ♂, ♀:

- ♂, ♀ with labels: handwritten (Püngeler) 'Hyrkania' (on white paper, in printed box) and handwritten (Püngeler) on printed form 'Cotype <underlined> | v. *aegagrus* Chr. ♂ (♀) | von Stgr. | Püngeler' (on pink paper).

The specimens are placed under a handwritten (Püngeler) drawer label 'Pyrenaica B. | v. *Aegagrus* Chr.' (on white paper, in printed box).

***aereus* Eckweiler, 1998**

'*Polyommatus (Agrodiaetus) antidolus* subsp. *aereus* ssp. nov.' Eckweiler, 1998: 220, Farbtafel 1. Type locality: 'Iran, Azarbayjan-e-Gharbi, Takab, 10 km E Takht-e-Soleyman, 2300 m (Iran, Zagros mts.)'.

Paratype ♂:

- ♂ with printed labels: 'Iran, Azarbayjan-e-Gharbi | 10 km E Takht-e-Soleyman | 2300 m, 24.-25.VII.1998 | leg. Eckweiler 548' (on white paper, in box) and '**Paratypus** | *Polyommatus (Agrodiaetus)* | *antidolus aereus* subsp. nov. | ECKWEILER 1998' (on bluish paper, in box).

***aeruginosa* Staudinger, 1881**

'*Lycaena Cyllarus* Rott. var. *aeruginosa*' Staudinger, 1881: 285. Type locality: 'Ala Tau'.— Junior subjective synonym of *Papilio alexis alexis* Poda, 1781.

Syntypes 2♂, ♀:

- ♂ with labels: handwritten 'Saisan | Hbhr. [Haberhauer]' (on brown paper) and printed 'Origin.' (on pink paper);
- ♂ with labels: handwritten 'Lepsa | Hbhr. [Haberhauer]' (on brown paper) and printed 'Origin.' (on pink paper);
- ♀ with circle of brown locality label paper and printed 'Origin.' (on pink paper).

The specimens are placed under a handwritten drawer label 'Aeruginosa | Stgr.' (on white paper, in box).

***aestiva* Staudinger, 1871**

'*Lycaena Astrarche* Bgstr. v. gen. II (m.) *Aestiva*' Staudinger, 1871a: 11. Type locality: not stated. — Junior subjective synonym of *Lycaena calida* Bellier, 1862. — Infrasubspecific.

Syntypes 8 ♂, ♀:

- ♂ with labels: handwritten (Staudinger) 'Sn Ildefonso | m.[ihi]' (on blue-green paper), printed 'Origin.' (on pink paper);
- ♂ with labels: handwritten (Staudinger) 'Sier. d. Alfcr. | m.[ihi]' (on blue-green paper), small date label '29/6', printed 'Origin.' (on pink paper);
- ♂ with circle of blue-green locality label paper and printed label 'Origin.' (on pink paper);
- ♂ with labels: handwritten (Staudinger) 'Granada | m.[ihi]' (on blue-green paper), small date label '6/8', printed 'Origin.' (on pink paper);
- ♀ with labels: handwritten (Staudinger) 'Sier. Nev. | m.[ihi]' (on blue-green paper), printed 'Origin.' (on pink paper);
- ♂ with labels: handwritten 'Sardinia m.[ihi]' (on pale pink paper), printed 'Origin.' (on pink paper);
- ♂ with circle of pale pink locality label paper and printed label 'Origin.' (on pink paper);
- ♂ with labels: handwritten 'Graecia | Kr.[ueper]' (on yellow paper), small square piece of green paper, printed 'Origin.' (on pink paper);
- ♂ with labels: handwritten 'Parnass | 24/6 [18]65' (on white paper), circle of yellow locality label paper above and printed 'Origin.' (on pink paper).

***affinis* Staudinger, 1892**

'*Thecla Affinis* Stgr. n. sp.' Staudinger, 1892b: 148. Type locality: 'brachte Dörries 3 gute (franzenreine) anscheinend gefangene ♀ ♀ aus dem Sutschan-Gebiet mit...' — Junior subjective synonym of *Thecla eximia* Fixsen, 1887 (Staudinger, 1901: 69).

Syntypes 3 ♀:

- ♀ with labels: handwritten 'Sutschan | [18]90 Dörr.[ies]' (on blue-violet paper) and printed 'Origin.' (on pink paper);
- 2 ♀ with circles of blue-violet locality label paper, one with printed 'Origin.' (on pink paper).

***agnata* Staudinger, 1889**

'*Lycaena Agnata* Stgr (*Christophi* var.?)' Staudinger, 1889: 19. Type locality: '...sandte mir Herr Tancre 5 ♂ und 2 ♀ ein, die Rückbeil in den Gebirgen südlich vom Issyk-Kul fing...'

Syntypes 3 ♂, 2 ♀:

- ♂ with labels: handwritten (Staudinger) 'v. Agnata Stgr. | Rogneda Gr. Gr.' (on white paper), handwritten 'Issyk-Kul | mer.[idionalis] occ.[identalis] | 18[88] Rckbl. [Rückbeil]' (on brown paper), printed 'Origin.' (on pink paper);
- 2 ♂, 2 ♀ with circles of brown locality label paper and printed 'Origin.' (on pink paper).

***alaica* Staudinger, 1886**

'*Lyc.[aena]* ... *Cytis* var. *Alaica* Stgr.' Staudinger, 1886: 206, 207. Type locality: '...auf dem Alai (bei Margelan)...' — Junior subjective synonym of *Lycaena cytis panaegides* Staudinger, 1886 (Staudinger, 1901: 80).

Syntypes 5 ♂, 4 ♀:

- ♂ with labels: handwritten (Staudinger) 'var. Alaica | Stgr.' (on white paper), 'Alai | 85 Hbh. [Haberhauer]' (on brown paper), printed 'Origin.' (on pink paper);
- 4 ♂, 4 ♀ with circles of brown locality label paper and printed 'Origin.' (on pink paper) (figured in Tshikolovets, 1997a: 133, 238, pl. 40, figs 9(11)); one male specimen has also labels: handwritten (Staudinger) 'Cytis var. Alaica | Stgr.' with insertion in pencil 'Alai' (on white paper), large handwritten 'v. Panaegides | Stg. | = v. Alaica | Stg.' (in pencil, on white paper).

alaina Staudinger, 1887

'*Lycaena Alaina* Stgr.' Staudinger, 1887a: 50. Type locality: '...sandte mir Maurer 10 Stücke aus dem südlichen Alai (Transalai) ein, unter denen nur ein ♀ ist.'

Syntypes 4 ♂, ♀:

- ♂ with labels: handwritten (Staudinger) 'Alaina | Stgr.' (on white paper), handwritten 'Transalai | [18]86 Maur.[er]' (on brown paper), printed 'Zool. Mus. | Berlin' (on pale yellow paper), printed 'Origin.' (on pink paper), handwritten 'Gen. Prep. | N 3096 ♂';
- 3 ♂, ♀ with circles of brown locality label paper and printed 'Origin.' (on pink paper) — figured in Tshikolovets (1997b: 40, figs 12–15);
- ♂ with labels: printed 'Tura' (on white paper faded yellowish, in box), 'Staudinger' (on white paper faded yellowish, in box), handwritten (Püngeler) 'alaina ♂, | Cotypus | 11/09 ex coll. | Dieckmann' (on white paper) and handwritten (Püngeler) on printed form 'Cotype | *alaina* Stgr. ♂ | Püngeler' (on pink paper).

The specimens are placed under handwritten (Püngeler) drawer label 'Alaina Stgr.' (on white paper, in box).

albicans Gerhard, [1851]

'*Lycaena Corydon* Hbr.[Hübner] *Var. Albicans* Hbr.' Gerhard, [1851] (8): 17, Pl. 31, Fig. 3 a–d. Type locality: 'Spanien' ... 'Auch diese Var. stammt aus Spanien... Den Mann besitze ich, das Weibchen erhielt ich durch Herrn Lederer.' — Junior primary homonym of *Lycaena dorylas albicans* Gerhard, [1851].

Neotype ♂:

- ♂ with labels: handwritten 'Granada | m.[ihi] [18]80' (on pale greenish paper), 'albicans' (on white paper, in ball pencil), printed 'Zool. Mus. | Berlin' (on pale yellow paper), handwritten (Schurian) on printed lined form '*Polyommatus* | (*Lysandra*) | *albicans* | GERHARD 1851 | det. Schurian 1988' (on white paper), handwritten (Schurian) on printed form 'Gen. Präparat | Nr. 208/1984 | Schurian', handwritten (Schurian) on printed form 'Neotypus ♂ | *Lysandra albicans* | H.-S. (1852) | teste

SCHURIAN 1984' (on red paper), and 'Neotypus ♂ <written over printed 'Paratypus'> | *Lycaena* | *corydon albicans* | GERHARD 1851 | det. Schurian, 1988' (on red paper, in box) — Schurian (1988: 134, Taf. 1, 2, Fig. 3).

albicans Herrich-Schäffer, [1851]

'*Lycaena* | *Corydon* var. *albicans*' Herrich-Schäffer, [1851] 1(47): Tab. 103, Figs 494, 495; [*Lycaena*] *Corydon* Zell. [Lokalvarietät] *Albicans* [1852] 6(55): 27. Type locality: 'Aus Spanien.' — Junior primary homonym and junior subjective synonym of *Lycaena corydon albicans* Gerhard, [1851]. The priority of Gerhard's name over that of Herrich-Schäffer's [1851] is established here after Koçak, 1980c: 17 (cf. ICZN Art. 21.3.1, 21.3.2).

Types: not found.

alexandra Püngeler, 1901

'*Chrysophanus athamantis* Ev. var. nov. *alexandra*' Püngeler, 1901: 179, Taf. 2, Fig. 6, 6a, 6b. Type locality: '...in Anzahl aus dem Alexandergebirge'.

Lectotype ♂:

- ♂ (the end of abdomen removed, genitalia in a plastic tube) with labels: printed, with handwritten (Püngeler) insertion 'Asia centr.[alis] | Alexandergebirge | Rückbeil 1899 (recto, in box) | *athamantis* var. | *alexandra* Püng. ♂ | Original <double underlined> Oberseite | abgebildet Iris 1901 | (v. R. Tancre 1.01) (verso)' (in white paper), printed 'Type' <double underlined> | with handwritten (Püngeler) insertion 'v. alexandra Püng. ♂ | Püngeler' (on pink paper), printed 'Zool. Mus. Berlin' (on pale yellow paper), handwritten (Nekrutenko on printed form 'Figurat | par Y. Nekrutenko in: | *Vestn. zool.*, 1984, 6: | tab. ex adv. p. 48' (in white paper, in box), handwritten (Nekrutenko) 'alexandra Püng. | Lectotypus ♂ | Y. Nekrutenko design. | 13.X.1983' (on yellow paper) — Nekrutenko (1984: 44, Pl. [1]; 1985: 30, fig. 2, a, b).

Paralectotypes ♂, 2 ♀:

- ♂, 2 ♀ with labels: printed, with handwritten (Püngeler) insertion 'Asia centr.[alis] | Alexandergebirge | Rückbeil 1899' (in white paper, in box) and handwritten (Püngeler) on printed

form ‘Cotype <u></u> | v. *alexandra* Püng. ♂ (♀) | *Püngeler*’ (on pink paper).

The specimens are placed under a handwritten (Püngeler) drawer label ‘*Athamantis* Ev. | v. *Alexandra* Püng.’ (on white paper, in box).

***alpina* Staudinger, 1871**

‘*Lycaena Medon* Hufn. (*Agestis* S. V.) var *Alpina*’ Staudinger, 1871b: 52. Type locality: not stated [Parnass?] — see also Staudinger, 1901: 83 for synonymy with ‘ab. (et v.) *allous* Hb.’.

Types: not found; apparently they have never been designated.

***alticola* Christoph, 1893**

‘*Lycaena Coelestina* Ev. var. *Alticola*’ Christoph, 1893: 86. Type locality: ‘Urmus, Kasikoparan. Armeniae rossicae.’

Paralectotypes 4♂:

- ♂ with handwritten (Staudinger) labels ‘*Coelestina* var. | *Alticola* | Christoph.<sic>’ (on white paper) and ‘Urmus Cauc.[asus] m.[eridionalis] | Chr.[istoph] [18]83’ (on green paper);
- 3♂ with circles of green locality label paper; one specimen has also a printed label ‘Zool. Mus. | Berlin’ (on pale yellow paper) and handwritten (Wagner) ‘*Lycaena* | *alticola* Chr. | Urmus Cauc. m. | =*Neolysandra* | *pontica* Courv.’ (on white paper), the second has a handwritten (Staudinger) label ‘Urmus’ (on green paper), the third — handwritten (Christoph?) ‘L. *Coelestina* v. *Alticola* Chr.[istoph] | i. 1.’

Lectotype designated by Nekrutenko *in* Hesselbarth *et al.*, 1995: 652 (deposited in Zoological Institute, Russian Academy of Sciences, St.-Petersburg, Russia). Since the forementioned specimens are undoubtedly an integral part of Christoph’s type series forwarded to Staudinger, they are provided now as paralectotypes with a label ‘*coelestina alticola* | Christoph, 1893 | PARALECTOTYPUS | Y. Nekrutenko det. 11.11.1998’ (on yellow paper) — ICZN Art. 74.1.3, Recommendation 74F.

amasina Neuburger, 1900

'*Lycaena menalcas* Fr. ♂ ab. *amasina*' Neuburger, 1900: 370. Type locality: 'Aus der Gegend von Amasia erhielt ich eine bedeutende Anzahl *Lycaena menalcas* Fr. Unter ihnen befand sich ein ♂, welches abweichende Merkmale trägt.' — Infrasubspecific.

Holotype ♂ (by monotypy):

- ♂ with labels: handwritten (Neuburger?) 'Lycaena menalcas | ab. amasina | Neubgr. Amasia' (on white paper, in printed box), printed 'Type' (on pink paper), handwritten (Forster) on printed form 'Agrodiaetus | dolus ♂ | menalcas Fr. | det W. Forster 1948' (on white paper) — cf. Häuser & Eckweiler (1997: 62).

The specimen is placed under a handwritten drawer label 'menalcas | ab. amasina | Neubgr.' (on white cross-lined notebook paper).

amor Staudinger, 1886

'*Lyc.[aena] Eros* Ochs. var. *Amor* Stgr.' Staudinger, 1886: 211. Type locality: 'Ich erhielt diese Lokalform von Eros in Anzahl aus dem Alai (südlich von Margelan gelegenen Gebirgen), von Osch, und von den Gebirgen bei Samarkand.' — Junior primary homonym and junior objective synonym of *Lycaena eros amor* Lang, 1884: 371.

Lectotype ♂:

- ♂ with labels: circle of brown paper, printed 'Origin.' (on pink paper), handwritten (Lukhtanov) on printed form 'Lectotypus ♂ | amor Stgr. design. V. Lukhtanov' (on white paper, recto red, verso white) — Lukhtanov & Lukhtanov (1994: 272).

Paralectotypes 11 ♂, 10 ♀:

- ♂ with labels: handwritten (Staudinger) 'Eros v. Amor | Stgr.' (on white paper), and 'Prov. Samark.[and] | Hbhr. [Haberhauer] [18]81' (on brown paper), small date label '6/7' (on white paper), printed 'Origin.' (on pink paper), printed 'Zool. Mus. | Berlin' (on pale yellow paper), handwritten 'Polyommatus | amor Stgr. | typus (recto) | Gen. Prep. N 3092 ♂ (verso)'; (on white paper, in printed box);
- ♂ with labels: handwritten (Staudinger) 'circa Napaea ♂ | GrGr', a circle of brown locality label paper, small date label '6/7' (on white paper), and printed 'Origin.' (on pink paper);

- ♂ with labels: handwritten (Staudinger) ‘oben genau wie Erigone | Gr.-Gr. | die unten auf Htfl. | deutlicheren weissen Längsst[rich?] u. rothen Randaugen hat’ (on white lined notebook paper), circle of brown locality label paper, small date label ‘6/7’ (on white paper), and printed ‘Origin.’ (on pink paper);
- ♂ with labels: handwritten ‘Margelan | Hbhr. [Haberhauer]’, small date label ‘2/7’ (on white paper), and printed ‘Origin.’ (on pink paper);
- 3 ♀ with circles of brown locality label paper and printed label ‘Origin.’ (on pink paper);
- ♂ with labels: handwritten (Staudinger) ‘Eros v. Amor | Stgr.’ (on white paper), handwritten label ‘Alai | [18]85 Hb. [Haberhauer]’, and printed label ‘Origin.’ (on pink paper);
- ♂, 3 ♀ with circles of brown locality label paper and printed label ‘Origin.’ (on pink paper); one female specimen has a handwritten label ‘Lyc.[aena] Eros | 3000 m’;
- ♂ with labels: handwritten (Staudinger) ‘Eros v. Amor | Stgr.’ (on white paper), ‘Margelan | Maur.[er] [18]84’, and printed label ‘Origin.’ (on pink paper);
- ♂, 3 ♀ with circles of brown locality label paper and printed label ‘Origin.’ (on pink paper); the male specimen also has a handwritten date label ‘27/6’ (on white paper) and a handwritten label ‘Kara Karek’ (on white paper);
- ♂ with labels: handwritten ‘Osch | Hbhr. [Haberhauer]’ and printed ‘Origin.’ (on pink paper);
- 2 ♂, ♀ with circles of brown locality label paper and printed label ‘Origin.’ (on pink paper); one male specimen also has a small date label ‘19/7’ (on dirty white paper).

***amurensis* Staudinger, 1892**

‘*Polyommatus Hippothoë* L. var. *Amurensis* Stgr.’ Staudinger, 1892b: 155. Type locality: ‘Die mir vorliegenden 3 Pärchen vom Uss.[uri] (1 ♀ von Radd.[efka]) berechtigen...’

Syntypes 3 ♂, 3 ♀:

- ♂ with labels: handwritten (Staudinger) ‘v. *Amurensis* | Stgr.’ (on white paper), handwritten ‘Sutschan | [18]90 Dörr.[ies]’ (on bluish-violet paper), printed ‘Origin.’ (on pink paper);

- ♂, ♀ with circles of bluish-violet locality label paper and printed label 'Origin.' (on pink paper);
- ♂ with labels: handwritten 'Ussuri | Dörr.[ies] [18]82' (on bluish-violet paper) and printed 'Origin.' (on pink paper);
- ♀ with circle of bluish-violet locality label paper and printed label 'Origin.' (on pink paper);
- ♀ with labels: handwritten 'Raddefskaja | Chr.[istoph]' (on bluish-violet paper), small handwritten labels '14/7 [18]76' and '11/7' (on white paper) and printed 'Origin.' (on pink paper).

***amurensis* Staudinger, 1892**

'*Lycaena Amanda* Schn. var. *Amurensis* Stgr.' Staudinger, 1892b: 162. Type locality: 'Von Radde im Bur.[eja]-G.[ebirge], von Maack am Uss.[uri] gefangen. Christoph fand diese Art im Juli bei Radd.[efka] nicht selten; Dörries sandte sie mir von Ask.[old], Baran.[owka], vom Sutschan und vom Uss.[uri]; Graeser fand sie bei Chab.[arowka] selten, bei Pokr.[ofka] ziemlich häufig'.

Syntypes 5 ♂, ♀:

- ♂ with labels: handwritten (Staudinger) 'v. Amurensis | Stgr.' (on white paper), and 'Raddefskaja | Chr.[istoph] [18]84' (on violet paper), printed 'Origin.' (on pink paper);
- ♂, ♀ with circles of violet locality label paper and printed label 'Origin.' (on pink paper);
- ♂ with labels: handwritten 'Ussuri | Dörr.[ies] [18]82' (on violet paper), printed 'Origin.' (on pink paper);
- ♂ with circles of violet locality label paper and printed label 'Origin.' (on pink paper);
- ♂ with labels: handwritten 'Baranowsky | Dörr.[ies]' (on violet paper), printed 'Origin.' (on pink paper).

Another ♂, ♀ from 'Sutschan | [18]90 Dörr[ies]' and ♂, ♀ from 'Askold | Dör.[ries]' are not designated as 'Origin.' though they fit all requirements to be syntypes.

***ankara* Schurian & Hofmann, 1983**

'*Lysandra ankara* sp. nov.' Schurian & Hofmann, 1983: 121. Type locality (holotype): 'Anatolia/Ankara, vic. Kizilçahamam, 5 km südlich, 1100–1400 m...'

Paratype ♂:

- ♂ with labels: printed, with handwritten (Schurian) insertion 'ANATOLIA/Ankara | vic. Kizilçahamam | 5km <sic> südl./nördl. <sic> | 1100-1400 m NN | leg. Schurian | 30.VII.[19]77' (on white paper) and handwritten (Schurian) on printed form 'PARATYPUS ♂ | *Lysandra* | *ankara* sp. n. | det. Schurian/Hofmann 1983' (on red paper, in box).

antidolus Rebel, 1901

'*Lycaena Dolus* Hb. var. *Antidolus* n. var.' Rebel, 1901: 167. Type locality: '...am Takaltu Dagh bei Kulp (Russ.[isch]-Südarmenien) um den 15. Juli 1901...' 'Die Typen befinden sich im k. k. naturhistorischen Hofmuseum und in der Sammlung des Herrn Bohatsch'.

Paralectotype ♂:

- ♂ with labels: handwritten 'Lyc.[aena] dolus Hb. | v. *Antidolus* Rbl. <in black ink> | Type 1902 <in red ink>' (in white paper), handwritten (Püngeler) 'Armenia | (Kasikoparan) | Gebirgsthåler, Korb 15.7.[19]01 (recto) | v. *antidolus* Rbl. ♂ | Type <double underlined> ex coll. Bohatsch | 12/1912 M. Korb Püngeler (verso)' (on white paper), handwritten (Püngeler) on printed form 'Type <double underlined> | v. *antidolus* Rbl. ♂' (on pink paper), handwritten (Forster) on printed form '*Agrodiaetus* ♂ | *antidolus* Rebel | det. W. Forster 1948' (on white paper) handwritten (Forster) on printed form 'Para-Typus ♂ | *Lycaena dolus* | *antidolus* Rebel' (on pink paper) — Forster (1961: 111); cf. Häuser & Eckweiler (1997: 63).

The specimens are placed under a handwritten (Püngeler) drawer label '*Dolus* Hb. | v. *Antidolus* Rbl.' (on white paper, in printed box).

antiochena Lederer, 1861

'*Lycaena antiochena* m.' Lederer, 1861: 148, Taf. 1, Figs 2, 3. Type locality: 'Bei Antiochia. ...erhielt ich nur 4 ♂ und 3 ♀'.

Syntypes ♂, ♀:

- ♂, ♀ with labels: handwritten 'Antiochia' (on white paper), printed 'Coll. Led.' (on white paper) and printed 'Origin.' (on pink paper).

The specimens are placed under a handwritten drawer label 'Antiochena | Ld.' (on white paper, in box).

***antiqua* Staudinger, 1900**

'*Lyc[aena]* *Chiron* Hufn. var. (*Antiqua*)' Staudinger, 1900: 334. Type locality: 'aus dem östlichen Thian Schan-Gebiet'.

Syntypes 9♂, 5♀:

- ♂ with labels: handwritten (Staudinger) 'v. Antiqua' (on white paper), and 'Thian or.[ientalis] [18]96 | Hbh. [Haberhauer]' (on brown paper) and printed 'Origin.' (on pink paper);
- ♂ with circles of brown locality label paper and printed 'Origin.' (on pink paper);
- ?-♂ with labels: handwritten (Staudinger) 'v. Antiqua | Stgr. in l. | (recto) | v. Cogistana ? (verso)' (on white paper) and 'Usgent | Hbh. [Haberhauer] [18]83' (on brown paper);
- ?-♂ with handwritten label 'Osch | Hbh. [Haberhauer] [18]80' (on brown paper);
- ?-♂ with handwritten label 'Alai | [18]85 Hbh. [Haberhauer]' (on brown paper);
- ?-2♂ with circles of brown locality label paper;
- ?-♀ with handwritten label 'Namangan | 18[84] Hbhr. [Haberhauer]' (on brown paper).
- ?-♂, ♀ with labels: printed 'Korla' (on white paper), the male specimen has a handwritten (Staudinger) label 'Chiron v. | Antiqua' (on white paper);
- ?-♂ with labels: handwritten (Staudinger) 'v. Antiqua | Stgr.' (on white paper), and 'Alex.[ander] Geb.[irge] | [18]86 Hbh. [Haberhauer]' (on brown paper);
- ?-♀ with circles of brown locality label paper;
- ?-♂ with handwritten label 'Prov. Samark.[and] | Hbhr. [Haberhauer] [18]81' (on brown paper);
- ?-♀ with circles of brown locality label paper;

Of these specimens, only two males are designated as 'Origin.[ale]' though they all originated from Central Asia and

hence may belong to the type series and should be considered syntypes: ‘...wie andere mir vorliegende centralasiatische aus dem Fergana-Gebiet... Wir versandten die centralasiatischen Stücke als var. Antiqua.’ (*op. cit.*: 334).

***aquilina* Staudinger, 1901**

‘*Lycaena* F. *Orbitulus* Prun. v. *Aquilina* Stgr.’ Staudinger, 1901: 81. Type locality: ‘Lap.[ponia]’.

Syntypes 6 ♂, 4 ♀:

- ♂ with handwritten label ‘Lapponia | Keit.[el]’ (on pale bluish paper);
- 2 ♂, 2 ♀ with circles of pale bluish locality label paper;
- ♂ with handwritten (Staudinger) label ‘Finmarken | Schm.[?]’ (on white paper);
- 2 ♂, 2 ♀ with circles of white locality label paper.

Likewise most of the Staudinger species-group taxa becoming available after his death in 1900 (i. e. in Staudinger, 1901), the type specimens were not designated with characteristic ‘Origin.’ labels. Since there are no other specimens determined as *aquilina* Stgr. in the collection, and since the specimens above are placed under the handwritten drawer label ‘v. *Aquilina* Stgr. | *Aquila* Auriv.[illius]’ (on white paper, unknown hand, in pencil) and because of the same type locality stated on the label and in the original description, they are accepted here with confidence as syntypes and provided with a printed label ‘*aquilina* Staudinger, 1901 | SYNTYPUS | Y. Nekrutenko det. 3.11.1998’ (on yellow paper).

***araxiana* Koçak, 1980**

‘*Agrodiaetus* (*Sublysandra*) *myrrhus araxiana* n. subsp.’ Koçak, 1980b: 266, Figs 6–9. Type locality: ‘Türkei, Kars, Akçay 1500–1700 m’.

Paratypes 3 ♂:

- 3 ♂ with labels: printed ‘Türkei/Kars | Akçay | 1500-1700 m | 22.7.[19]77 | leg. Eckweiler’ (on white paper), handwritten (Koçak) on printed form ‘PARATYPUS ♂ | *Agrodiaetus* | (*Sublysandra*) | *myrrha araxiana* | KOÇAK 1979’ (on red paper) — cf. Häuser & Eckweiler (1997: 109).

***ardschira* Brandt, 1938**

'*Lycaena ardschira* sp. n.' Brandt, 1938: 672, Taf. 4, Figs 6–8. Type locality: Iran, 'Comèe, 2600 m'.

Paratype ♂:

- ♂ with labels: printed 'Iran Fars | Straße Ardekan - Talochsroe | Comèe ca 2600 m 1937 | coll. Brandt' (on yellow paper), printed '61.' (on white faded paper), printed 'Paratypus' (on red paper) and handwritten 'Lycaena | ardschira B.[randt]' (on white paper) — cf. Häuser & Eckweiler (1997: 63).

***argiva* Staudinger, 1886**

'*Lyc.[aena] Argiva* Stgr. (Argus var.?)' Staudinger, 1886: 204. Type locality: 'Von dieser Art (oder Localform) besitze ich 3 ♂ and 1 ♀ aus dem Alai, 2 ♂ und 1 ♀ aus 'Margelan', die auch wohl aus dem südlich davon gelegenen Alai-Gebirge stammen, und ein ♂, welches am 10. Mai bei Namangan gefunden wurde'.

Syntypes 6♂, 3♀:

- ♂ with labels: handwritten (Staudinger) 'Argiva Stgr.' (on white paper), handwritten 'Alai | [18]85 Hbh.[Haberhauer]' (on brown paper), printed 'Origin.' (on pink paper);
- ♂ with labels: handwritten 'Alai | [18]85 Hbh.[Haberhauer]' (on brown paper) and printed 'Origin.' (on pink paper);
- ♂, ♀ with circles of brown locality label paper and printed 'Origin.' (on pink paper);
- 2♂, 2♀ with labels: handwritten 'Margelan | Maur.[er] [18]84' (on brown paper) and printed 'Origin.' (on pink paper); one ♂ and one ♀ with handwritten (Staudinger) label 'wie Roxane ♂ (♀) Gr. Gr.' (on white paper);
- ♂ with labels: handwritten (Staudinger) 'Argus var.? | Argiva Stgr.' (on white paper), handwritten 'Namangan | Hbh.[Haberhauer] [18]84' (on brown paper), printed 'Origin.' (on pink paper).

***arionides* Staudinger, 1887**

'*Lycaena Arionides* Stgr.' Staudinger, 1887b: 141, Taf. 7, Fig. 1, a–c. Type locality: 'Christoph fing diese schöne Art Ende Juli, Anfang August bei Wladiwostok; Dörries sandte sie mir später noch in einiger Anzahl vom Ussuri ein.'

Syntypes 9♂, 5♀:

- ♂ with labels: handwritten (Staudinger) 'Arionides | Stgr.' (on white paper), handwritten 'Ussuri | Dörr.[ies]' (on violet-blue paper) and printed 'Origin.' (on pink paper);
- ♂, 2♀ with circles of violet-blue locality label paper and printed 'Origin.' (on pink paper);
- ♂ with labels: handwritten 'Wladiwostock | Chr.[istoph]' (on violet-blue paper), small date label '9/8' (recto white, verso red) and printed 'Origin.' (on pink paper);
- 6♂, 3♀ with circles of violet-blue locality label paper, some with small date labels as above, and printed 'Origin.' (on pink paper).

armena Rebel, 1901

'*Thecla Myrtale* Klug var. *Armena* n. var. ♂ ♀' Rebel, 1901: 165. Type locality: '...anfangs Juli 1901 in einem Flussthale bei Kasikoparan (Russ.[isch]-Armenien, südlich von Kars gelegen)...' 'Mir liegen zur Beschreibung zwei Pärchen vor: eines aus der Sammlung des k. k. naturhistorischen Hofmuseum, das andere aus jener des Herrn Bohatsch'.

Syntypes ♂, ♀:

- ♂, ♀ with labels: printed 'Russ.[ische] Armen.[ien] | Kasikoparan | 1901 Korb' (on white paper) and handwritten (Püngeler) on printed form 'Cotype <underlined> | v. *armena* Rbl. ♂ (♀) | von M. Korb | Püngeler' (on pink paper).

The specimens are placed under a handwritten (Püngeler) drawer label 'Myrtale Klug | v. *Armena* Rbl' (on white paper, in printed box).

armena Staudinger, 1871

'*Lycaena Hylas* Esp. v. *Armena*' Staudinger, 1871a: 12. Type locality: 'Arm.[enia]'.

Lectotype ♂:

- ♂ with labels: handwritten 'Achalzich' (on white faded paper), printed 'Coll. Led.' (on white paper) and 'Origin.' (on pink paper), 'Zool. Mus. | Berlin' (on pale yellow paper), printed,

with handwritten (Wagener, in pencil) insertions ‘Abgebildet in Hesselbarth, | van Oorschot & Wagener: | Tagfalter der Türkei | Tafel 106 Figur 41’ (on white paper), handwritten (Nekrutenko) on printed form ‘LECTOTYPUS ♂ | *armena* Stgr. | Y. Nekrutenko design.’ (on yellow paper) — Nekrutenko in Hesselbarth *et al.* (1995: 658, Taf. 106, Fig. 33).

Paralectotypes, 2♂, ♀:

- ♂ with labels: handwritten ‘Achalzich’ (on white faded paper), printed ‘Coll. Led.’ (on white paper) and ‘Origin.’ (on pink paper), ‘Zool. Mus. | Berlin’ (on pale yellow paper), handwritten (Nekrutenko) on printed form ‘PARALECTOTYPUS ♂ | *armena* Stgr. | Y. Nekrutenko design.’ (on yellow paper);
- ♂ with labels: handwritten ‘Caucasus | Hbhr. [Haberhauer]’ (on green paper) and printed ‘Origin.’ (on pink paper), handwritten (Nekrutenko) on printed form ‘PARALECTOTYPUS ♂ | *armena* Stgr. | Y. Nekrutenko design.’ (on yellow paper);
- ♀ with labels: handwritten ‘Achalzich’ (on white faded paper), printed ‘Coll. Led.’ (on white paper) and ‘Origin.’ (on pink paper), ‘Zool. Mus. | Berlin’ (on pale yellow paper), handwritten (Nekrutenko) on printed form ‘PARALECTOTYPUS ♂ (♀) | *armena* Stgr. | Y. Nekrutenko design.’ (on yellow paper), printed, with handwritten (Wagener, in pencil) insertions ‘Abgebildet in Hesselbarth, | van Oorschot & Wagener: | Tagfalter der Türkei | Tafel 106 Figur 40’ (on white paper).

***armeniaca* A. Bang-Haas, 1906**

‘*Chrysophanus virgaureae* v. *armeniaca* n. var.’ Bang-Haas, A. 1906: 128. Type locality: ‘Eine Anzahl ♂♂ aus Armenien (Tschorum)...’ — Junior subjective synonym of *Papilio virgaureae virgaureae* Linnaeus, 1758 (Hesselbarth *et al.*, 1995: 470).

Lectotype ♂:

- ♂ with labels: handwritten (A. Bang-Haas?) ‘Chrys.[ophanus] Virg.[aureae] | v. Armeniaca | B-H | Tschorum Armen.[ien]’ (on white paper) and printed ‘Origin.’ (on pink paper). Designated with a handwritten label on printed form ‘LECTOTYPUS ♂ | *armeniaca* A. B.-H. | Y. Nekrutenko design.’ (on yellow paper) — Nekrutenko in Hesselbarth *et al.* (1995: 470).

Paralectotype ♂:

- ♂ with printed label 'Origin.' (on pink paper). Designated with a handwritten label on printed form 'PARALECTOTYPUS ♂ | *armeniaca* A. B.-H. | Y. Nekrutenko design.' (on yellow paper).

***arsacia* Lederer, 1869**

'*Lycaena Panagaea* H. Sch. Var. *Arsacia* Led.' Lederer, 1869: 78, Taf. 4, Fig. 9). Type locality: '...bei Astrabad in Persien... Um Astrabad fand er [Haberhauer] nur wenige Lepidopteren, dagegen zeigten sich Hadschyabad und Schaku, 120 Werste davon entfernt, reich daran' (op. cit.: 73). — Junior subjective synonym of *Lycaena anisophthalma* Kollar, 1849 (Staudinger, 1901: 80).

Syntypes 3 ♂, ♀:

- ♂ with labels: handwritten 'Lycaena | *Arsacia*', 'Astrabad' (both on white paper) and printed 'Origin.' (on pink paper);
- ♂, ♀ with labels: handwritten 'Hadschyabad' (on white paper) and printed 'Coll. Led.' (on white paper);
- ♂ with printed label 'Coll. Led.' (on white paper).

The specimens are provided now with a printed label: '*arsacia* | Lederer, 1869 | SYNTYPUS | Y. Nekrutenko det. 3.11.1998' (on yellow paper).

***asabinus* Herrich-Schäffer, [1851]**

'[*Polyommatus*] *Asabinus*' Herrich-Schäffer, [1851] 1(49): Tab. 109, Figs 527, 528; '*Helius* Kad.' [1852] 6(55): 32. Type locality: 'Aus Kleinasien.'

Types: not found.

***astraea* Freyer, [1851]**

'*Lycaena Pap.[ilio]* *Astraea*' Freyer, [1851] 6(98): 161, Tab. 583, Figs 1, 2. Type locality: 'Von Herrn Kindermann unter obigen Namen mir zugesendet. Bei Amasia'.

Syntypes ♂, ♀:

- ♂ with labels: handwritten 'Astraea | Frey.[er] h.<n.[euere]?> Beitr.[äge] t. 583 | Led. | Amasia Kind.[ermann]' (recto yellow, in printed box, verso white), printed '4679' (on white paper);
- ♀ without any label.

Catalogus Generalis: 4679 — see Appendix.

The specimens are provided now with a printed label '*astraea* Freyer, [1851] | SYNTYPUS | Y. Nekrutenko det. 7.12.1998' (on yellow paper).

***aurantiaca* Staudinger, 1901**

'*Thestor* Hb. *Nogelii* HS. v. (et ab.) *Aurantiaca* Stgr.' Staudinger, 1901: 72. Type locality: 'As.[ia] min.[or] (Kaisarie); Ant.[iochia] (Aintab)'.— Junior subjective synonym of *Thestor nesimachus* Oberthür, 1893.

Syntypes 6♂, 2♀:

- ♂ with labels: handwritten (Staudinger) 'v. *Aurantiaca* | Stgr.' (on white paper, glued to a larger piece of paper and then pinned to the specimen), handwritten 'Kaiserie <sic> | [18]86 Man.[issadijan]' (on yellow paper) and small handwritten date label '1/6' (on white paper);
- ♀ with a circle of yellow locality label paper, small date label '15/5' (on yellowish paper), printed 'Zool. Mus. | Berlin' (on pale yellow paper), printed 'Paratypus' (on red paper), handwritten '8.6 Mann | Kaiserie' (on white paper), handwritten 'Thestor *nogelii* | *aurantiaca* Stgr.' (on white paper) and printed, with handwritten (Wagener) insertions 'Abgebildet in Hesselbarth | van Oorschot & Wagener: | Tagfalter der Türkei. | Tafel 92 Figur 50' (on white paper);
- ♂ (abdomen removed), with labels: printed 'Zool. Mus. | Berlin' (on pale yellow paper), printed 'Paratypus' (on red paper), handwritten 'Kaiserie' (on white paper), handwritten 'Thestor *nogelii* | *aurantiaca* Stgr.' (on white paper) and printed, with handwritten insertion 'Genit.-Unters. | Nr. 202 | Zool. Mus. Berlin' (on white paper);
- 4♂, ♀ with a circle of yellow locality label paper, three male specimens also have small date labels '12/5' and '29/5' (on yellowish paper) and '1/6' (on white paper); last one has also labels: printed 'Zool. Mus. | Berlin' (on pale yellow paper), handwritten (Wagener) 'Thestor *nogelii* | *aurantiaca* Stgr. | [18]86 Mann. Kaiserie' (on white paper) and printed, with handwritten (Wagener) insertions 'Abgebildet in Hesselbarth |

van Oorschot & Wagener: | Tagfalter der Türkei. | Tafel 92 Figur 36' (on white paper).

aureomicans Heyne, 1897

'*Polyommatus virgaureae* L. nov. var. *aureomicans*' Heyne, 1897: 9. Type locality: 'Fluggebiet: Mersina (südliches Kleinasien, Taurus)'.

Syntypes ♂, ♀:

- ♂ with labels: handwritten 'Hadjin' (on white paper), handwritten '7/95' (on white paper), handwritten (Püngeler) 'als aureomicans | ♂ 5/1912 v.[om] Bartel | Püng.[eler]' (on white paper) and handwritten (Püngeler) on printed form 'Cotype <underlined> | v. *aureomicans* Heyne ♂ | Püngeler' (on pink paper);
- ♀ with labels: handwritten (Püngeler) 'Taurus | (Mersina) | Heyne (recto) | v. aureomicans ♀ | Cotype <underlined> | ex coll. Bernard | 3.[19]09 v.[om] M. Bartel (verso)' (on white paper) and handwritten (Püngeler) on printed form 'Cotype <underlined> | v. *aureomicans* Heyne ♀ | Püngeler' (on pink paper).

The specimens are placed under a handwritten (Püngeler) drawer label 'Virgaureae L. | v. Aureomicans Heyne' (on white paper, in printed box).

bella Herrich-Schäffer, [1844]

'*Lycaena Bella*' Herrich-Schäffer, [1844] 1(7): Tab. 49, Figs 227, 228; [1845] 1(10): 127. Type locality: 'Ein Männchen erhielt Hr. Bischoff aus der Gegend von Brussa'. — Junior subjective synonym of *Papilio argus aegidion* Meisner, 1818. Infrasubspecific.

Types: not found.

bellus Kardakoff, 1928

'*Zephyrus taxila* Brem. f. ♂ *bellus* (nom. coll.)' Kardakoff, 1928: 271, Taf. 7, Fig. 15. Type locality: '...aus dem Ussurigebiet...' — Infrasubspecific.

Syntype ♂:

- ♂ with labels: printed, with handwritten (Kardakoff?) insertion 'Narva, S. Ussurigebiet | 5.8. [19]21. N. Kardakoff' (on white paper).

paper), handwritten (Kardakoff?) ‘Zephyrus taxila Brem L. | f. ♂ bellus Kardakoff’ (on white paper) and printed ‘Typus’ (on red paper, in box).

The specimens are placed under a typewritten drawer label ‘f. ♂ bellus’ <underlined with red pencil> (on a stripe of white paper, in blue type ribbon).

***berber* Le Cerf, 1932**

‘*Lycaena coridon* Poda ssp. *berber*, nova’ Le Cerf, 1932: 163. Type locality: ‘Types : ♂♂ et ♀♀ (1 ♂ H.[olo-] T.[ype]), Maroc, Moyen Atlas: Daya Chikker, Ksar el Kebir, Timesmount, Tameghilt, Moussah ou Salah, de 1.500 à 3.000 m., 10 au 26-VIII-1930. Le mâle «Holotype» est de Ksar el Kebir.’

Paratypes ♂, ♀:

- ♂ with labels: handwritten (Le Cerf?) on printed form ‘*Lyc.[aena] coridon* | ssp. *berber* | ♂ *Cotype Le Cerf* | Coll. F. Le Cerf’, handwritten (Le Cerf?) ‘Maroc | Moyen Atlas | Ksar el Kebir | 20/25-VIII-1930 | F. Le Cerf’ and printed ‘COTYPE’ (on white paper, in red ink);
- ♀ with labels: handwritten (Le Cerf?) on printed form ‘*Lyc.[aena] coridon* | ssp. *berber* | ♀ *Cotype Le Cerf* | Coll. F. Le Cerf’, handwritten (Le Cerf?) ‘Maroc | Moyen Atlas | Ksar el Kebir | 20/25-VIII-1930 | F. Le Cerf’ and printed ‘COTYPE’ (on white paper, in red ink).

***betulina* Staudinger, 1887**

‘*Thecla Betulina*’ Staudinger, 1887b: 127, Taf.16, Fig. 6. Type locality: ‘...nur zwei Männchen, welche von Dörries am Suifun, an Apfelbäumen fliegend, gefangen wurden’.

Syntypes 2♂:

- ♂ with labels: handwritten (Staudinger) ‘*Betulina* | Stgr.’ (on white paper), handwritten ‘Suifun | [18]85 Dörr.[ies]’ (on violet-blue paper) and printed ‘Origin.’ (on pink paper);
- ♂ with circle of violet-blue locality label paper, handwritten label ‘474.’ and printed ‘Origin.’ (on pink paper).

***birunii* Eckweiler & ten Hagen, 1998**

'*Polyommatus (Agrodiaetus) posthumus birunii* subsp. nov.' Eckweiler & ten Hagen, 1998: 116, Abb. 13–16. Type locality (holotype): 'Iran, Tehran, Elburs-Gebirge 15 km E Firuzkuh (Paß), 2400 m'.

Paratype ♂:

- ♂ with printed labels: 'Iran, Tehran | Elburs-Geb. 15 km E | Firuzkuh (Paß) | 2300–2400 m | 18.VII.1997 | leg. W. ten Hagen' (on white paper). Designated with a printed label '**Paratypus** | *Polyommatus (Agrodiaetus) | posthumus birunii* subsp. nov. | des. ECKWEILER & TEN HAGEN 1998' (on bluish paper, in box).

bitonides Staudinger, 1871

'*Lycaena Biton* Brem. (an 'Bitonides' nominandus?)' Staudinger, 1871a: 13. Type locality: 'Daür. [Dahuria]; Amur' (see also Staudinger, 1892b: 163). — nomen nudum.

Types: not found.

***boisduvalii* Herrich-Schäffer, [1843]**

'*Lycaena Boisduvalii*' Herrich-Schäffer, [1843] 1(1): Tab. 2, Figs 7–9; [1844] 1(9): 121. Type locality: 'Aus dem südlichen Russland' — Junior subjective synonym of *Lycaena eroides* Frivaldszky, 1835.

Types: not found.

***borussia* Dadd, 1909**

'*Lycaena corydon borussia*' Dadd, 1909a: (1xiii); 1909b: (36). Type locality: '...a form from Berlin... The same form is reported by Herr Zobel from Osterode, East Prussia...'

Neotype ♂:

- ♂ with labels: handwritten 'Nieder- | finow [bei Eberswalde, DDR], 22.7.1982, | [leg.] Dr. Kames' (on white paper, in pencil), handwritten (Schurian) 'Polyommatus (Ly- | sandra) coridon | borussia DADD (1909) | det. SCHURIAN 1989' (on white paper), on printed form with handwritten (Schurian) insertion '*Neo-* Typus | ♂' (recto red, verso white), handwritten (Schurian) 'Neotypus ♂ | *Lycaena corydon* | borussia Dadd 1909 | design. Schurian, 1989' (recto red, verso white) — Schurian (1989: 305, Abb. 1).

***brevicaudis* Vorbrodt, 1912**

‘*Thecla F. linceus* Esp. (= *spini* Schiff.) *brevicaudis* Püngeler i. l.’ Vorbrodt, 1912: 106.
Type locality: ‘Zermatt, in etwa 40 Stücken erzogen’.

?-Syntypes 4♂, 4♀:

- ♂ with labels: printed, with handwritten (Püngeler) insertion ‘Zermatt | *Rhamnus alpina* | Püng.[eler] e[x] l.[arva] fin.[e] 7.1907’ (on white paper) and handwritten (Püngeler) on printed form ‘Type <double underlined> | v. *brevicaudis* Püng.[eler] | ♂’ (on pink paper);
- 3♂, 4♀ with same printed labels with dates of ‘fin. 7.1901’ and ‘fin. 7.1908’ (all ex larvae) and handwritten (Püngeler) on printed form ‘Cotype <underlined> | v. *brevicaudis* Püng.[eler] | ♂ (♀)’ (on pink paper).

The specimens are placed under a handwritten (Püngeler) drawer label ‘Spini Schiff. | v. *Brevicaudis* Püng.’ (on white paper, in printed box).

***brillantina* Staudinger, 1887**

‘*Thecla Brillantina* Stgr.’ Staudinger, 1887b: 130, Taf. 6, Fig. 3, a, b, c. Type locality: ‘...erhielt ich nur von der Insel Askold und vom Suifun durch Dörries in einer grösseren Anzahl meist gezogener Stücke’.

Syntypes 5♂, 5♀:

- ♂ with labels: handwritten (Staudinger) ‘*Brillantina* | Stgr.’ (on white paper), handwritten ‘Suifun | [18]85 Dörr.[ies]’ (on bluish paper), printed ‘Origin.’ (on pink paper);
- ♀ with circle of bluish locality label paper and printed ‘Origin.’ (on pink paper);
- ♂ with labels: handwritten ‘Askold | [18]83 Dörr.[ies]’ (on bluish paper) and printed ‘Origin.’ (on pink paper);
- 3♂, 4♀ with circle of bluish locality label paper and printed ‘Origin.’ (on pink paper); one ♀ also has a handwritten label ‘12’ (on white paper).

caerulea Staudinger, 1871

'*Lycaena Damon* Schiff. ab. ♀ (et v.?) *Caerulea*; *Damone* ♀ var. Ld. Hor. l. c. T. IV, 8; var. *intermedia* Iphigeniae et *Damonis* Ld. l. c. (♀ *caerul.*, ♂ *marg. lato nigro*).' Staudinger, 1871a: 13. Type locality: 'Hyrca[niae] alp.[es]'.

Syntypes 5♂, 9♀:

- ♀ with labels: handwritten 'Hadschyabad' (on white faded paper), printed, with handwritten insertion '*Damone* | Coll. Led.' (on white paper), printed 'Origin.' (on pink paper), printed 'Zool. Mus. | Berlin' (on pale yellow paper), handwritten (Wagener, in ball pencil), handwritten '*caerulea*' (on white paper);
- ♀ with labels: handwritten 'Hadschyabad' (on white faded paper), printed, with handwritten insertion '*Damone* | Coll. Led.' (on white paper), printed 'Origin.' (on pink paper), printed 'Zool. Mus. | Berlin' (on pale yellow paper), handwritten (Wagener) '*Lycaena* | *caerulea* | Stgr' (on white paper) handwritten '27' (on white notebook cross-lined paper), printed, with handwritten (Wagener) insertions 'Abgebildet in Hesselbarth | van Oorschot & Wagener: | Tagfalter der Türkei. | Tafel 121 Figur 57' (on white paper);
- ♂ with labels: handwritten 'Hadsch.[yabad] | Hbhr. [Haberhauer]' (on yellow paper), printed 'Origin.' (on pink paper), printed 'Zool. Mus. | Berlin' (on pale yellow paper), handwritten (Wagener) '*Lycaena* | *caerulea* | Stgr.' (on white paper), handwritten '26' (on white notebook cross-lined paper), printed, with handwritten (Wagener) insertions 'Abgebildet in Hesselbarth | van Oorschot & Wagener: | Tagfalter der Türkei. | Tafel 121 Figur 56' (on white paper);
- ♀ with labels: handwritten 'Hadsch.[yabad] | Hbhr. [Haberhauer]' (on yellow paper), printed 'Origin.' (on pink paper), printed 'Zool. Mus. | Berlin' (on pale yellow paper), handwritten (Wagener) '*Lycaena* | *caerulea* | Stgr.' (on white paper), printed, with handwritten (Wagener) insertions 'Abgebildet in Hesselbarth | van Oorschot & Wagener: | Tagfalter der Türkei. | Tafel 121 Figur 58' (on white paper);

- ♂ with labels: handwritten 'Schahkuh | Chr.[istoph]' (on yellow paper), printed 'Origin.' (on pink paper), handwritten date label '18/5' ('18' on white, 'V' on pink background, recto white/pink, verso pink);
- ♂ with circle of yellow locality label paper, printed 'Origin.' (on pink paper), handwritten date label '18/V' ('18' on white, 'V' on pink background, recto white/pink, verso pink);
- ♀ with circle of yellow locality label paper, printed 'Zool. Mus. | Berlin' (on pale yellow paper), handwritten (Wagner) 'Schahkuh' (on white paper), handwritten (Wagner in ball pencil) 'caerulea | Berlin' (on white paper), printed, with handwritten (Wagner) insertions 'Abgebildet in Hesselbarth | van Oorschot & Wagner: | Tagfalter der Türkei. | Tafel 121 Figur 59' (on white paper);
- 2♂, 4♀ with circle of yellow locality label paper and small Christoph's date labels. — ♀ above and these specimens undoubtedly belong to the type series though not provided with Staudinger's 'Origin.' labels (cf. Hesselbarth *et al.*, 1995: 728, Taf. 121, Fig. 56–60; Häuser & Eckweiler, 1997: 68);
- ♀ with labels: handwritten (Püngeler) 'Hyrkania (recto) | als caerulea ♀ | vom Stgr (verso)' (on white paper, recto in printed box), handwritten (Püngeler) on printed form 'Cotype <underlined> | v. caerulea Stgr. ♀ | vom Autor. | Püngeler' (on pink paper) — cf. Häuser & Eckweiler (1997: 68).

***caerulescens* A. Bang-Haas, 1912**

'*Callophrys rubi* v. *caerulescens* n. var.' Bang-Haas, A., 1912: 106. Type locality: 'Aus dem Kaukasus (Elisabethpol).' — Junior subjective synonym of *Callophrys rubi chalybeitincta* Sovinsky, 1905 (Hesselbarth *et al.*, 1995: 516).

Lectotype ♂:

- ♂ with labels: handwritten (O. Bang-Haas – sic) 'Callophrys | Rubi | v. Caerulescens | B[ang] H[aas]' (on white paper), printed 'Elisabethpol | Kaukasus' (on white paper) and printed 'Origin.' (on pink paper), handwritten (Nekrutenko) on printed form 'LECTOTYPUS ♂ | *caerulescens* O. <sic! recte A. > B.-H. | Y. Nekrutenko design.' (on yellow paper) — Nekrutenko *in*

Hesselbarth *et al.* (1995: 516), handwritten (Wagener) ‘= chalybeitincta Sovinsky’ (on white paper, in ball pencil).

Paralectotypes ♂, ♀:

- ♂ with labels: printed ‘Elisabethpol | Kaukasus’ (on white paper) and printed ‘Origin.’ (on pink paper), handwritten (Nekrutenko) on printed form ‘PARALECTOTYPUS ♂ | *caerulescens* O. <sic! recte A.> B.-H. | Y. Nekrutenko design.’ (on yellow paper);
- ♀ with labels: printed ‘Elisabethpol | Kaukasus’ (on white paper) and handwritten (Püngeler) ‘v. *caerulescens* ♀ | 1/1914 v.[om] B-Haas | Püng.[eler]’.

The specimens are placed under handwritten (Püngeler) drawer label ‘Rubi L. | ab. *Caerulescens* Courv.’ (on white paper, in printed box).

cala Strand, 1919

‘*Lycaena semiargus* Rott. ab. *cala* m.’ Strand, 1919: 18. Type locality: ‘Marburg.’ — Infrasubspecific.

Holotype ♂ (by monotypy):

- ♂ with labels: printed ‘Deutschland | Marburg i.[n] H.[essen] | E. Strand, [190]8.’ (on white paper), handwritten (Strand) on printed form ‘*Lycaena* | *semiar-* | *gus* Rott. | ab. *cala* m. ♂ | Strand det.’ (on white paper) and printed ‘Type’ (on dirty-pink paper).

***candalus* Herrich-Schäffer, [1851]**

‘[*Lycaena*] *Candalus*’ Herrich-Schäffer, [1851] 1(49): Tab. 105, Figs 502–505; [1852] 6(55): 26–27. Type locality: ‘Aus Kleinasien’.

Types: not found.

***candens* Herrich-Schäffer, [1844]**

‘*Polyommatus candens*’ Herrich-Schäffer, [1844] 1(7): Tab. 49, Figs 229–231; [1847] 1(26): Tab. 73, Fig. 355; ‘*Polyommatus Candens*’ Bischoff [1845] 1(10): 133. Type locality: ‘Ein Pärchen erhielt Hr. Bischoff aus Kleinasien’.

Types: not found.

***carmon* Herrich-Schäffer, [1851]**

‘*Lycaena* *Carmon* Kad.’ Herrich-Schäffer, [1851] 6(48): 24; [1851] 1(49): Tab. 105, Figs 506, 507. Type locality: ‘Ein Mann von Herr Kaden aus Kleinasien’.

Type (holotype by monotypy): not found (cf. Häuser & Eckweiler, 1997: 68).

***caspius* Lederer, 1869**

‘*Polyomm.[atus]* *Caspius* Led.’ Lederer, 1869: 76, Taf. 4, fig. 3. Type locality: ‘...bei Astrabad in Persien...’ (*op. cit.*: 73).

Holotype ♂ (by monotypy):

- ♂ with labels: handwritten ‘Hadschyabad’ and (Lederer?) ‘Polyomat.[us] <sic> | Caspius’ (both on white paper), printed ‘Origin.’ (on pink paper) and ‘Coll. Led.’ (on white paper).

There are one more male and one female specimen with similar locality labels but without ‘Coll. Led.’ labels provided by Staudinger with printed ‘Origin.’ Since Lederer clearly declared ‘Ich erhielt nur dies eine Exemplar’ (*op. cit.*: 77), only one of these, belonging to Lederer, is *de facto* a type; other specimens subsequently considered by Staudinger as ‘Origin.[ale]’, i. e. ‘types’, have no nomenclatural status.

The specimen is provided now with a printed label ‘*caspius* Lederer, 1869 | HOLOTYPUS | (par monotypiam) | Y. Nekrutenko det. 26.10.1998’ (on red paper).

***caucasica* Lederer, 1870**

‘*Lycaena* *Corydon* Scop. Var. *caucasica* Led. (*Polona* Led. Wien. Ent. Mtsch. T. VIII, p. 166, non Z.)’ Lederer, 1870a: 23. Type locality: not stated.

Neotype ♂:

- ♂ with labels: handwritten ‘Caucas[us]’ (on white faded paper), printed ‘Coll. Led.’ (on white paper), printed ‘Origin.’ (on pink paper), printed ‘Zool. Mus. | Berlin’ (on pale yellow paper), handwritten (Schurian) on printed lined form ‘*Polyommatus* | (*Lysandra*) | *corydonius cauca-* | *sicus* LED., 1870 | det. Schurian 1988’ (on white paper), handwritten (Schurian) ‘*Neotypus* ♂ <written over printed ‘Paratypus’> | *Lycaena* |

corydonius caucasica | LEDERER 1870 | det. Schurian, 1988'
(on red paper, in box) — Schurian (1988: 139).

***caudatus* Staudinger, 1901**

'*Chrysophanus* Hb. *Thetis* Klug. v. *Caudatus* Stgr.' Staudinger, 1901: 73. Type locality: 'Arm.[enia] m.[eridionalis]; Pont.[us] or.[ientalis]; Kurd.[istan] s.[eptentrionalis] oc.[cidentalis]. — Junior subjective synonym of *Lycaena thetis thetis* Klug, 1834.

Lectotype ♂:

- ♂ with labels: handwritten (Staudinger) 'Thetis II Gen. I v. Caudata' (on white paper), handwritten 'Kasikoparan | Cauc. m. Chr.[istoph]' (on green paper), handwritten 'thetis caudatus Staudinger, 1901 | LECTOTYPUS | Nekrutenko design. 1983' (on yellow paper) — Nekrutenko in Hesselbarth *et al.* (1995: 491).

Paralectotypes 3♂, 4♀:

- 3♂, 4♀ with circles of green locality label paper — Nekrutenko in Hesselbarth *et al.* (1995: 491).

***caudatus* Staudinger, 1901**

'*Chrysophanus* Hb. *Sarthus* Stgr. v. *Caudatus* Stgr.' Staudinger, 1901: 75. Type locality: 'Buch.[ara] s.[eptentrionale] or.[ientale] (Karategin).' — Junior primary homonym of *Chrysophanus thetis caudatus* Staudinger, 1901: 73 (above; precedence in pages); replacement name: *Lycaena ophion* Hemming, 1933: 278.

Syntypes 5♂:

- ♂ with labels: handwritten (Staudinger) 'v. Caudatus | Stgr.' (on white paper), handwritten 'Karategin | [18]89 Maur.[er]' (on brown paper) and printed 'Origin.' (on pink paper);
- 4♂ with circles of brown locality label paper and printed 'Origin.' (on pink paper); one specimen has also handwritten (Staudinger) 'Sarthus var. | Caudatus Stgr. (recto) | Caspius var. | Catapyrrus | Stgr. in l. (verso)' (on white paper); one specimen has also a handwritten label 'v. Catapyrrus' (on white paper, in pencil); printed Staudinger label 'Origin.' missing.

charybdis Staudinger, 1886

'*Lyc.[aena] Charybdis* Stgr.' Staudinger, 1886: 226. Type locality: '...erhielt ich aus der Umgegend von Margelan und Namangan...'

Syntypes 8 ♂, 5 ♀:

- ♂ with labels: handwritten (Staudinger) 'Charybdis | Stgr.' (on white paper), handwritten 'Margelan | Maur.[er] [18]84' (on brown paper), printed 'Origin.' (on pink paper);
- 5 ♂, 3 ♀ with circles of brown locality label paper and printed 'Origin.' (on pink paper); one male specimen has a handwritten (Staudinger) label 'Charybdis | Stgr.' (on white paper);
- ♂ with labels: handwritten 'Namangan | Hbh. [Haberhauer] [18]84' (on brown paper), printed 'Origin.' (on pink paper);
- ♂, 2 ♀ with circles of brown locality label paper and printed 'Origin.' (on pink paper).

christophi Staudinger, 1874

'*Lycaena Christophi* n. sp.' Staudinger, 1874: 87. Type locality: 'Herr Christoph... entdeckte diese Art zuerst bei Schahrud im nördlichen Persien.' ... 'Im voriger Jahr fand er die Art einzeln bei Krasnowodsk in Turkestan'; restricted by the lectotype designation: 'Schahrud [Iran, Semnān Province, Shāhrūd]' (Olivier, van der Poorten & De Prins, 1998: 91).

Lectotype ♂:

- ♂ (antennae missing), with labels: handwritten (Christoph) 'Schahrud | Chr[istoph]' (on yellow paper), printed 'Origin.' (on pink paper), printed '*christophi* Staudinger, | 1874 | LECTOTYPUS | Olivier, v.d. Poorten & De Prins design. | *Phegea* 1998 26(3): 91, pl. 1, f. 1, pl. 2, f. 1' — Olivier, van der Poorten & De Prins (1998: 91, pl. 1, 2, fig. 1); Tshikolovets (1997a: 136, 238, pl. 40, fig. 12(14)).

Paralectotypes 6 ♂, 12 ♀:

- 5 ♂, 11 ♀ with circles of yellow locality label paper and printed labels 'Origin.', some have small handwritten date labels, ♂ and 4 ♀ have no 'Origin.' labels;

- ♂ (abdomen missing), ♀ with labels: handwritten (Püngeler) ‘Regn.[i] Pers.[iae] | sept.[entrionalis]’ (on white paper, in printed box) and handwritten (Püngeler) on printed form ‘Cotype <underlined> | *Christophi Stgr.* ♂ (♀) | vom Autor | Püngeler’ (on pink paper).

***chrysopsis* Grum-Grshimaïlo, 1888**

‘*Lycaena Chrysopsis* m.’ Grum-Grshimaïlo, 1888: 306. Type locality: ‘Hindukush orient.’

Paralectotypes ♂, ♀:

- ♂ with labels: handwritten (Staudinger) ‘*Chrysopsis* | Gr. Gr.’ (on white paper), handwritten (Grum-Grshimaïlo, in Russian) ‘Beik | 12. VII.[18]87’ (on white paper), handwritten ‘Hindukusch or.[ientalis] | [18]87 Gr. Gr.’ (on brown paper);
- ♀ with circle of brown locality label paper and handwritten (Grum-Grshimaïlo, in Russian) label ‘Beik | 11. VII.[18]87’ (on white paper).

In evidence that these specimens, forwarded by Grum-Grshimaïlo to Staudinger, belong to the type series, a quotation from a subsequent publication by the author (redescription and type locality restriction) follows: ‘J’ai découvert *Chrysopsis* dans les monts Kounjout, où elle volait sur les bords d’un ruisseau, qui se déverse dans le Beik méridional’ (Groum-Grshimaïlo, 1890: 416–417, pl. 10, fig. 5a, 5b). Lectotype designated by D’Abrera (1993: 498, figs. [not numbered] ‘det. Balint’ — deposited in The Natural History Museum, London; see also Tshikolovets, 1997a: 158).

The specimens are provided now with a printed label ‘*chrysopsis* | Grum-Grshimaïlo, 1888 | SYNTYPUS | Y. Nekrutenko det 5.12.1998’ (on yellow paper).

***cilissa* Lederer, 1861**

‘*Cigaritis Cilissa*’ Lederer, 1861: 147, Taf. 1, Fig. 1. Type locality: ‘Bei Mersin und Antiochia’.

Syntypes ♂, 2 ♀:

- ♂ with labels: handwritten 'Antiochia' (on white paper), printed 'Coll. Led.' (on white paper) and 'Origin.' (on pink paper);
- 2 ♀ with labels: handwritten 'Antiochia', circles of white locality label paper and printed labels 'Coll. Led.' (on white paper) and 'Origin.' (on pink paper).

The specimens are placed under a handwritten (Staudinger) drawer label 'v. Transcaspica | Stgr.' (on white paper).

***cinnides* Staudinger, 1901**

'*Lycaena* F. *Bellargus* Rott. ab. *Cinnides* Stgr.' Staudinger, 1901: 86. Type locality: not stated. — Infrasubspecific.

Types: not found (probably not designated).

***clara* Staudinger, 1901**

'*Lycaena* F. *Baton* Berg. v. et ab. *Clara* (Stgr.) Chr. Mém. Rom. III p. 51' Staudinger, 1901: 81. Type locality: 'Syr.[ia]; Kurd.[istan]; Tura; Ferg.[ana] m.[eridionalis] etc.' — Junior primary homonym of *Lycaena clara* Edwards, 1880; replacement name: *Scolitantides astabene* Hemming, 1932: 181.

Types: not found.

***cognata* Staudinger, 1892**

'*Thecla Orientalis* Murr. (*Diamantina* Obrth) und var. ? *Cognata* Stgr.' Staudinger, 1892b: 152 (footnote). Type locality: 'Dörries brachte 11 Pärchen aus dem Sutschan-Gebiet... Denn es liegen mir 3 fast ganz mit diesen übereinstimmende ♂ ♂ vom Uss.[uri], Suif.[un] und Ask.[old] vor und von Ask.[old] auch 4 völlig übereinstimmende ♀ ♀'.

Lectotype ♂:

- ♂ (abdomen removed), with labels: handwritten (Staudinger) 'v. Cognata ♀ ♀ | Stgr.' <sic> (on white paper), handwritten 'Sutschan | [18]90 Dörr.[ies]' (on violet-bluish paper), printed 'Origin.' (on pink paper), three slovenly scribbled handwritten (Dantchenko): '8.03.[19]96 | Dantchenko | abdomen' and '4' (both on white paper, in red ink), and 'S. Cognata <blot> | Stg. | lectotypus | Dantchenko | A. V. gesign. (sic!) | 1996' (on red paper, in black ink), printed 'Lectotype: - | *Thecla orientalis* |

var. *cognata* Staudinger | Designated by | S. Matsuda, 1996' (on white paper and glued to a larger piece of red coloured paper) — Matsuda (1996: 175, Fig. 1a – 1c).

Paralectotypes 4♂, 10♀:

- ♂ with labels: handwritten 'Askold | Dörr.[ies] [18]83' (on bluish-violet paper), printed 'Origin.' (on pink paper), and two handwritten (Dantchenko) 'Dantchenko | abdomen | 8.03.[19]96' and '5' (both on white paper, in red ink), printed 'Paralectotype: - | *Thecla orientalis* | var. *cognata* Staudinger | Designated by | S. Matsuda, 1996' (on white paper and glued to a larger piece of red coloured paper) — Matsuda (1996: 175, Fig. 3a – 3c).
- ♂ with labels 'Ussuri | Dörr.[ies] [18]82' (on bluish-violet paper), printed 'Origin.' (on pink paper), printed 'Paralectotype: - | *Thecla orientalis* | var. *cognata* Staudinger | Designated by | S. Matsuda, 1996' (on white paper and glued to a larger piece of yellow coloured paper) — Matsuda (1996: 175, Fig. 2a – 2c).
- 3♀ with circles of bluish-violet locality label paper and printed 'Origin.' (on pink paper), one of them with handwritten (Dantchenko) labels '8.03.96 | Dantchenko | abdomen' and '3' (both on white paper, in red ink), another with handwritten (Dantchenko) 'abdomen | Dantchenko | 8.03.96' and '6' (both on white paper, in red ink), all with printed labels 'Paralectotype: - | *Thecla orientalis* | var. *cognata* Staudinger | Designated by | S. Matsuda, 1996' (on white paper glued to a larger piece of yellow coloured paper) — Matsuda (1996: 175, Figs 4a–c, 5a–c, 7a–c);
- ♀ with labels: handwritten (Staudinger) 'Orientalis var. | *Cognata* Stgr. | ♀ dimorph' (on white paper), handwritten 'Sutschan | [18]90 Dörr.[ies]' (on bluish-violet paper), printed 'Origin.' (on pink paper), 'Paralectotype: - | *Thecla orientalis* | var. *cognata* Staudinger | Designated by | S. Matsuda, 1996' (printed on white paper glued to a larger piece of yellow coloured paper) — Matsuda (1996: 175, Fig. 6a – 6c);
- 2♀ not designated as paralectotypes though placed aside and having Staudinger's printed labels 'Origin.' and circles of

bluish-violet locality label paper, each with handwritten (Staudinger) labels ‘v.? Cognata ♀♀ | von Askold <underlined>’ and ‘Brillantina | Orientalis hybr.?’ (both on white paper).

An additional 2♂ and 4♀ housed in another cabinet were apparently not found by Matsuda and also constitute an integral part of the type series:

- ♂ with labels: handwritten (Staudinger) ‘Thecla v. ? | Cognata Stgr. | type from Sutschan <sic! in English>’ (on white paper), a circle of bluish-violet paper) and printed ‘Origin.’ (on pink paper);
- ♂ with labels: handwritten (Staudinger) ‘Orientalis var. | Cognata Stgr.’ (on white paper), handwritten ‘Sutschan | [18]85 Dörr.[ies]’ (on bluish-violet paper), printed ‘Origin.’ (on pink paper);
- ♀ with labels: handwritten (Staudinger) ‘v.Cognata ♀♀ | Taxila <illegible> <crossed out> | von Askold | früher beschrieben’ (on white paper), a circle of bluish-violet paper and printed ‘Origin.’ (on pink paper);
- ♀ with a circle of bluish-violet paper and printed ‘Origin.’ (on pink paper);
- ♀ with labels: handwritten (Staudinger) ‘Cognata ♀ | dimorph?’ (on white paper), a circle of bluish-violet paper and printed ‘Origin.’ (on pink paper);
- ♀ with labels: handwritten ‘Askold | [18]83 Dörr.[ies]’ (on bluish-violet paper) and printed ‘Origin.’ (on pink paper).

***corydonius* Herrich-Schäffer, [1852]**

‘*Lycaena* *Corydonius*’ Herrich-Schäffer, [1852] 1(54): Tab. 123, Figs 595, 596; *Lycaena corydon* Zeller [Lokalvarietät] *Corydonius* Kef. [1852] 6(55): 27. Type locality: ‘Aus der Türkei... Aus Südrussland.’

Neotype ♂:

- ♂ with labels: handwritten ‘Helenendorf’ (on white faded yellowish paper), printed ‘Zool. Mus. | Berlin’ (on pale yellow paper), handwritten (Schurian) on printed lined form

'*Polyommatus* | (*Lysandra*) | *corydon corydonius* | H.-S. 1852 | det. Schurian 1988' (on white paper), handwritten (Schurian) on printed form 'Gen. Präparat | Nr. 221/1986 | Schurian' (on white paper), handwritten (Schurian) on printed form 'Neotypus ♂ | *Lysandra corydonius* | H.-S. (1852) | teste SCHURIAN 1985' (on red paper), and 'Neotypus ♂ <written over printed 'Paratypus'> | [*Lycaena*] | *corydon corydonius* | H.-S. 1852 | des. Schurian, 1988' (on red paper, in box) — Schurian (1988: 137, Taf. 1, 2, Fig. 6).

crimaea A. Bang-Haas

Unpublished.

Syntype ♂:

- ♂ with labels: handwritten (Püngeler) 'Krim (recto) | als damone Ev. | v. crimaea B-H ♂ | 3/1913 v.[vom] Autor | Püng.[eler] (verso)', handwritten date label '27/VI | 1911' (on white paper), handwritten (Forster) on printed form 'Agrodiætus | poseidon ♂ | krymaea Shelj. | det. W. Forster 1943', printed, with handwritten (Püngeler) insertion 'Cotype <underlined> | v. crimaea B-Haas ♂' (on pink paper).

The specimen is placed under a handwritten (Püngeler) drawer label 'Poseidon HS. | v. Crimaea B-Haas' (on white paper, in printed box).

***cyanea* Staudinger, 1899**

'*Lycaena Damone* var. *Cyanea*' Staudinger, 1899: 142. Type locality: 'zwei Pärchen durch Haberhauer von Achalzich erhielt und 3 ♂♂ in Lederers Sammlung aus Hankynda vorfand'; (restricted by the lectotype designation): Hankynda (Stepanakert = Xankändi, Nagorno-Karabakh — Forster (1956: 85).

Lectotype ♂:

- ♂ with labels: handwritten 'Hankynda' (on white paper), printed, with handwritten insertion 'Coll. Led. | *Kindermannii*' (on white paper), printed 'Origin.' (on pink paper), printed 'Zool. Mus. | Berlin' (on pale yellow paper), handwritten (Forster) on printed form 'Lecto-Typus ♂ | *Lycaena damone* | *cyanea* Stgr. | W. Forster München' (on pink paper), printed, with handwritten

(Wagener) insertions ‘Abgebildet in Hesselbarth | van Oorschot & Wagener: | Tagfalter der Türkei. | Tafel 123 Figur 36’ (on white paper) — Forster (1956: 85); Hesselbarth *et al.* (1995: Taf. 123, Fig. 36); Häuser & Eckweiler (1997: 70); Eckweiler & Häuser (1997: 122, Pl. 6).

Paralectotypes 4♂, ♀:

- ♂ with labels: handwritten ‘Hankynda’ (on white paper), printed, with handwritten insertion ‘Coll. Led. | *Damocles*’ (on white paper), printed ‘Origin.’ (on pink paper) and a circle of green paper (?-see locality label of *pseudocyanea* Forster below);
- ♂ with labels: printed, with handwritten insertion ‘Coll. Led. | *Damocles*’ (on white paper), and printed ‘Origin.’ (on pink paper);
- ♂ with labels: handwritten ‘Achalzich | Hbhr. [Haberhauer] [18]82’ (on green paper) and printed ‘Origin.’ (on pink paper);
- ♀ with a circle of green paper, small date label ‘2/8’ and printed label ‘Origin.’ (on pink paper);
- ♂ with labels: handwritten (Staudinger) ‘Derbent | Beckr. [Becker]’ (on green paper), handwritten (Staudinger) ‘Kindermann | ab.?’ (on white paper), printed ‘300.’ (on white paper faded brown), handwritten (Forster) on printed form ‘*Polyommatus* | (*Agrodiaetus*) | *carmon* ♂ | *cyanea* Stgr. | det. W. Forster 1947’ (on white paper).

cyprius Stichel, 1911

‘*Thestor romanovi cyprius* Stich., subsp. nov.’ Stichel, 1911: 76. Type locality: ‘Sehr local, auf Höhen von 3000–3500 m nächst Sultanabad.’ — Junior subjective synonym of *Thestor romanovi* Christoph, 1881 (Hesselbarth *et al.*, 1995: 506).

Syntypes ♂, ♀:

- ♂ with labels: cuttings from the proof-sheet of the original description ‘*Thestor romanovi cyprius* Stich. | ...larum omnium latiore a subspe...’ and ‘Sultanabad’ (on white paper, the text is on one side only, so that they are for sure cut out from a proof sheet), printed ‘Nachträgl. der | Coll. Püngeler | hinzugefügt.’ (on greyish paper) and printed ‘Typus’ (on red paper);

- ♀ with labels: printed 'Nachträgl. der | Coll. Püngeler | hinzugefügt.' (on greyish paper) and printed 'Typus' (on red paper).

The specimens are placed under a handwritten (Püngeler) drawer label 'Romanovi Chr.' (on white paper, in printed box).

***cytis* Christoph, 1877**

'*Lycaena Cytis* Chr.' Christoph, 1877: 234, Tab. 5, Figs 5, 6. Type locality: 'Ich finden, wie es scheint, sehr seltenen Schmetterling im Juli bei Schakuh... von 8 bis 10,000' Höhe'.

Syntypes ♂, ♀:

- ♂, ♀ with labels: handwritten (Püngeler) 'Hyrkania' (on white paper, in printed box), and handwritten (Püngeler) on printed form 'Cotype <underlined> | *Cytis* Chr. ♂ (♀) | von Stgr. | Püngeler' (on pink paper); male specimen with small handwritten (Christoph) date label '11/7' (recto white, verso green), female specimen with small square piece of white paper).

The specimens are placed under a handwritten (Püngeler) drawer label 'Cytis Chr.' (on white paper, in printed box).

***dagmara* Grum-Grshimailo, 1888**

'*Lycaena Dagmara* m.' Grum-Grshimailo, 1888: 306. Type locality: 'Darwaz'.

Syntypes ♂, ♀:

- ♂ with labels: handwritten (Staudinger) 'Dagmara | Gr. Gr. | Chingoe-darja | Darwas.' (on white paper), handwritten 'Darwas | [18]85 Gr.[um] Gr.[shimailo]' (on brown paper), handwritten (Grum-Grshimailo, in Russian) 'Tobi | dara.' (on white paper) and small handwritten (Grum-Grshimailo) date label '10.VI | [18]85.' (on white paper);
- ♀ with circle of brown locality label paper, handwritten (Grum-Grshimailo, in Russian) 'Tobi | dara.' (on white paper) and small handwritten (Grum-Grshimailo) date label '10.VI | [18]85.' (on white paper).

In evidence that these specimens, forwarded by Grum-Grshimailo to Staudinger, belong to the type series, a quotation from a subsequent publication by the author (redescription and type locality restriction) follows: ‘Je n’ai trouvé *Dagmara* qu’une seule fois, près du col Agwai-Polousak et en suite sur l’ancien “sai” du Khingoob-Darya, près de Tobi-Dara. De 7,000 à 5,500 p. (Commencement de Juin)’ (Groum-Grshimailo, 1890: 412–414, pl. 9, fig. 2a, 2b; see also Häuser & Eckweiler, 1997: 70).

The specimens are provided now with a printed label ‘*dagmara* | Grum-Grshimailo, 1888 | SYNTYPUS | Y. Nekrutenko det. 16.11.1998’ (on yellow paper).

***dama* Staudinger, 1892**

‘*Lycaena Dama* Stgr. n. sp.’ Staudinger, 1892a: 234. Type locality: ‘...wurde von Manissadjian Ende Juli bei Malatia in einer grössere Anzahl von ♂♂ und weniger ♀♀ entdeckt’.

Syntypes 6♂, 4♀:

- ♂ with labels: handwritten (Staudinger) ‘Dama | Stgr.’ (on white paper), handwritten ‘Malatia | [18]84 Man.[issadjian]’ (on yellow paper), printed ‘Origin.’ (on pink paper), printed ‘Zool. Mus. | Berlin’ (on pale yellow paper), printed, with handwritten (Wagener) insertions ‘Abgebildet in Hesselbarth | van Oorschot & Wagener: | Tagfalter der Türkei. | Tafel 118 Figur 29’ (on white paper);
- 5♂, 4♀ with circles of yellow locality label paper, printed ‘Origin.’ (on pink paper), some with small date labels, and printed ‘Zool. Mus. | Berlin’ (on pale yellow paper); one of the male specimens also has new handwritten labels ‘20.’ (on cross-lined notebook paper) and ‘dama’ (on white paper), one male specimen — handwritten label (Staudinger) ‘Dama | Stgr.’ (on white paper) and handwritten date label ‘25/7’ (on white faded paper), one female specimen — a handwritten label ‘21.’ (on cross-lined notebook paper), handwritten (Wagener) ‘*Lycaena dama* | Stgr. 1892 ♀ | Malatia 84 Man.’ (on white paper) and printed, with handwritten (Wagener) insertions ‘Abgebildet in Hesselbarth | van Oorschot & Wagener: | Tagfalter der Türkei. | Tafel 118 Figur 52 <recte: 49>’ (on white paper) —

Hesselbarth *et al.* (1995: 727, Taf. 118, Fig. 29, 49); cf. Häuser & Eckweiler (1997: 70–71), Eckweiler & Häuser (1997: 133, Pl. 3) and Olivier, De Prins, van der Poorten & Puplesiene (1999: 202–204).

***damonides* Staudinger, 1899**

'[*Lycaena*] *Damone* Ev. var. *Damonides*' Staudinger, 1899: 138. Type locality: 'In den Gebirgen Nordpersiens, besonders bei Hadschyabad und Schahkuh, sowie im südöstlichen Transcaucasien (bei Ordubad [Azerbaidjan, Naxçivan], auch bei Kasikoporan...'

Lectotype ♂:

- ♂ (abdomen missing) with labels: handwritten (Staudinger) 'v. Damonides | Stg.' (on white paper), handwritten 'Ordubat | Chr.[istoph]' (on green paper), handwritten (unknown hand) 'L. Iphigenia ? | Ordubad 10.6.[18]81' (on faded paper, the text strongly faded, almost invisible), printed 'Origin.' (on pink paper), printed 'Zool. Mus. | Berlin' (on pale yellow paper), handwritten (Forster) on printed form '*Agrodiaetus* | *poseidon* ♂ | *damonides* Stgr. det W. Forster 1948' (on white paper), handwritten (Forster) 'Cotypus | *Lycaena* | *damone* | *damonides* Stgr.' (on pink paper), handwritten (Forster) 'Lectotypus | *Lycaena* | *damone* | *damonides* Stgr. | W. Forster 1948' (on pink paper), printed, with handwritten (Wagener) insertions 'Abgebildet in Hesselbarth | van Oorschoot & Wagener: | Tagfalter der Türkei. | Tafel 121 Figur 67' (on white paper) — Forster (1961: 13); Hesselbarth *et al.* (1995: Taf. 121, Fig. 67); Häuser & Eckweiler (1997: 72); Eckweiler & Häuser (1997: 138, Pl. 5); Olivier, Puplesiene, van der Poorten, De Prins & Wiemers (1999: 15, Fig. 2).

Paralectotypes:

- 3♂, ♀ all with circles of green locality label paper, one male has also handwritten (unknown hand) label 'Ordub.[ad] 22.6.[18]81' (on faded paper, the text strongly faded, almost invisible) and printed 'Origin.' (on pink paper), one male — handwritten (unknown hand) label 'Ordub.[ad] 25.6.[18]81' (on faded paper, the text strongly faded, almost invisible), printed

‘Zool. Mus. | Berlin’ (on pale yellow paper), and two new labels: handwritten (Wagener) ‘*Lycaena damone damo-* | *nides* Stgr. 1899 | Ordubad’ (on white paper) and printed, with handwritten (Wagener) insertions ‘Abgebildet in Hesselbarth | van Oorschot & Wagener: | Tagfalter der Türkei. | Tafel 121 Figur 61’ (on white paper) (figured in Hesselbarth *et al.*, 1995: Taf. 121, Fig. 61, not ‘♀’ as stated in the legend); female specimen has handwritten (unknown hand) label ‘Ordub.[ad] 22.6.[18]81’ (on faded paper, the text strongly faded, almost illegible);

- ♀ with labels: handwritten (unknown hand) ‘Ordub.[ad] 10.6.[18]81’ (on faded paper, the text strongly faded, almost invisible), printed ‘Zool. Mus. | Berlin’ (on pale yellow paper), handwritten (Forster) on printed form ‘*Agrodiaetus* | *poseidon* ♀ | *damonides* Stgr. det W. Forster 1948’ (on white paper), handwritten (Forster) ‘Cotypus | *Lycaena* ♀ | *damone* | *damonides* Stgr.’ (on pink paper), printed, with handwritten (Wagener) insertions ‘Abgebildet in Hesselbarth | van Oorschot & Wagener: | Tagfalter der Türkei. | Tafel 121 Figur 66’ (on white paper) — Olivier, Puplesiene, van der Poorten, De Prins & Wiemers (1999: 16).

All above specimens are placed under a handwritten (Staudinger) drawer label ‘v. *Damonides* | Stgr.’ (on white paper).

***darius* Eckweiler & ten Hagen, 1998**

‘*Polyommatus (Agrodiaetus) darius* spec. nov.’ Eckweiler & ten Hagen, 1998: 110, Abb. 2–6. Type locality (holotype): ‘Iran, Tehran, Elburs, Demavend, Polur, 2400 m’.

Paratype ♂:

- ♂ with printed labels: ‘Iran, Tehran | Elburs, Demavend | Polur 2400 m | 18.VII.1997 | leg. W. ten Hagen’ (on white paper), ‘**Paratypus** | *Polyommatus (Agrodiaetus)* | ***darius*** spec. nov. | des. ECKWEILER & TEN HAGEN 1998’ (on bluish paper, in box).

***decolor* Staudinger, 1886**

‘*Lycaena Argiades* Pall. var. *Decolor* Stgr.’ Staudinger, 1886: 203. Type locality: ‘Aus dem Umgegend von Margelan...’

Syntypes 3♂, ♀:

- ♂ with labels: handwritten (Staudinger) 'var. Decolor | Stgr.' (on white paper), handwritten 'Margelan | Maur.[er] [18]83' (on brown paper) and printed 'Origin.' (on pink paper);
- 2♂, ♀ with circles of brown locality label paper and printed 'Origin.' (on pink paper).

***decolorata* Staudinger, 1886**

'*Lycaena Argiades* Pall. ... aberr. (eventuell auch var.) *Decolorata*.' Staudinger, 1886: 204. Type locality: '...aus Wien, Ungarn und von Bulgarien.'

Syntypes 3♂, 3♀:

- ♂ with labels: handwritten (Staudinger) 'ab. Decolorata | Stgr.' (on white paper), handwritten 'Wien' (on yellow paper) and printed 'Origin.' (on pink paper);
- ♂ with labels: handwritten 'Eperies | Dahlstr.' (on white paper) and printed 'Origin.' (on pink paper);
- ♂, ♀ with circles of white locality label paper and printed 'Origin.' (on pink paper);
- ♀ with labels: handwritten 'Balkan | Kr.[üper]' (on yellow paper) and printed 'Origin.' (on pink paper);
- ♀ with circle of white locality label paper and printed 'Origin.' (on pink paper).

***dentata* Staudinger, 1892**

'*Thestor Callimachus* var. *Dentata*' Staudinger, 1892a: 233. Type locality: 'bei Mardin.' — Junior subjective synonym of *Lycaena callimachus* Eversmann, 1848.

Syntypes 5♂, 5♀:

- ♂ with labels: handwritten (Staudinger) 'var. Dentata | Stgr.' (on white paper), handwritten 'Mardin | [18]91 Manis.[sadjian]' (on yellow paper) and printed 'Origin.' (on pink paper);
- 4♂, 5♀ with circles of yellow locality label paper and printed 'Origin.' (on pink paper); one male specimen also has a handwritten (Staudinger) label 'Callimachus | v. Dentata | Mardin.' (on white paper).

depuncta Hirschke, 1903

'*Lycaena Argiades* Pall. ab. (et var.) *depuncta*' Hirschke, 1903: 270. Type locality: '...in oberen Czernatal...' — Infrasubspecific.

Syntype ♂

- ♂ with labels: printed, with handwritten (Hirschke?) insertion 'Hirschke. Wien | Czernathal | V. 1901 | Type (recto) | *Depuncta Hirschke* | ♂ | von | H. Hirschke 3/04 (verso, Püngeler)' (on white paper, recto in printed box), handwritten 'alcetas' (on white paper, in pencil), handwritten (Püngeler) on printed form 'Cotype <underlined> | ab. *depuncta Hirschke* ♂ | 3.1904 vom Autor | Püngeler' (on pink paper).

The specimen is placed under a handwritten (Püngeler) drawer label 'Argiades Pall. | ab. *Depuncta Hirschke*' (on white paper, in printed box).

diana Miller, 1913

'*Lycaena diana* nov. sp.' Miller, 1913: 220. Type locality: 'L. diana fing ich im Kagysmanschen Bezirk zum grössten Teil in der Umgegend des Bergsee's Tschanglé, nördlich vom Arax. ... Die Höhe, in der sie leben, beträgt wie gesagt, etwa 1800–2000 m; Fangdatum bei Tschanglé 15.–17.VI.[1911]' (*op. cit.*: 221, 222).

'Syntypes' ♂, ♀:

- ♂ with labels: printed 'Kagyzman | 2500m <sic> Juni | Russ.[isch] Armen.[ien]' with handwritten (Püngeler) insertion on verso 'als *diana Miller* | ♂ 4/1912 von | B-Haas | Püng.[eler]' (on white paper), handwritten (Püngeler) on printed form 'Cotype <underlined> | *diana Miller* ♂ | von B-Haas | Püngeler' (on pink paper);
- ♀ with labels: printed 'Kagyzman | 2500m <sic> Juni | Russ.[isch] Armen.[ien]' with handwritten (Püngeler) insertion on verso 'als *diana Miller* ♀ | 4/1912 v.[on] B-Haas | Püng.[eler]' (on white paper), handwritten (Püngeler) on printed form 'Cotype <underlined> | *diana Miller* ♂ (♀) | von B-Haas | Püngeler' (on pink paper).

The lectotype was selected and designated from the type series unequivocally designated by Miller ('Vorliegendes Material 7 ♂

3 ♀') deposited now in Zoological Museum, Moscow University (Nekrutenko *in* Hesselbarth *et al.*, 1995: 655; cf. Antonova, 1981: 211). Up to the present, only 7 ♂ and 2 ♀ have been found. The forementioned specimens which Püngeler obtained from Bang-Haas may hardly belong to Miller's type series, and this doubt is clearly expressed on the labels.

difficillima Forster, 1956

'*Agrodiaetus transcaspica difficillima* ssp. nov.' Forster, 1956: 76, Taf. 10, Figs 5, 10, Taf. 11, Figs 5, 10. Type locality: 'Nordpersien, Schahkuh' (holotypus).

Paratypes 3 ♂, 3 ♀:

- ♂ with labels: handwritten (Staudinger) 'Damone var ?' (on white paper), handwritten 'Hadsch. ? | Hbhr. [Haberhauer]' (on yellow paper), printed '290.' (on white paper faded brown), handwritten (Forster) on printed form 'Para-Typus ♂ | *Agr.[odiaetus] transcaspica* | ssp. *difficillima* Forster | W. Forster München' (on pink paper);
- ♂ with labels: printed '314.' (on white paper faded brown), printed 'Origin.' (on pink paper), handwritten (Forster) on printed form 'Co-Typus ♂ | *Lycaena damone* | *iphidamon Staudinger*' (on pink paper), handwritten (Forster) on printed form 'Para-Typus ♂ | *Agr.[odiaetus] transcaspica* | ssp. *difficillima* Forster | W. Forster München' (on pink paper);
- ♀ with labels: handwritten 'Schaku | Chr.[istoph]' (on yellow paper), printed '289.' (on white paper faded brown), small date label '22/7' (recto white, verso green), a small piece of white paper, handwritten (Forster) on printed form 'Co-Typus ♀ | *Lycaena damone* | ssp. *damonides* Stgr.' (on pink paper), handwritten (Forster) on printed form 'Para-Typus ♀ | *Agrodiaetus trans- | caspica difficillima* | Forster | W. Forster München' (on pink paper);
- ♂, 2 ♀ with labels: printed, with handwritten insertions 'HYR-CANIA, (Schahkuh) | <male with handwritten date 25.7>' (on white paper, in box) and handwritten (Forster) on printed form 'Para-Typus ♂ (♀) | *Agr.[odiaetus] transcaspica* | ssp. *difficillima* Forster | W. Forster München' (on pink paper); female

specimens also have handwritten labels ‘transcaspica’ (on white cross-lined notebook paper).

***dilutior* Staudinger, 1881**

‘*Polyomm.[atus] Dimorphus* Stgr. n. sp. ... var *dilutior*’ Staudinger, 1881: 283. Type locality: ‘...bei Margelan (und, wie ich glaube, auch im Tianschen) kommt sie mit *Phoenicurus* zusammen (ob an anderen Lokalitäten fliegend?) vor’.

Lectotype ♂:

- ♂ (abdomen missing), with labels: handwritten ‘Margelan | Hbhr. [Haberhauer]’ (on brown paper), printed ‘Origin.’ (on pink paper), printed ‘ex collect. | Staudinger’ (on photographic paper) and printed ‘Zool. Mus. | Berlin’ (on pale yellow paper), handwritten (Nekrutenko) on printed form in box ‘Figurat | par Y. Nekrutenko in: | *Vestn. zool. 1984, 6: | tab. ex adv. p. 48*’ (on white paper), handwritten (Nekrutenko) ‘*dilutior* Stgr. | Lectotypus | Y. Nekrutenko design. | 10.IX.1983’ (on yellow paper) — Nekrutenko (1984: 45, pl. [1]).

Paralectotypes 5 ♂:

- 5 ♂ with circles of brown locality label paper and printed ‘Origin.’ (on pink paper).

***dimorphus* Staudinger, 1881**

‘*Polyomm.[atus] dimorphus*’ Staudinger, 1881: 282. Type locality: ‘Von dieser merkwürdigen Art sandte Haberhauer 6 Stück (1 ♂, 5 ♀) meist geflogen von Lepsa ein’.

Lectotype ♂:

- ♂ with labels: handwritten ‘Lepsa | Hbhr. [Haberhauer]’ (on brown paper), printed ‘Origin.’ (on pink paper, in box), printed ‘ex collect. | Staudinger’ (on photographic paper), printed ‘Zool. Mus. | Berlin’ (on yellow paper), handwritten (Nekrutenko) on printed form in box ‘Figurat | par Y. Nekrutenko in: | *Vestn. zool. 1984, 6: | tab. ex adv. p. 49*’ (on white paper), handwritten (Nekrutenko) ‘*dimorphus* Stgr. | Lectotypus | Y. Nekrutenko design. | 10.IX.1983’ (on yellow paper) — Nekrutenko (1984: 46, pl. [2]).

Paralectotypes 5 ♀:

- 5 ♀ with handwritten (Nekrutenko) labels 'dimorphus Stgr. | Paralectotypus | Y. Nekrutenko design. | 10.IX.1983' (on blue paper) — Nekrutenko (1984: 44).

***dobrogensis* Caradja, 1895**

'*Thestor Nogelii* HS. var. *Dobrogensis* Caradja' Caradja, 1895: 34. Type locality: Romania, Dobrogea, '...Ende Juni [1865] 2 Stunden von Tultscha auf Bergen an *Astragalus ponticus* geflügen (Mn. [Mann]).' — Junior subjective synonym of *Thecla Nogelii* Herrich-Schäffer, [1851] (Hesselbarth *et al.*, 1995: 510).

Syntypes 3 ♂, 2 ♀:

- ♂ with handwritten label 'Tultscha | Mn. [Mann]' (on yellow paper);
- ♀ with a circle of yellow locality label paper;
- 2 ♂ with labels: handwritten 'Tultscha' and printed 'Coll. Led.' (both on white paper);
- ♀ with printed label 'Coll. Led.' (on white paper).

As supportive evidence that these specimens belong to the type series, a quotation from the original description follows (Caradja, 1895: 1: 'Der rühmlichst bekannte Entomologe [Mn. = Joseph Mann – op. cit.: 6] giebt uns neben eingehender Schilderung der vor ihm besuchet Gegend eich reichhaltiges Verzeichniss der währen der Monate Mai, Juni und Juli [1865] bei Tultscha... Ein Theil dieser Thiere befindet sich im K. K. Hofmuseum zu Wien, ein anderer Theil derselben kam mit Lederer'schen Sammlung in der Besitz des Herrn Dr. Otto Staudinger').

The specimens are placed under a handwritten (Staudinger) drawer label 'v. Dobrogensis | Caradja | alle typen <sic>' (on white lined notebook paper); each provided now with a printed label: '*dobrogensis* | Caradja, 1895 | SYNTYPUS | Y. Nekrutenko det. 13.11.1998' (on yellow paper).

***dombaiensis* Alberti, 1969**

'*Lycaena anteros dombaiensis* nov. ssp.' Alberti, 1969: 197, Taf. 2, Fig. 1c. Type locality: '...am Tschutschchur-Paß (vereinfacht geschrieben Tschutschur-Paß) bei Dombai in Höhen von 2200–2900 m im Juli und August...'

Paratypes 4♂:

- 4♂ with labels: printed, with handwritten (Alberti) insertions 'N. W. Kaukasus | Dombai 2300 (2800) m | Tschutschur | 18. (20., 19/21) 7.1965 | leg. Alberti' (on white paper, in blue ball pencil, in box), handwritten (Alberti) on printed form 'ssp. ♂ | dombaiensis | det.<crossed out> B. Alberti (recto) | Paratypus (verso)' (on white paper, recto in box, handwritten text in blue ball pencil), printed 'Paratypus' (on red paper, in box).

dschagataicus O. Bang-Haas, 1915

'*Lycaena pheretiades dschagataicus* n. var. B.-H.' Bang-Haas, O., 1915: 101. Type locality: '... am Nordabhange des Karakorum, in den gebirgen südlich der Stadt Chotan (Chinesische Tatarei)...' (p. 93).

Types: not found.

duplicata A. Bang-Haas, 1910

'*Lycaena damone* v. *duplicata* n. v.' Bang-Haas, A., 1910: 30. Type locality: 'Aus dem Juldus-Gebiete 3 ♂♂'.

Syntypes 3♂:

- ♂ with labels: handwritten (O. Bang-Haas) 'L.[ycaena] Damone | v. Duplicata | BH.' (on white paper), handwritten (O. Bang-Haas) 'Lyc.[aena] Überg.[ang] zu | Damone | v. Melania Stg | nach Pgl. [Püngeler] 1/1 [19]09' (on white paper) printed 'Juldus' (on white paper) and handwritten 'Orig.' (on pink paper);
- 2♂ with labels: printed 'Juldus' (on white paper) and printed 'Origin.' (on pink paper) — cf. Häuser & Eckweiler (1997: 74).

egea Herrich-Schäffer, [1852]

'[*Lycaena*] *Egea* Friv.' Herrich-Schäffer, [1852] 6(55): 25–26; '*Lycaena Bavius*' [1847] 1(26): Tab. 74, Figs 357–360. Type locality: 'Aus der Türkei'.

Types: not found.

epidolus Herrich-Schäffer, [1843]

'*Lycaena Epidolus*' Herrich-Schäffer, [1843] 1(1): Tab. 4, Figs 18, 19; '[*Lycaena*] *Epidolus* Boisd.' [1844] 1(7): 114. Type locality: 'Bei Constantinopel. Von Herrn Frivaldszky und Herrn Keferstein erhalten.'— Junior primary homonym of *Lycaena epidolus* Boisduval, 1840; junior subjective synonym of *Lycaena menalcas* Freyer, 1837.

Types: not found (cf. Häuser & Eckweiler, 1997: 75).

erotides Staudinger, 1892

'*Lyc.[aena] Eros* O. var. *Erotides* Stgr.' Staudinger, 1892d: 319. Type locality: 'Die 13 vorliegenden ♂♂ vom Kentei...'

Syntypes 5♂:

- ♂ with labels: handwritten (Staudinger) 'v. Erotides | Stgr.' (on white paper), and 'Kentei | [18]89 Dörr.[ies]' (on green paper), printed 'Origin.' (on pink paper);
- 3♂ with circles of green locality label paper and printed label 'Origin.' (on pink paper);
- ♂ with labels: handwritten 'Mongol. | (Changai) (recto) | erotides ♂ | v.[om] Stgr. 4.1900 (verso)' (on white paper, recto in printed box) and handwritten (Püngeler) on printed form 'Cotype <underlined> | v. *erotides* Stgr. ♂ | vom Autor | Püngeler' (on pink paper).

The specimens are placed under a handwritten (Püngeler) drawer label 'Eros O. | v. Erotides Stgr.' (on white paper, in printed box).

erschoffii Lederer, 1869

'*Lycaena Erschoffii* Led.' Lederer, 1869: 80, Taf. 4, Figs 4, 5. Type locality: '...bei Astrabad in Persien...' (op. cit.: 73).

Syntypes 2♂, ♀:

- 2♂, ♀ with labels: handwritten 'Hadschyabad' (on white paper), printed 'Coll. Led.' (on white paper), printed 'Origin.' (on pink paper) and handwritten (Häuser) on printed form 'SYNTYPUS | *Lycaena* | *erschoffii* | LEDERER | det. Chr. L. Häuser | VI.[19]94' (on pink paper) — Häuser & Eckweiler (1997: 75).

***erythrea* Staudinger, 1892**

‘*Cigaritis Siphax* Luc. ab. (var.) *Erythrea* Stgr.’ Staudinger, 1892c: 280. Type locality: ‘von Collo (Provinz Constantine)’.

Syntypes 4 ♂, ♀:

- ♂ with labels: handwritten (Staudinger) ‘ab. (var.?) *Erythrea* | Stgr.’ (on white paper), handwritten ‘Collo | Seriz’ (on white paper) and printed ‘Origin.’ (on pink paper);
- 2 ♂, ♀ with circles of yellow locality label paper and printed label ‘Origin.’ (on pink paper),
- ♂ with labels: handwritten ‘Bône | [18]91 Vall.[?]’ and printed ‘Origin.’ (on pink paper).

***erzurumensis* Eckweiler & Hesselbarth, 1978**

‘*Agriades pyrenaicus erzurumensis* n. subsp.’ Eckweiler & Hesselbarth, 1978: 65, Abb. 1–4. Type locality (holotype): ‘Türkei, Prov. Erzurum: Palandöken Dağ, 2900–3100 m.’ — Junior subjective synonym of *Lycaena dardanus* Freyer, [1843] (Hesselbarth *et al.*, 1995: 622).

Paratypes 3 ♂:

- 3 ♂ with printed labels: ‘Türkei/Erzurum | Palandöken Dag | 2900-3100 <sic> m | 27.7-31.7.[19]77 | leg. Eckweiler’ (on white paper) and ‘Paratypus ♂ | *Agriades pyrenaicus* | ssp. *erzurumensis* | des. ECKWEILER et | HESSELBARTH 1978’ (on red paper).

***estonica* Hoyningen-Huene, 1883**

‘*Polyommatus [virgaureae]* var. *Estonica*’ Hoyningen-Huene, 1883: 49. Type locality: ‘Die var. *Estonica* fliegt in Esthland, unter 59½° nördl. Breite...’

Syntypes 4 ♂, 4 ♀:

- ♂ with labels: handwritten (Staudinger) ‘Var. *Estonica* | Huene’ (on white paper), printed ‘Estonia. | HUENE’ (on dirty-violet paper, in box) and circle of green paper;
- 3 ♂, 4 ♀ with same printed labels and circles of green paper.

Part of the type material was sent by the author through to Staudinger (and to S. Alphéraky) to get an advice before publishing a description (Hoyningen-Huene, 1883: 50).

The specimens are provided now with a printed label ‘*virgaureae estonica* Huene, 1883 | SYNTYPUS | Y. Nekrutenko det. 26.10.1998’ (on yellow paper).

***euphemia* Staudinger, 1887**

‘*Lycaena Euphemia* Stgr. (*Euphemus* Hb. var.?)’ Staudinger, 1887b: 142, 288, pl. 13, fig. 6. Type locality: ‘... von Raddefka (nur 2 ♂♂), Ussuri, Askold (nur 1 ♀) und von Sidemi in Korea und nördlich von Peking.’

Syntypes 5 ♂, 3 ♀:

- ♂ with labels: handwritten (Staudinger) ‘Euphemus var. | Euphemia Stgr.’ (on white paper), handwritten ‘Raddefskaja | Chr.[istoph].’ (on violet-blue paper), small date label ‘19/7’ and printed ‘Origin’ (on pink paper);
- ♂, ♀ with circles of violet-blue locality label paper and printed ‘Origin’ (on pink paper);
- ♀ with labels: handwritten ‘Askold | Dörr.[ies] [18]83’ (on violet-blue paper) and printed ‘Origin’ (on pink paper);
- ♂ with labels: handwritten ‘Sidemi | Jank.[owsky?]’ (on violet-blue paper) and printed ‘Origin’ (on pink paper);
- ♂, ♀ with circles of violet-blue locality label paper and printed ‘Origin’ (on pink paper);
- ♂ with labels: handwritten ‘Ussuri | Dörr.[ies] [18]82’ (on violet-blue paper) and printed ‘Origin’ (on pink paper);

***eversmanni* Staudinger, 1886**

‘*Lycaena Eversmanni* Stgr. n. sp.’ Staudinger, 1886: 205. Type locality: ‘...in den Gebirgen in einer Höhe von 1500—2000 Meter bei Margelan, Osch, Namangan und Samarkand im Juni und Juli vorzukommen’ (see also Forster, 1941: 70–73, Taf. 2, Figs 1, 2, Taf. 3, Figs 1, 2). — Junior primary homonym and junior objective synonym of *Lycaena eversmanni* Lang, 1884: 370; senior objective synonym of *Plebejus ardis* Bálint & Johnson, 1997: 14, **syn. n.**

Syntypes 12 ♂, 11 ♀:

- ♂ with labels: handwritten (Staudinger) ‘Eversmanni | Stgr.’ (on white paper), ‘Margelan | Hbhr. [Haberhauer]’ (on brown paper), and printed ‘Origin.’ (on pink paper);

- ♂ with labels: handwritten 'Namangan | Hbh. [Haberhauer] [18]84' (on brown paper) and printed 'Origin.' (on pink paper);
♂ with labels: handwritten 'Prov. Samarkand | Hbhr. [Haberhauer] [18]81' (on brown paper) and printed 'Origin.' (on pink paper);
♂ with labels: handwritten 'Alai | [18]85 H.[aberhauer]' (on brown paper) and printed 'Origin.' (on pink paper);
♂ with labels: handwritten 'Osch | Hbh. [Haberhauer] [18]82' (on brown paper) and printed 'Origin.' (on pink paper);
7♂, 11♀ with printed labels 'Origin.' (on pink paper) and circles of brown locality label paper, 2♂, ♀ also have handwritten labels '2000 [metres] | 4/6 [18]80' (on blue paper).

***fergana* Staudinger, 1881**

'*Lyc.[aena] Loewii* Z. var.? *Fergana* Stgr.' Staudinger, 1881: 262. Type locality: 'Die Stücke bei Margelan wurden von Ende Mai bis Juni gefangen.'

Syntypes 4♂, 5♀:

- ♂ with labels: handwritten 'Margelan | Hbhr. [Haberhauer]' (on brown paper) and printed 'Origin.' (on pink paper);
- 3♂, 4♀ with circles of the brown locality label paper and printed 'Origin.' (on pink paper);
- ♀ with labels: handwritten 'Saisan | Hbhr. [Haberhauer]' (on brown paper) and printed 'Origin.' (on pink paper);

Two of the male syntypes also have handwritten labels '08 9/61' and '30/5' (on blue paper).

***fervida* Staudinger, 1901**

'*Callophrys Rubi* L. v. (gen. aest ?) *Fervida* Stgr.' Staudinger, 1901: 70. Type locality: 'Ib.[erial] m.[eridionalis], Maur.[itania], As.[ia] min.[or].' — Junior subjective synonym of *Papilio rubi* Linnaeus, 1758.

Syntypes:

- The types were not designated by Staudinger; under a handwritten (Staudinger) drawer label 'v. *Fervida* | Stgr.', 22 male and female specimens are placed from different localities: from S. Spain to Central Asia.

firdussii Forster, 1956

'*Agrodiaetus damone firdussii* ssp. nov.' Forster, 1956: 58, Taf. 8, Figs 16, 17, Taf. 9, Figs 16, 17. Type locality (holotypus): 'Nordiran, Schahkuh, Westabhang, Geröllzone, 1800–2000 m'.

Paratypes ♂, 2 ♀:

- ♂, 2 ♀ with labels: printed, with handwritten insertions 'HYR-CANIA, (Schahkuh) [18]98 <in male>, 21.7.[1898], 14.7.[18]98 <in females>' (on white paper, in box) [leg. Funke – teste Forster, *l. cit.*: 58] and handwritten (Forster) on printed form 'Para-Typus ♂ (♀) | *Agrodiaetus damone* | *firdussii* Forster | W. Forster München' (on pink paper) — cf. Häuser & Eckweiler (1997: 77).

fortunata Staudinger, 1870

'*Lycaena Fortunata* nov. sp.' Staudinger, 1870a: 99. Type locality: 'Diese Art wurde von... Dr. Bauer... auf Teneriffa entdeckt. Dr. Bauer sammelte im Winter und Frühling 1864 auf Madeira und den Canarischen Inseln...' — Junior subjective synonym of *Polyommatus webbianus* Brullé, [1838] (Staudinger, 1901: 77).

Syntypes 2♂, ♀:

- ♂ with labels: handwritten (Staudinger) 'Teneriffa | Bauer' (on pale yellow paper) and printed 'Origin.' (on pink paper);
- ♂ with same handwritten (Staudinger) label;
- ♀ with circle of the pale yellow locality label paper and printed 'Origin.' (on pink paper).

The specimens are placed under a handwritten drawer label 'Webbianus | Brullé | Fortunata | Stgr.'; each provided now with a printed label '*fortunata* Staudinger, | 1870 | *webbianus* Brullé, [1838] | SYNTYPUS | Y. Nekrutenko det. 1.11.1998' (on yellow paper).

frivaldszkyi Lederer, 1855

'*Thecla Frivaldszkyi* Kindermann' Lederer, 1855a: 100, Taf. 1, Fig. 1. Type locality: 'Den Schmetterling fand Herr Kindermann auf Bergen in der Nähe von Ust-Buchtarminsk am 2. Juni kurz nach dem Schmelzen des Schnees; er erbeutete 15, meist geflogene Stücke und theilte mir ein Pärchen mit.'

Syntypes ♂, ♀:

- ♂ with labels: handwritten (Lederer?) 'Frivaldsz- | kyi Kind.[ermann] Led.[erer] | Sibiria occ. (recto) | Frivaldsz- | kyi (verso)' (on white paper, recto in printed box), printed 'Origin.' (on pink paper), 'Coll. Led.' (on white paper);
- ♀ with labels: handwritten (Kindermann) 'Altai' (on white paper), printed 'Origin.' (on pink paper), 'Coll. Led.' (on white paper).

galba Lederer, 1855

'*Lycaena Galba* Kollar' Lederer, 1855b: 190, Taf. 1 (not 2 as stated in the text), Fig. 4. Type locality: 'Ich erhielt nur 8 Stücke [Beirut]' — *l. c.*: 187.

Lectotype ♂:

- ♂ with labels: printed, in box 'Origin.' (on dirty-pink paper), printed 'Coll. Led.' (on white paper), handwritten (Lederer?) 'Beirut' (on white paper), printed 'Zool. Mus. | Berlin' (on pale-yellow paper), handwritten (Nekrutenko) label 'galba Lederer, 1855 | Lectotypus ♂ | Y. Nekrutenko design. | 7.XI.1983' (on yellow paper) — Nekrutenko (1984: 31, fig. 2, 1).

Paralectotypes 3 ♀:

- ♀ with same labels as lectotype and handwritten (Nekrutenko) 'galba Lederer, 1855 | Paralectotypus ♀ | Y. Nekrutenko design. | 1984' (on blue paper);
- 2 ♀ with same printed labels as lectotype, one with a handwritten label 'Beirut' (on white paper).

gamra Lederer, 1855

'*Lycaena Gamra* Kollar in lit.' Lederer, 1855b: 189, Taf. 1, Fig. 3. Type locality: '[Beirut]' — *l. c.*: 187. — Junior subjective synonym of *Lycaena jesous* Guérin, 1847 (Staudinger, 1901: 77).

Syntypes

- ? — ♀ with printed labels 'Coll. Led.' (on white paper) and 'Origin.' (on pink paper);
- ? — 2 ♂ with printed labels 'Coll. Led.' (on white paper);

- 2♂, 3♀ labelled 'Beirut | Zach'

Lederer (1855b: 189–190) does not mention the number of specimens he saw, but apparently he had material of both sexes that were collected 'im Juni und Juli auf Brombeerblüthen'. They were certainly taken by Franz Zach in 1854, who stayed in Beirut and collected in its neighbourhood from 22 July 1853 until early August 1854. Therefore the specimens collected by Zach are certainly syntypes.

gerhardi Staudinger, 1895

'*Thecla Acaciae* Fab. var. *Gerhardi* Stgr.' Staudinger, [1895]: 241. Type locality: '...bei Mardin und Aintab (nördliches Mesopotamien, ersteres auch zum südlichen Kurdistan gerechnet)...' — Junior subjective synonym of *Thecla abdominalis* Gerhard, [1850] (Hesselbarth *et al.*, 1995: 531).

Syntypes 5♂, 4♀:

- ♂ with labels: handwritten (Staudinger) 'var. Gerhardi | Stgr.' (on white yellowish lined notebook paper), handwritten 'Mardin | [18]92 Man[issadjian]' (on yellow paper) and printed 'Origin.' (on pink paper);
- 3♂, 2♀ with circles of yellow locality label paper and printed 'Origin.' (on pink paper), one male specimen also has a handwritten date label '24/5', one also a handwritten (Staudinger) label 'var. Gerhardi | Stgr.' (on white-yellowish lined notebook paper, with an insertion in pencil 'Mardin');
- ♀ with labels: handwritten (Staudinger) 'var. Gerhardi | Stgr.' (on white yellowish lined notebook paper), handwritten 'Mardin | [18]88 Sont.[?]' (on yellow paper) and printed 'Origin.' (on pink paper);
- ♀ with circle of yellow locality label paper and printed 'Origin.' (on pink paper);
- ♂ with labels: handwritten 'Aintab | [18]87 Man[issadjian]' (on yellow paper), handwritten date label '21/5' (on white paper) and printed 'Origin.' (on pink paper);
- ♂ with labels: handwritten (Püngeler) 'Mesopot.[amia] (recto) | acaciae var. | Gerhardi ♂ | von | A. Bang-Haas 1/[19]02 (verso)' (on white paper, recto in box), handwritten (Püngeler)

on printed form ‘Cotype <underlined> | v. *Gerhardi Stgr.* ♂ | von *Bang-Haas* | Püngeler’ (on pink paper);

- ♀ with labels: handwritten (Püngeler) ‘Mesopot.[amia] (recto) | v. *Gerhardi* ♀ | ex coll Deckert | 5/1902 v.[om] M. Bartel (verso)’ (on white paper), handwritten (Püngeler) on printed form ‘Cotype <underlined> | v. *Gerhardi Stgr.* ♀ | von *M. Bartel* | Püngeler’ (on pink paper).

The specimens are placed under a handwritten (Püngeler) drawer label ‘Acaciae F. | v. *Gerhardi Stgr.*’ (on white paper, in printed box).

***gigas* Staudinger, 1871**

‘*Lycaena Loewii* Z. v. *Gigas*’ Staudinger, 1871a: 10. Type locality: ‘Lyd.[iae] alp.[es]’ (restricted: ‘Im Taurus fing Lederer eine riesige Form dieser Art... und die ich in meinem Catalog als v. *Gigas* bezeichnete.’ — Staudinger, 1878: 234–235). — Junior subjective synonym of *Lycaena loewii loewii* Zeller, 1847 (Hesselbarth *et al.*, 1995: 613).

Syntypes 3♂, 2♀:

- ♂ with labels: handwritten (Staudinger) ‘Taurus | Ld. [Lederer]’ (on yellow paper) and printed ‘Origin.’ (on pink paper);
- ♀ with circle of yellow locality label paper and printed ‘Origin.’ (on pink paper);
- ♂ with labels: handwritten ‘Külek’ (on white paper) and printed: ‘Coll. Led.’ (on white paper) and ‘Origin.’ (on pink paper);
- ♂, ♀ with labels: handwritten ‘Syrien’ (on white paper) and printed: ‘Coll. Led.’ (on white paper) and ‘Origin.’ (on pink paper).

***gisela* Püngeler, 1901**

‘*Lycaena gisela* n. sp.’ Püngeler, 1901: 180, Taf. 2, Fig. 12, 12a, 12b. Type locality: not stated: ‘Ausgangspunkt war die unter 41° 7’ nördl. Breite und 80° 81’ östl. L. v. Gr. gelegene Stadt Aksu...’

Syntypes 4♂, 4♀:

- ♂ with labels: printed, with handwritten (Püngeler) insertion ‘Ost-Turkestan | (Aksu) | *Rückbeil 1900*’ (on white paper) and

handwritten (Püngeler) on printed form ‘Type <double underlined> | *gisela Püng.* ♂ | *abgebildet Iris 1901* | *Püngeler*’ (on pink paper);

- 3 ♂, 4 ♀ with labels: printed, with handwritten (Püngeler) insertion ‘Ost-Turkestan | (Aksu) | *Rückbeil 1900*’ (on white paper) and handwritten (Püngeler) on printed form ‘Cotype <underlined> | *gisela Püng.* ♂ (♀) | *Püngeler*’ (on pink paper).

The specimens are placed under a handwritten (Püngeler) drawer label ‘Gisela Püng.’ (on white paper, in box); the holotype designation (as ‘Type’) has not been published.

***glaucias* Lederer, 1870**

‘*Lycaena Glaucias* Led.’ Lederer, 1870b: 10, Taf. 1, Figs 6, 7). Type locality: ‘...bei Astrabad in Persien... ..in 8000 Fuss Höhe das kleine, nur im Sommer von Hirten bewohnte Dorf Hadschyabad’ (*op. cit.*: 4); ‘Nur 7 Stücke erhalten.’

Syntypes 3 ♂, ♀:

- ♂ with labels: handwritten (Lederer) ‘*Glaucias* | m.[ihi]’ (on white paper, in printed box), and ‘Hadschyabad’ (on white paper), printed ‘Coll. Led.’ (on white paper) and ‘Origin.’ (on pink paper);
- 2 ♂, ♀ with labels: handwritten ‘Hadschyabad’ (on white paper), one male with printed ‘Coll. Led.’ (on white paper), all with printed labels ‘Origin.’ (on pink paper) — cf. Häuser & Eckweiler (1997: 79).

***grumi* Staudinger, 1901**

‘*Lycaena F. Eversmanni* Stgr. v. ? *Grumi* Stgr.’ Staudinger, 1901: 79. Type locality: ‘Transalai (sec.[undum] Maurer)’ (see also Forster, 1941: 72–73, Taf. 2, Figs 6–8, Taf. 3, Figs 6–8).

Syntypes 4 ♂, 3 ♀

- ♂ with labels: handwritten (Staudinger) ‘v.? *Grumi* | Stgr.’ (on white paper), ‘Transalai | Pamir? | [18]88 Maur.[er]’ (on brown paper), and printed ‘Origin.’ (on pink paper);
- 3 ♂, 3 ♀ with circles of brown locality label paper and printed label ‘Origin.’ (on pink paper).

***haberhaueri* Staudinger, 1886**

'*Lyc.[aena] Sieversii* Chr. var. *Haberhaueri* Stgr.' Staudinger, 1886: 206. Type locality: '...Ende Mai bei Namangan wie Samarkand in Anzahl gefangen.'

Syntypes 9♂, 8♀:

- ♂ with labels: handwritten (Staudinger) 'Sieversii var.? | Haberhaueri | Stgr.' (on white paper), 'Namangan | Hbhr. [Haberhauer] [18]84' (on brown paper) and printed 'Origin.' (on pink paper);
- 6♂, 6♀ with circles of brown locality label paper and printed label 'Origin.' (on pink paper); one of the male specimens also has a small handwritten date label '24/5' (on white paper); one of the male specimens also has a handwritten (Staudinger) label 'Sieversii var.? | Haberhaueri | Stgr.' with insertion in pencil 'Namangan' (on white paper);
- ♂ with labels: 'Prov. Samark.[and] | Hbhr. [Haberhauer] [18]81' (on brown paper) and printed 'Origin.' (on pink paper);
- ♂, 2♀ with circles of brown locality label paper and printed label 'Origin.' (on pink paper).

***helena* Staudinger, 1862**

'*Lycaena Helena*' Staudinger, 1862: 265. Type locality: '...liegt mir in fünf, theilweise gut erhaltenen Paaren vom Taygetos-Gebirge, aus dem südlichen Theil des Peloponnes vor, wo sie Anfangs Juni in einer Höhe von etwa 6–7000' durch Dr. Krüper erbeutet wurde'.

Syntypes ♂, 2♀:

- ♂ with labels: handwritten 'Taygetos | Kr.[über]' (on yellow paper) and printed 'Origin.' (on pink paper);
- 2♀ with circles of yellow locality label paper and printed label 'Origin.' (on pink paper); one has a small date label '1/6'.

The specimens are placed under a handwritten drawer label 'Helena | Stgr.' (on white paper, in box).

helius Herrich-Schäffer, [1852]

‘[*Polyommatus*] *Helius* Kad.’ Herrich-Schäffer, [1852] 6(55): 32. Type locality: ‘Aus Kleinasien.’ — Junior objective synonym of *Polyommatus asabinus* Herrich-Schäffer, [1851] (see above).

Types: not found.

heringi Kardakoff, 1928

‘*Cyaniris argiolus* L. *heringi* (gen. aest. nov.)’ Kardakoff, 1928: 272, Taf. 7, Figs 20, 21. Type locality: ‘...ich sammelte ihn hauptsächlich in der Umgegend von Wladiwostok im 2/2 V. [second half of May].’ — Infrasubspecific.

Syntypes 2♂, 2♀:

- ♂, ♀ with labels: printed, with handwritten insertion ‘Wladiwostok | S. Ussurigebiet | 7.V. (15.V. in female)1921 (N. Kardakoff’ (on white paper), handwritten (Kardakoff?) ‘*Cyaniris argiolus* L. | v. *heringi* Kardakoff’ (on white paper) and printed ‘Typus’ (on red paper, in box) — these male and female specimens are figured in Kardakoff (1928: Taf. 7, Fig. 20 and 21 respectively);
- ♂, ♀ with labels: printed, with handwritten insertion ‘Wladiwostok | S. Ussurigebiet | 10.V. (21.V. in female)1921 (N. Kardakoff’ (on white paper), handwritten (Kardakoff?) ‘*Cyaniris argiolus* L. | g. v. *heringi* Kard. | ded.<?> N. Kardakoff’ (on white paper), printed ‘Nachträgl. der | Coll. Püngeler | hinzugefügt’ (on greyish paper) and printed ‘Cotypus’ (on red paper, in box).

hispana Herrich-Schäffer, [1851]

‘[*Lycaena*] *Corydon* var. *Hispana*’ Herrich-Schäffer, [1851] 1(49): Tab. 104, Figs 500–501; [1852] 6(55): 27. Type locality: ‘Exemplare aus Spanien sind auffallend klein und lebhaft gefarbt.’

‘Lectotype’ ♂:

- ♂ with labels: handwritten ‘hispana’ (on white paper, in ball pencil), printed ‘Coll. Led.’ (on white paper), printed ‘Zool. Mus. | Berlin’ (on pale yellow paper), handwritten (Schurian) on printed lined form ‘*Polyommatus* | (*Lysandra*) | *hispanus* H.-S. 1852 | det. Schurian 1988’ (on white paper), handwritten

(Schurian) on printed form ‘Gen. Präparat | Nr. 206/1984 | Schurian’ (on white paper), handwritten (Schurian) on printed form ‘Lectotypus ♂ | *Lycaena hispana* | H.-S. | (1852) | teste. SCHURIAN, 1984’ and ‘Lectotypus ♂ <written over printed ‘Paratypus’> | [*Lycaena*] | *corydon hispana* | H.-S. 1852 | design. Schurian, 1988’ (on red paper, in box) — Schurian (1988: 132).

‘Paralectotypes’ 3 ♂:

- ♂ with labels: handwritten ‘hispana’ (on white paper, in ball pencil), handwritten (Staudinger) ‘Barcelona’ (on bluish-green paper), printed ‘Zool. Mus. | Berlin’ (on pale yellow paper), handwritten (Schurian) on printed lined form ‘*Paralectotypus* ♂ | [*Lycaena*] | *corydon hispana* | H.-S. 1852 | det. Schurian 1988’ (on white paper), handwritten (Schurian) on printed form ‘Gen. Präparat | Nr. 207/1984 | Schurian’ (on white paper), handwritten (Schurian) on printed form ‘*Para-* | Lectotypus ♂ | *Lysandra hispana* H.-S. | (1852) | teste. SCHURIAN, 1984’ (on red paper);
- 2 ♂ with circles of bluish-green locality label paper and handwritten (Schurian) labels on printed lined form ‘*Paralectotypus* ♂ | [*Lycaena*] | *corydon hispana* | H.-S. 1852 | det. Schurian 1988’ (on white paper) — Schurian (1988: 133).

The paper of Schurian (*op. cit.*) contains no evidence that a lectotype (and paralectotypes) have been selected from Herrich-Schäffer’s syntypes. — The lectotype designation is unavailable and the specimen designated as such by Schurian (1988: 132) loses its status of lectotype (ICZN Art. 74.2).

***hopfferi* Herrich-Schäffer, [1851]**

‘[*Lycaena*] *Hopfferi*’ Herrich-Schäffer, [1851] 1(49): Tab. 107, Figs 512–514; [1851] 6(48): 24. Type locality: ‘Aus Kleinasien; von Herr Kindermann’.

Syntypes ♂, ♀:

- ♂ with labels: handwritten ‘Hopfferi | Kind.[ermann] ms. HSch. f | 512–14. Gerh. t. 21. f. 2 | Amasia Kind[ermann]’ (recto yellow, in printed box, verso white), printed ‘4721’ (on white paper);

- ♀ without any label.

Catalogus Generalis: 4721 — see Appendix; cf. Häuser & Eckweiler (1997: 80).

The specimens are provided now with a printed label ‘*hopfferi* Herrich-Schäffer, [1851] | SYNTYPUS | Y. Nekrutenko det. 30.11.1998’ (on yellow paper).

***hunza* Groum-Grshimailo, 1890**

‘*Lycaena Hunza* Gr. Gr.’ Groum-Grshimailo, 1890: 397, pl. 15, fig. 2. Type locality: ‘La *Lyc. Hunza* vole tout le long de la rivière Mazar, qui prend sa source dans les monts Moustag (Himalaya occidentale), sur le col Beïk et un peu au-dessous de celui-ci dans les monts Kounjout (là elle est moins typique). Altitude de 12,700 p. (Kourgan-Goudjabaï et l’embouchure du Mazar), à 15,500 p. (Beïk). ... Juin et commencement de Juillet.’

Syntypes ♂, ♀:

- ♂ with labels: handwritten (Groum-Grshimailo, in Russian) ‘Ak Su’ | 20.7.[18]87’ (on white paper), printed ‘Transalai’ (on white paper faded yellow, in box), printed ‘Grumm-Grsh.’ (on white paper, in box), handwritten (Püngeler) ‘hunza ♂ | Cotype <underlined> | 11./[19]09 ex coll. | Dieckmann’ (on white paper) and handwritten (Püngeler) on printed form ‘Cotype <underlined> | hunza Gr.Gr. ♂ | Püngeler’ (on pink paper);
- ♀ with labels: handwritten ‘185’ (on white paper), printed ‘Transalai’ (on white paper faded yellow, in box), printed ‘Grumm-Grsh.’ (on white paper, in box), handwritten (Püngeler) ‘hunza ♀ | Cotype <underlined>, 11./[19]09 | ex coll. | Dieckmann’ (on white paper) and handwritten (Püngeler) on printed form ‘Cotype <underlined> | hunza Gr.Gr. ♀ | Püngeler’ (on pink paper).

The specimens are placed under a handwritten (Püngeler) drawer label ‘Stoliczkana Feld. | v. Hunza Gr. Gr.’ (on white paper, in printed box).

***hyacinthus* Herrich-Schäffer, [1847]**

‘*Lycaena Hyacinthus*’ Herrich-Schäffer, [1847] 1(26): Tab. 72, Figs 345–348; [1852] 6(55): 29. Type locality: ‘Aus der Türkei’.

Types: not found.

hyrcana Lederer, 1869

'*Lycaena Hyrcana* Led.' Lederer, 1869: 78, Taf. 4, Figs 6, 7. Type locality: '...bei Astrabad in Persien...' (*op. cit.*: 73). — Junior primary homonym of *Lycaena hyrcana* Felder, 1860; replacement name: *Cupido morgiana* Kirby, 1871: 369.

Lectotype ♂:

- ♂ with labels: handwritten 'Lycaena | Hyrcana' (on white paper), 'Hadschyabad' (on white paper), printed 'Origin.' (on pink paper), printed 'Coll. Led.' (on white paper), handwritten (Nekrutenko) on printed form 'LECTOTYPUS ♂ | *hyrcana* Led. | Y. Nekrutenko design.' (on yellow paper) — Nekrutenko in Hesselbarth *et. al.* (1995: 612).

Paralectotypes ♂, 3 ♀:

- ♂, 3 ♀ with same handwritten locality label 'Hadschyabad' and printed 'Origin' (on pink paper), one paralectotype female with printed 'Coll. Led.' (on white paper) but without locality label, handwritten (Nekrutenko) on printed form 'PARALECTOTYPUS ♂ (♀) | *hyrcana* Led. | Y. Nekrutenko design.' (on yellow paper).

hyrcana Neuburger, 1903

'*Chrysophanus ochimus* H.-S. var. *hyrcana* ♂ Neubgr.' Neuburger, 1903: 59. Type locality: 'Habitat: Hyrcania (Persia septentr.)'.

Syntype ♂:

- ♂ with labels: handwritten 'Persia | ♂' (on white paper faded yellow), handwritten (Püngeler) 'Chrysophanus | ochimus | v. *hyrcana* Neubgr.' (on white paper), a small square piece of white paper, printed 'Type' (on red paper).

iberica Staudinger, 1901

'*Zephyrus* Dalm. *Quercus* L. v. *Iberica* Stgr.' Staudinger, 1901: 71. Type locality: 'Ib.[eria] c.[entralis] et m.[eridionalis], Maur.[itania]'.

Syntypes 2 ♂, 2 ♀:

- ♂ with labels: handwritten (Staudinger) 'Quercus var. | Iberica | Stgr.' (verso), (on white paper), handwritten 'Sn. Ildef.[onso] |

18[84] m.[ihi]' (on pale green paper) and small date label '27/7' (on white strongly faded brownish paper);

- ♂, 2 ♀ with circles of yellow locality label paper and small date labels '10/7' (♂), '25/7' and '28/7'.

Likewise most of the Staudinger species-group taxa becoming available after his death in 1900 (i. e. in Staudinger, 1901), the type specimens were not designated with characteristic 'Origin.' labels. As may be seen from the original description, the type locality statement was pretty broad, so that all forementioned specimens are labelled such as to fit Staudinger's meaning of the '*terra typica*' to constitute a syntype series.

The specimens are provided now with a printed label '*iberica* Staudinger, 1901 | SYNTYPUS | Y. Nekrutenko det. 30.11.1998' (on yellow paper).

***ignitus* Herrich-Schäffer, [1846]**

'*Polyomm.[atus] ignitus* Bisch.' Herrich-Schäffer, [1846] 1(13): 163. [1846] 1(14): Tab. 69, Fig. 332; Type locality: 'Von Hrn. Wagner, von der Südseite des Ararat.' — Junior subjective synonym of *Polyommatus thetis* Klug, 1834 (Staudinger, 1871a: 8; 1901: 72).

Types: not found.

***ignorata* Staudinger, 1901**

'*Lycaena F. Meleager* Esp. v. *Ignorata* Stgr. (Versicolor Stgr. in l.)' Staudinger, 1901: 86. Type locality: 'Taur.[us] m.[eridionalis] or.[ientalis] (Akbes).' — Junior subjective synonym of *Lycaena meleager versicolor* Heyne, [1895] (Hesselbarth *et al.*, 1995: 687).

Syntypes 6 ♂, 4 ♀:

- ♂ with labels: handwritten (Staudinger) 'v. Ignorata | Stgr. | Versicolor in l. (recto) | v. Versicolor | Stgr. in l. (verso)' (on white paper), handwritten 'Eibes | 18[94] Man.[issadjian]' (on yellow paper) and printed 'Origin.' (on pink paper);
- ♂ with circle of yellow locality label paper, small date label '11/6' and printed label 'Origin.' (on pink paper);
- ♂ with labels: handwritten 'Eibes | 18[94] Haradj.[?]' (on yellow paper) and printed 'Origin.' (on pink paper);

- 2♂ with circles of yellow locality label paper and printed label 'Origin.' (on pink paper);
- 4♀ with circles of yellow locality label paper and printed label 'Origin.' (on pink paper), one has a small date label '17/8';
- ♂ with labels: handwritten 'Asia min. | (Hadjin <sic> | Funke [18]91' (on white paper, in printed box) and handwritten (Püngeler) on printed form 'Cotype <underlined> | v. *ignorata* Stgr. ♂ | vom Autor | Püngeler' (on pink paper).

***iliensis* Staudinger, 1886**

'Pol.[yommatu] *Phoenicurus* Led. var. *Iliensis* Stgr.' Staudinger, 1886: 203. Type locality: '...vom Kuldja-District...' (see also Rühl *in* Rühl & Heyne, [1893]: 207).

Lectotype ♂:

- ♂ with labels: brown paper circle, printed 'Origin.' (on pink paper), printed 'ex collect. | Staudinger' (on photographic paper) and printed 'Zool. Mus. | Berlin' (on pale yellow paper), handwritten (Nekrutenko) on printed form in box 'Figurat | par Y. Nekrutenko in: | *Vestn. zool. 1984, 6: | tab. ex adv. p. 49*' (on white paper), handwritten (Nekrutenko) label '*iliensis* Stgr. | Lectotypus | Y. Nekrutenko design. | 10.IX.1983' (on yellow paper) — Nekrutenko (1984: 47, pl. [2]).

Paralectotypes 6♂, 2♀:

- ♂ with labels: handwritten (Staudinger) 'var. *Iliensis* | Stgr.' (on white paper), handwritten 'Kuldja | 85 Rckbl. [Rückbeil]' (on brown paper), printed 'Origin' (on pink paper);
- ♂, 2♀ with circles of brown locality label paper and printed 'Origin.' (on pink paper);
- ♂ with labels: handwritten (Staudinger) '*Phoenicurus* var. | *Iliensis* | Stgr.' (on white paper), handwritten 'Kuldja | Alph.[éraky]' (on brown paper), handwritten (Alphéraky) date label '13/5' (on white paper, in pencil) and printed 'Origin' (on pink paper);
- 3♂ with circles of brown locality label paper and printed 'Origin.' (on pink paper); one has also handwritten (Alphéraky) date label '13/5' (on white paper, in pencil).

iphicarmon Eckweiler & Rose, 1993

'*Polyommatus (Agrodiaetus) iphigenia iphicarmon* ssp. nov.' Eckweiler & Rose, 1993: 360, Abb. 13–19. Type locality (holotype): 'Türkei, Isparta, Eğridir, Aksu, Dedegöl Dağ, 1500–1800 m'.

Paratypes 2♂:

- 2♂ with printed labels: 'Türkei, Isparta | Eğridir/Aksu | Dedegöl Dağ | 1500-1800 m | 23.-25.VII.1991 | leg. Eckweiler' (on white paper) and '**Paratypus** ♂ | *Polyommatus (Agrodiaetus)* | *iphigenia iphicarmon* | ECKWEILER & ROSE 1993' (on red paper) — see also Häuser & Eckweiler (1997: 81); Eckweiler & Häuser (1997: Pl. 8).

iphicles Staudinger, 1886

'*Lyc.[aena] Iphicles* Stgr.' Staudinger, 1886: 227. Type locality: '...(Haberhauer sandte sie mir als Jolas), erhielt ich nur 3 im Alai (am 13. Juni) gefangene ♂, ein am 10. Juni bei Osch gefangenes ♂ und 2 am 6. Juli bei Samarkand (in den Gebirgen) gefangene ♀.' — Junior subjective synonym of *Lycaena gigantea* Groum-Grshimailo, 1885 (Staudinger, 1901: 88).

Syntypes 4♂, 2♀:

- ♂ with labels: handwritten (Staudinger) 'Iphicles | Stgr.' (on white paper), handwritten 'Alai | [18]85 Hbhr. [Haberhauer]' (on brown paper), printed 'Origin.' (on pink paper);
- 2♂ with circles of brown locality label paper and printed label 'Origin.' (on pink paper); one of them has a handwritten (Haberhauer?) label 'Iolas 16/6' (on white faded paper, in violet ink) — see *Type locality* section above;
- ♂ with labels: handwritten 'Osch | Hbhr. [Haberhauer]' (on brown paper), handwritten '32.', handwritten date label '10/6' and printed 'Origin.' (on pink paper);
- ♀ with labels: handwritten 'Prov. Samark.[and] | Hbhr. [Haberhauer] [18]81' (on brown paper), and printed 'Origin.' (on pink paper);
- ♀ with circle of brown locality label paper, small date label '6/7' (on white paper, in pencil) and printed label 'Origin.' (on pink paper).

iphidamon Staudinger, 1899

‘[*Lycaena*] *Damone* Ev. var. *Iphidamon*’ Staudinger, 1899: 144. Type locality: ‘bei Stücken aus Nord-Persien’; restricted by the lectotype designation: ‘Schakuh’.

Lectotype ♂:

- ♂ (abdomen missing), with labels: handwritten ‘Schakuh | Chr.[istoph]’ (on yellow paper), a circle of green paper, printed ‘315.’ (on white paper faded brown), handwritten (Forster) on printed form ‘*Lecto-Typus* ♂ | *Polyommatus iphigenia* | *iphidamon* Stgr. | W. Forster München’ (on pink paper) — Forster (1960: 118); Häuser & Eckweiler (1997: 81); Eckweiler & Häuser, 1997: Pl. 8).

Paralectotypes 8♂, 2♀:

- ♂ with labels: handwritten ‘Hadsch. | Chr.[istoph]’ (on yellow paper), date label ‘26/6’ (on dark-green paper) printed ‘316.’ (on white paper faded brown), handwritten (Forster) ‘*Cotypus* ♂ | *Lycaena damone* Ev. | *iphidamon* Stgr.’ (on pink paper);
- ♂ with a circle of yellow locality label paper and printed ‘Origin.’ (on pink paper);
- ♂ with labels: handwritten ‘Schakuh | Chr.[istoph]’ (on yellow paper), printed ‘311.’ (on white paper faded brown), handwritten (Forster) on printed form ‘*Polyommatus* | (*Agrodiaetus*) ♂ | *iphigenia* | *iphidamon* Stgr. | det. W. Forster 1947’ (on white paper);
- ♀ with labels: handwritten ‘Astrabad’ (on white paper), printed ‘312.’ (on white paper faded brown), printed, with handwritten insertion ‘Coll. Led. | *Iphigenia*’ (on white paper), handwritten (Forster) on printed form ‘*Polyommatus* | (*Agrodiaetus*) ♀ | *iphigenia* | *iphidamon* Stgr. | det. W. Forster 1947’ (on white paper);
- ♂ (abdomen missing), with labels: handwritten ‘Hadsch. | Hbhr. [Haberhauer]’ (on yellow paper), printed ‘317.’ (on white paper faded brown), printed ‘Origin.’ (on pink paper), handwritten (Forster) ‘*Cotypus* ♂ | *Lycaena damone* Ev. | *iphidamon* Stgr.’ (on pink paper);

- ♂ with labels: handwritten 'Astrabad' (on white paper), printed '310.' (on white paper faded brown), printed 'Coll. Led.' with insertion 'Damon' (on white paper), printed 'Origin.' (on pink paper), handwritten (Forster) 'Cotypus ♂ | *Lycaena damone* Ev. | *iphidamon* Stgr.' (on pink paper);
- ♂ with labels: handwritten 'Hyrkania | Chr.[istoph]' (on yellow paper), printed 'Origin.' (on pink paper), printed '309.' (on white paper faded brown), handwritten (Forster) 'Cotypus | *Lycaena | damone | iphidamon* Stgr.' (on pink paper);
- ♀ with labels: with a circle of yellow locality label, small date label '1/6' (on white paper), small date label '17/6' (on white paper faded brown), printed '313.' (on white paper faded brown), printed 'Origin.' (on pink paper), handwritten (Forster) 'Cotypus ♂ <sic> | *Lycaena damone* | Ev. | *iphidamon* Stgr.' (on pink paper), handwritten (Forster) on printed form 'Ne- Allostypus <corrected Type>, ♀ | *Polyommatus (Agrodiaetus) | iphigenia iphidamon* | Stgr. | W. Forster München' (on pink paper);
- 2♂, one with labels: handwritten 'Hadschyabad' (on white paper), printed, with handwritten insertion 'Coll. Led. | *Iphigenia*' and printed 'Origin.' (on pink paper), another with a circle of yellow locality label paper and printed 'Origin.' (on pink paper) is placed at the series end under a handwritten (Staudinger) drawer label 'ab. Transcaspica | Stgr.' (on white paper).

iphigenia Herrich-Schäffer, [1847]

'*Lycaena Iphigenia* Friv.[aldszky]' Herrich-Schäffer, [1847] 1(26): Tab. 73, Fig. 354; [1851] 6(48): 24. Type locality: 'Aus der Türkei'.

Syntypes 2♂, 2♀:

- ♂ with labels: handwritten 'Iphigenia | Friv.[aldszky] HSch. f. 354 | Gerh.[ard] | t. 20. f. 2. Frey.[er] | Constantinop.[el] Friv.[aldszky]' (on white paper, in printed box) and printed '4724' (on white paper);
- ♂, 2♀ without any label.

Catalogus Generalis: 4724 — see Appendix; cf. Häuser & Eckweiler (1997: 81).

The specimens are provided now with a printed label '*iphigenia* Herrich-Schäffer, [1847] | SYNTYPUS | Y. Nekrutenko det. 11.12.1998' (on yellow paper).

iphigenides Staudinger, 1886

'*Lyc.[aena] Kindermanni* Ld. ... var. *Iphigenides* Stgr.' Staudinger, 1886: 213. Type locality: 'nur 4 reine ♂ erhielt, von denen 3 Ende Mai bei Namangan, das vierte in den Gebirgen bei Margelan gefunden ist'; restricted by the lectotype designation: Namangan.

Lectotype ♂:

- ♂ with labels: handwritten (Staudinger) 'var. *Iphigenides* | Stgr.' (on white paper), handwritten 'Namangan | Hbhr. [Haberhauer] [18]84' (on brown paper), printed 'Origin.' (on pink paper), handwritten (Forster) on printed form 'Lectotypus ♂ | *Polyommatus (Agrodiaetus)* | *iphigenia iphigenides* Stgr. | W. Forster München' (on pink paper) — Forster (1960: 122); Häuser & Eckweiler (1997: 82).

Paralectotypes 3 ♂:

- ♂ with labels: handwritten 'Margelan | Maur.[er] [18]84' (on brown paper) and printed 'Origin.' (on pink paper);
- ♂ with labels: a circle of locality label brown paper, printed 'Origin.' (on pink paper) handwritten (Forster) 'Cotypus ♂ | *Lycaena kinder- | manni* | var. *iphigenides* | Stgr.' (on pink paper), handwritten (Forster) on printed form '*Polyommatus* | (*Agrodiaetus*) | *iphigenia* | *iphigenides* Stgr. | det. W. Forster 1947' (on white paper).

iris Staudinger, 1886

'*Lyc.[aena] Iris* Stgr.' Staudinger, 1886: 207. Type locality: 'aus den Gebirgen bei Margelan und Samarkand, wo sie im Juli gefanden wurde.' — Junior primary homonym and junior objective synonym of *Lycaena iris* H. C. Lang, 1884; replacement name *Polyommatus neoiris* Tshkolovets (1997a: 139) is a junior objective synonym of *Lycaena iris* H. C. Lang, 1884.

Syntypes 9 ♂, 3 ♀:

- ♂ with labels: handwritten (Staudinger) 'Iris | Stgr.' (on white paper), 'Margelan | Hbhr. [Haberhauer]' (on brown paper) and '8/7' (on white paper) and printed 'Origin.' (on pink paper);

- 3♂ with handwritten date labels, '10/7 [18]80', '16/7', '12/7' (on white paper) and printed 'Origin.' (on pink paper);
- ♀ with circle brown locality label paper and printed label 'Origin.' (on pink paper);
- ♂ with labels: handwritten 'Prov. Samark.[and] | Hbhr. [Haberhauer] [18]81' (on brown paper), small handwritten date label '20/7' (on white paper) and printed 'Origin.' (on pink paper);
- 4♂, 2♀ with circles of brown locality label paper, printed label 'Origin.' (on pink paper), and some with small date labels '12/V', '6/5' (on white paper), (figured in Tshikolovets, 1997a: 139, 238, pl. 40, figs 15(17; 1997b: 37, figs 7–10); one male specimen also has a handwritten (Staudinger) label 'Iris' (on white paper).

isaurica Staudinger, 1871

'*Lycaena Isaurica* Lederer in coll.' Staudinger, 1871b: 327. Type locality: '[Lederer] fing diese Stücke [4♂] bei Karli Boghas im Taurus, im südlichen Kleinasien'.

Syntypes 3♂, ♀:

- ♂ with labels: handwritten (Lederer) 'Isaurica | m.[ihi]' (on white paper, in printed box), handwritten 'Karli Boghas' (on white paper), printed 'Origin.' (on pink paper); printed 'Zool. Mus. | Berlin' (on pale yellow paper), printed, with handwritten (Wagner) insertions 'Abgebildet in Hesselbarth | van Oorschot & Wagner: | Tagfalter der Türkei. | Tafel 105 Figur 1' (on white paper);
- ♂ with labels: handwritten 'Karli Boghas' (on white paper), printed 'Coll. Led.' (on white paper), printed 'Origin.' (on pink paper);
- ♂ with labels: handwritten 'Taurus | Ld. [Lederer]' (on yellow paper), printed 'Origin.' (on pink paper);
- ♀ with labels: handwritten 'Karli Boghas' (on white paper), printed 'Coll. Led.' (on white paper), printed 'Zool. Mus. | Berlin' (on pale yellow paper), handwritten (Wagner) 'Lycaena | isaurica | Stgr. 1871' (on white paper), printed, with

handwritten (Wagener) insertions ‘Abgebildet in Hesselbarth | van Oorschot & Wagener: | Tagfalter der Türkei. | Tafel 105 | Figur 7’ (on white paper).

***ismenias* Klug, 1834**

‘*Lycaena Ismenias*’ Klug, 1834, Decas Quarta: Signature *k*[iii], Taf. 40, Abb. 1, 2. Type locality: ‘Prope Ambukohl mense Iulio semel capta’.

Types: not found; *Catalogus Generalis*: 4091 — see Appendix.

***jordanus* Staudinger, 1897**

‘*Jolaus Jordanus* Stgr. n. sp.’ Staudinger, 1897: 153, Taf. 5, Fig. 5. Type locality: ‘...wurde vor einigen Jahren von Herrn Paulus im Jordantal (Paläastina) entdeckt...’

Syntypes 2♂, 2♀:

- ♂ with labels: handwritten (Staudinger) ‘Jolaus ? | Jordanus | Stgr.’ (on white paper), handwritten ‘Jordantal | [18]95 Paulus’ and printed ‘Origin.’ (on pink paper);
- ♂, 2♀ with printed ‘Palaes- | tina’ (on white paper) and printed ‘Origin.’ (on pink paper); one female specimen also has a handwritten label (Staudinger) ‘Jolaus | Jordanus ♀’ (on white paper).

***juennana* Forster, 1940**

‘*Glaucopsyche (Phengaris) atroguttata juennana* ssp. nov.’ Forster, 1940: 877. Type locality (holotype): ‘China, Jünnan, Umgebung von Tali’.

Holotype ♂:

- ♂ with labels: printed, with handwritten insertion ‘China Yunnan | Tali | 6.9.[19]14, | R. Mell’ (on white paper), handwritten (Forster) on printed form ‘Holo-Type | *Phengaris atroguttata* | ssp. *yuennana* <sic> Forst.’ | W. Forster München’ (on pink paper), handwritten (Mell) field label ‘Tali <illegible> | 6.IX.[19]14 | <illegible> (recto) | <text in Chinese> (verso)’ (on poor quality paper, in pencil, folded).

Allotype ♀:

- ♀ with labels: printed, with handwritten insertion ‘China Yunnan | *Tali* | 23.9.[19]14, | R. Mell’ (on white paper), handwritten (Forster) on printed form ‘Allo-Type | *Phengaris atroguttata* | *ssp. yuennana* <sic> Forst.’ | W. Forster München’ (on pink paper), handwritten (Mell) field label ‘Tali (J. 3 <illegible>) | 23.IX.[1914] <illegible> (recto) | <text in Chinese> (verso)’ (on poor quality paper, in pencil, folded).

Paratypes 3 ♂:

- 3 ♂ with labels: printed, with handwritten insertion ‘China Yunnan | *Tali* | 3., 7., 11.9.[19]14, | R. Mell’ (on white paper), handwritten (Forster) on printed form ‘*Para-Typus* | *Phengaris atroguttata* | *ssp. yuennana* <sic> Forst. | W. Forster München’ (on pink paper); the paratypes also have handwritten (Mell) original field labels (on poor quality paper, folded).

For paratypes in Zoologisches Forschungsinstitut und Museum Alexander Koenig, see also Nekrutenko (1998: 133).

***juldusa* Staudinger, 1886**

‘*Lyc.[aena] Kindermanni* Ld. var. *Juldusa* Stgr.’ Staudinger, 1886: 213. Type locality: ‘... von Alpheraki auf dem Juldus- (Tian Schan) Gebirge gefangene...’

Lectotype ♂:

- ♂ with a circle of brown locality label paper, printed ‘Origin.’ (on pink paper), handwritten (Forster) on printed form ‘*Polyommatus* | (*Agrodiaetus*) | *iphigenia* ♂ | *juldusa* Stgr. | det. W. Forster 1947’ (on white paper), handwritten (Forster) on printed form ‘*Lecto-Typus* ♂ | *Lycaena kindermanni* | *juldusa* Stgr. | W. Forster München’ (on pink paper, in box), handwritten (unknown hand) ‘juldussa’ (on white paper) — Forster (1960: 124); Häuser & Eckweiler (1997: 83); Eckweiler & Häuser (1997: Pl. 9).

Paralectotypes 7 ♂, 2 ♀:

- ♂ with labels: handwritten (Staudinger) ‘var. *Juldusa* | Stgr.’ (on white paper), handwritten ‘Tian Schan | Alph.[éraky]’ (on

brown paper), handwritten date label '15/VII' and printed 'Origin.' (on pink paper);

- 4♂, 2♀ with circles of brown locality label paper and printed label 'Origin.' (on pink paper), one male and one female specimen also have labels: handwritten (Forster) on printed form '*Polyommatus* | (*Agrodiaetus*) | *iphigenia* ♂ (♀) | *juldusa* Stgr. | det. W. Forster 1947' (on white paper) and handwritten on printed form 'Cotypus ♂ (♀) | *Lycaena kindermanni* | *juldusa* Stgr.' (on pink paper); one female specimen also has a date label '14/7'.

***juliae* Kardakoff, 1928**

'*Deudorix arata* Brem. *juliae* (subsp. nov.)' Kardakoff, 1928: 271, Taf. 7, Fig. 12. Type locality: 'Die von mir gesammelte Sommertierte stammen aus Wladiwostok, Russ.[ische] Insel, Narva [Narwa] und Barabasch'.

Syntypes 2♀:

- ♀ with labels: printed, with handwritten insertion 'Narva, S. Ussurigebiet | 23.VI.[19]21 N. Kardakoff' (on white paper), printed 'Nachträgl. der | Coll. Püngeler | hinzugefügt' (on greyish paper), handwritten (Kardakoff?) 'Deudorix arata Brem. | v. *juliae* Kardakoff' (on white paper) and printed 'Typus' (on red paper, in box);
- ♀ with labels: printed, with handwritten insertion 'Sutschan, S. Ussurigb. | 3.VI. <crossed, corrected to '6'> [19]21 N. Kardakoff' (on white paper), printed 'Nachträgl. der | Coll. Püngeler | hinzugefügt' (on greyish paper), handwritten (Kardakoff?) 'Deudorix arata Brem. | v. *juliae* Kardakoff' (on white paper) and printed 'Typus' (on red paper, in box).

***kenteana* Staudinger, 1892**

'*Lyc.[aena] Cleobis* Brem. var. *Kenteana*' Staudinger, 1892d: 316. Type locality: 'Kentei'.— Junior subjective synonym of *Lycaena cleobis ida* Grum-Grshimailo, 1891 (Staudinger, 1901: 79).

Syntypes 4♂, 2♀:

- ♂ with labels: handwritten (Staudinger) 'var. | *Kenteana* | Stgr. (recto) | v. *Ida* GrGr. | v. *Kenteana* Stgr. (verso)' (on white

paper), handwritten 'Kentei | [18]89 Dörr.[ies]' (on green paper) and printed 'Origin.' (on white paper);

- 3♂, 2♀ with circles of green locality label paper and printed labels 'Origin.' (on pink paper).

***kindermannii* Lederer, 1852**

'*Lycaena* * *Kindermannii* Gerh.[ard]' Lederer, 1852: 21 (nomen nudum; * designates 'was nicht echt europäisch' — *op. cit.*: 15); '*Lycaena Kindermannii*' Lederer, 1852: 37. Type locality: '...meine *Kindermannii* aus der Gegend von Amasia.' — Junior subjective synonym of *Lycaena carmon* Herrich-Schäffer, [1851] (Staudinger, 1899: 139).

Syntypes 2♂, ♀:

- ♂ with labels: handwritten 'Kindermani <sic> | Gerh.[ard] 2 ♂' (on white paper), handwritten 'Amasia' (on white paper) and printed, with handwritten insertion '*Kindermani* <sic> | Coll. Led.' (on white paper);
- ♂ with printed label with handwritten insertion '*Kindermannii* | Coll. Led.' (on white paper);
- ♀ with labels: handwritten 'Amasia' (on white paper), printed, with handwritten insertion '*Kindermannii* | Coll. Led.' (on white paper).

This species-group taxon was unintentionally named as presumed to be published by Gerhard but actually it was not (cf. Häuser & Eckweiler, 1997: 85). The first of forementioned specimens has a label exactly showing its relation to Gerhard; the others were labelled with 'Coll. Led.' after Lederer's collection was acquired by Staudinger, and insertions on printed labels made in the same writing characters as accepted in the Staudinger collection may show that they were designated in some way in the collection of Lederer.

The specimens are placed under a handwritten (Staudinger) drawer label 'Carmon HS. | Kindermannii | Ld.' (on white faded paper); each provided now with a printed label '*kindermannii* | Lederer, 1852 | SYNTYPUS | Y. Nekrutenko det. 10.11.1998' (on yellow paper).

***kogistana* Grum-Grshimaïlo, 1888**

'*Lycaena kogistana* m.' Grum-Grshimaïlo, 1888: 306. Type locality: 'Darwaz'.

Syntype ♂:

- ♂ with labels: handwritten (Staudinger) 'Kogistana Grum. | Agwai-Polusali Pass | Darwas Geb.[irge].' (on white paper), handwritten 'Darwas | [18]85 Gr.[um] Gr.[shimaïlo]' (on brown paper), handwritten (Grum-Grshimaïlo?, in Russian) 'Karysen <hardly legible>' (on white paper) and small handwritten (Grum-Grshimaïlo) date label '4.VI | [18]85.' (on white paper).

In evidence that this specimen, forwarded by Grum-Grshimaïlo to Staudinger, belongs to the type series, a quotation from a subsequent publication by the author (redescription and type locality restriction) follows: 'Elle n'a été trouvée qu'une seule fois, près du col Agwai-Polousak, où elle volait sur des clairières d'"artcha" [*Juniperus* sp.] (près de 9,500 p.). Commencement de Juin' (Groum-Grshimaïlo, 1890: 407, pl. 8, fig. 6a, 6b).

The specimen is provided now with a printed label '*kogistana* | Grum-Grshimaïlo, 1888 | SYNTYPUS | Y. Nekrutenko det. 16.11.1998' (on yellow paper).

***korlana* Staudinger, 1901**

'*Lycaena* F. *Prosecusa* Ersch. v. *Korlana* Stgr.' Staudinger, 1901: 90. Type locality: 'Tian.[schan] c.[entralis] m.[eridionalis] (Korla)' 'sec.[undum] 3 ♀♀ *descripta*' – l. c.

Syntype ♀:

- ♀ with handwritten (Staudinger) labels 'Prosecusa var.? | Korlana Stgr.', 'von Korla' (both on white paper) and a square piece of pink paper.

The specimen is provided now with a printed label '*prosecusa korlana* | Staudinger, 1901 | SYNTYPUS | Y. Nekrutenko det. 10.11.1998' (on yellow paper).

***kwangtungensis* Forster, 1942**

'*Zephyrus kwangtungensis* spec. nov.' Forster, 1942: 570, Taf. 16. Type locality (holotype): 'China, Kwangtung, Lung tao shan'.

Holotype ♂:

- ♂ with labels: printed, with handwritten insertion 'China Kwantung | *Lung tao Shan* | 3.5.[19]18, | R. Mell' (on white paper), handwritten (Forster) on printed form 'Holo-Type <corrected to 'Typus'> ♂ | *Zephyrus* | *kwangtungensis* Forst. | W. Forster München' (on pink paper);

Paratypes 2♂:

- 2♂ with labels: printed, with handwritten insertion 'China Kwantung | *Lung tao Shan* | 3.8 [19]18 and 7.5.[19]17 | R. Mell' (on white paper), handwritten (Forster) on printed form 'Para-Typus ♂ | *Zephyrus* | *kwangtungensis* Forst. | W. Forster München' (on pink paper); both have also handwritten (Mell?) original field labels (one in Chinese) (on poor quality paper, folded).

laetifica Püngeler, 1898

'*Lycaena cyllarus* Rott. var. *laetifica*. m.' Püngeler, 1898: 57. Type locality: 'Hab.[itat] Ili flimen.' later on redescribed as a species '*Lycaena laetifica* m.' Püngeler, 1899: 95. Type locality: 'Beschrieben nach 3 ♂♂ 1 ♀ aus dem Ili-Gebiet'.

Syntypes 2♂, ♀:

- ♂ with labels: printed, with handwritten (Püngeler) insertion 'Asia centr.[alis] | (*Ili*) | *Rückbeil 1897*' (on white paper) and handwritten (Püngeler) on printed form 'Type <double underlined> | *laetifica* Püng. ♂ | *Püngeler*' (on pink paper);
- ♂, ♀ with labels: printed, with handwritten (Püngeler) insertion 'Asia centr.[alis] | (*Ili*) | *Rückbeil 1897*' (on white paper) and handwritten (Püngeler) on printed form 'Cotype <underlined> | *laetifica* Püng. ♂ (♀) | *Püngeler*' (on pink paper).

The specimens are placed under a handwritten (Püngeler) drawer label 'Cyllarus Rott. | v. *Laetifica* Püng.' (on white paper, in box); the holotype designation (as 'Type') has not been published.

lampon Lederer, 1870

'*Polyommatus Lampon* Led.' Lederer, 1870b: 8, Taf. 1, Figs 2, 3. Type locality: '...bei Astrabad in Persien... ..von Hirten bewohnte Dorf Hadschyabad...' (op. cit.: 3, 4).

Syntypes 2♂, 2♀:

- ♂ with labels: handwritten 'Hadschyabad' (on white paper) and printed 'Origin.' (on pink paper);
- ♀ with printed labels: 'Origin.' (on pink paper) and 'Coll. Led.' (on white paper);
- ♂, ♀ with labels: handwritten 'Hadschyabad' (on white paper), printed 'Origin.' and printed 'Eigentum | Collection | Staudinger' (both on pink paper).

***lamponides* Staudinger, 1901**

'*Chrysophanus* Hb. *Lampon* Ld. v. *Lamponides* Stgr.' Staudinger, 1901: 73. Type locality: 'Pers.[ia] s.[eptentrionale] (Schahrud).

Syntypes 4♂, 2♀:

- ♂ with labels: handwritten 'Schahrud | Chr.[istoph]' (on yellow paper), small handwritten label '17/5' and printed 'Origin.' (on pink paper);
- 3♂, 2♀ with circles of yellow locality label paper.

The specimens are placed under a handwritten (Staudinger) drawer label 'v. *Lamponides* | Stgr.'

***latedisjuncta* Alberti, 1973**

'*L.[ycaena] pyrenaica latedisjuncta* n. subsp.' Alberti, 1973: 221. Type locality: '...mit Holotypus ♂ und typischer Population vom Kasbek'. — Junior subjective synonym of *Lycaena dardanus* Freyer, [1843] (Hesselbarth *et al.*, 1995: 622).

Types ('...einige Paratypen auch im Zoologischen Museum Berlin...' — *op. cit.*: 221): not found.

***lederi* A. Bang-Haas, 1907**

'*Lycaena lycormas* Btl. v. *lederi* n. var.' Bang-Haas, A., 1907: 69. Type locality: 'Aus dem Sajangebiete (Munku) erhielt ich eine Anzahl männlichen Stücke...'

Syntypes 3♂:

- ♂ with labels: handwritten (O. Bang-Haas) 'Lyc.[aena] Lycormas | v. Lederi | BH. | (Sajan M.[ontes])' (on white paper),

handwritten (O. Bang-Haas) ‘Sajan | M.[ontes]’ (on white paper) and handwritten ‘Orig.’ (on pink paper);

- 2♂ with labels: printed ‘Sajan’ (on white paper) and handwritten ‘Orig.’ (on pink paper).

***livia* Klug, 1834**

‘*Lycaena Livia*’ Klug, 1834: Decas Quarta: Signature *k*(iii), Tab. 40, Figs 3, 4 <in text; figured figs 3–6>. Type locality: [Egypt] ‘Patria: inter Kineh [Kineh, Qena] et Assuan [Aswân] Novembre’.

Syntypes 2♂:

- ♂ with labels: handwritten ‘Livia | Kl.[ug] Symb.[olae] t.[abula] 40 f.[igurae] 3–6 | Arab.[ia] fel.[ix] Ehrbg. [Ehrenberg]’ (recto yellow, in printed box, verso white), printed ‘4117’ (on white paper);
- ♂ with labels: handwritten ‘Aegypt | Ehrbg. [Ehrenberg]’ (on dirty green paper), printed ‘4118’ (on white paper).

Catalogus Generalis: 4117, 4118 — see Appendix.

The specimens are provided now with a printed label ‘*livia* Klug, 1834 | SYNTYPUS | A. Olivier & Y. Nekrutenko det. 30.11.1998’ (on yellow paper).

***lorestanus* Eckweiler, 1997**

‘*Polyommatus (Agrodiaetus) demavendi lorestanus* subsp. nov.’ Eckweiler, 1997: 8, Farbtafel 1. Type locality (holotype): ‘Iran, Lorestan, Dorud, Saravand, 2000–2300 m’.

Paratypes 2♂, ♀:

- 2♂, ♀ with printed labels: ‘Iran/Lorestan | Dorud/Saravand | 2.-5.VIII.1979 | leg. GÖRGNER’ (on white paper) and ‘**Paratypus** ♂ (♀) | *Polyommatus (Agrodiaetus) demavendi lorestanus* | **subsp. nov.** | Eckweiler, 1997’ (on bluish paper, in box) — see also Häuser & Eckweiler (1997: 87).

***lorquini* Herrich-Schäffer, [1850]**

‘*Lyc.[aena] Lorquini*’ Herrich-Schäffer, [1850] 1(43): Tab. 92, Figs 442–444; [1852] 6(55): 25. Type locality: not stated: ‘Ein Pärchen von Herr Keferstein’.

Types: not found.

***lucifera* Staudinger, 1867**

'*Lycaena lucifera* Kinderm. in litt.' Staudinger, 1867: 100. Type locality: '...findet sich in nur einem männlichen Exemplar in Gruner's Sammlung... und stammt aus Ust-Kamenogorsk im Altai (westliches Sibirien)'.

Holotype ♂ (by monotypy): not found (see also Forster, 1941: 74–77, Taf. 2, Fig. 12, Taf. 3, Fig. 12).

***lusitanica* Staudinger, 1892**

'*Laeosopis Roboris* Esp. var. *Lusitanica* Stgr.' Staudinger, 1892a: 232. Type locality: '...ein solches ♂ am 6. Juni [18](84) bei Lissabon und besitze noch ein anderes Stück dort; Herr Max Korb fand diese var. *Lusitanica* in Anzahl und in sehr typischen Stücken in Algarbien im südlichen Portugal'.

Syntypes 3♂, ♀:

- ♂ with labels: handwritten (Staudinger) 'var. *Lusitanica* | Stgr.' (on white paper), handwritten 'Lusitania | Eaton' (on yellow paper) and printed 'Origin.' (on pink paper);
- ♂ with labels, handwritten (Staudinger) 'Lissabon | [18]84 m.[ihi]' (on yellow paper), handwritten on printed form '*Visto y dibujado | en 1959 | R. AGENJO det.*' (on white paper), small handwritten <illegible>, and printed 'Origin.' (on pink paper);
- ♂ with labels: handwritten (Staudinger) 'Algarbia | Korb' (on yellow paper) and printed 'Origin.' (on pink paper);
- ♀ with a small square piece of yellow paper and printed 'Origin.' (on pink paper).

***maculifera* Staudinger, 1892**

'*Thestor Romanovi* Christ. var. *Maculifera* Stgr.' Staudinger, 1892a: 233. Type locality: 'Mardin in Mesopotamien.' — Junior subjective synonym of *Thestor romanovi* Christoph, 1882 (Hesselbarth *et al.*, 1995: 506).

Syntypes 6♂, 7♀:

- ♂ with labels: handwritten (Staudinger) 'var. *Maculifera* | Stgr.' (on white paper), handwritten 'Mardin | [18]91 Manis.[sadjian]' (on yellow paper), printed 'Origin.' (on pink paper);

- 5 ♂, 7 ♀ with circles of yellow locality label paper and printed 'Origin.' (on pink paper), one of the male specimens also has a handwritten (Staudinger) label 'var. Maculifera | Stgr.' with an insertion in pencil 'Mardin' (on white paper), some also with small date labels, not always legible.

***mandschurica* Staudinger, 1892**

'*Lycaena Astrarche* Brgstr. var. *Mandschurica*' Staudinger, 1892b: 161. Type locality: 'Diese *Mandschurica* erhielten wir in Anzahl von Herz, der sie im nördlichen China bei Ta-schiao-sy (nördlich von Peking) von Anfang Juni bis Ende Juli fand...' — Junior subjective synonym of *Lycaena chinensis* Murray, 1874 (Staudinger, 1901: 83).

Syntypes 3 ♂, 3 ♀:

- ♂ with labels: handwritten (Staudinger) 'Myrmecias | var. Mandschurica | Stgr.' (on white paper), and 'Peking | [18]85 Herz' (on white paper), small handwritten date label '15/6', printed 'Origin.' (on pink paper);
- ♂ with labels: handwritten (Staudinger) 'Myrmecias var. | Mandschurica | Stgr.' (on white paper), circle of white paper, small handwritten date label '9/6', printed 'Origin.' (on pink paper);
- ♂, 3 ♀ with circles of white locality label paper, small handwritten date labels '8/6', '10/7', '28/7' and printed labels 'Origin.' (on pink paper).

***maraschi* Forster, 1956**

'*Agrodiaetus damone maraschi* ssp. nov.' Forster, 1956: 57. Type locality (holotype): 'Syria sept., Taurus, Marasch'. — Junior subjective synonym of *Agrodiaetus damone wagneri* Forster, 1956 (Hesselbarth *et al.*, 1995: 729).

Paratype ♂:

- ♂ with labels: handwritten 'Taurus | Karli Boghas | 1895 (recto) | Lycaena | actis HS. ♂ | E. Funke 1.[18]96 (verso)' (on white paper, recto in printed box) and handwritten (Forster) on printed form 'Para-Typus ♂ | *Agrodiaetus damone* | *maraschi* Forster | W. Forster München' (on pink paper, in box) — see also Häuser & Eckweiler (1997: 88).

***marchica* Hannemann, 1928**

'*Chrysophanus amphidamas marchica*' Hannemann, 1928: 110. Type locality: 'Strausberg [bei Berlin]'.

Syntypes 3 ♂, 2 ♀:

- 3 ♂, 2 ♀ with labels: handwritten (Hannemann?) '15.7.[19]28 | Strausberg | E. Hañemañ <sic> (on white paper) and printed 'Paratypus' (on pink paper).

The specimens are placed under a handwritten (Herring) drawer label 'Lycaena | amphidamas | marchica Hann.' and (on the same pin) printed 'Paratype' (on pink paper). Since the original description contains no holotype designation (the type material is referred to as 'Typen'), these specimens are to be considered as syntypes (subsequent designation with labels 'Paratypus' by Herring is apparent).

***marcida* Lederer, 1870**

'*Lycaena Marcida* Led.' Lederer, 1870b: 10, Taf. 1, Fig 8. Type locality: '...bei Astrabad in Persien... Nur 2 Männchen erhalten...' (op. cit.: 3).

Syntypes 2 ♂:

- ♂ with labels: handwritten (Lederer) 'Marcida | m.[ihi]' (on white paper, in printed box), and 'Hadschyabad' (on white paper), printed 'Eigentum | Collection | Staudinger' (on pink paper), printed 'Origin.' (on pink paper), printed 'Zool. Mus. | Berlin' (on pale yellow paper);
- ♂ with labels: handwritten 'Hadschyabad' (on white paper), printed 'Coll. Led.' (on white paper), printed 'Origin.' (on pink paper), printed 'Zool. Mus. | Berlin' (on pale yellow paper), handwritten (Schurian) note on a piece of paper 'Hybrid: daphnis brandti × marcida Led. det. Schurian 1992'.

***margelanica* Staudinger, 1881**

'*Polyomm.[atus] Dimorphus* Stgr. n. sp. ...var. *Margelanica*' Staudinger, 1881: 282. Type locality: '...die größere Margelan-Varietät, die ganz gut als var. *Margelanica* bezeichnet werden kann...'

Lectotype ♂:

- ♂ with labels: circle of brown paper, handwritten '30/5 80' (on white-yellowish paper, in black ink), printed 'Origin.' (on pink paper), printed 'ex collect. | Staudinger' (on photographic paper), printed 'Zool. Mus. | Berlin' (on yellow paper), handwritten (Nekrutenko) on printed form 'Figurat | par Y. Nekrutenko in: | *Vestn. zool.* 1984, 6: | *tab. ex adv. p. 48*' (on white paper, in box), handwritten (Nekrutenko) 'margelanica Stgr. | Lectotypus | Y. Nekrutenko design. | 10.IX.1983' (on yellow paper) — Nekrutenko (1984: 44, pl. [1]).

Paralectotypes 6♂, 7♀:

- ♂ with labels: handwritten 'Margelan | Hbhr. [Haberhauer]' (on brown paper) and printed 'Origin' (on pink paper);
- 5♂, 7♀ with circles of brown locality label paper and printed 'Origin' (on pink paper).

marpurgica Strand, 1919

'*Lycaena argus* L. cum ab. *marpurgica* Strand n. ab.' Strand, 1919: 18. Type locality: 'Marburg.' — Infrasubspecific.

Syntypes 3♀:

- 3♀ with labels: printed 'Deutschland | Marburg i.[n] H.[essen] | E. Strand, 7.04[1904].' (on white paper), handwritten (Strand) '*Lycaena* | *argus* L. | Strand det. | ab. *marpur-* | *gica m* ♀' (on stiff white paper, printed line is glued on the middle part of the label); one specimen has a printed label 'Type' (on dirty-pink paper), two other have the same printed labels, with handwritten (Strand) insertion 'Co-Type'.

*mauretanic*a Staudinger, 1892

'*Thecla llicis* Esp. v. *Mauretanic*a Stgr.' Staudinger, 1892c: 279. Type locality: 'Ein ♂ von Tunis stimmt mit Stücken aus Collo (Prov. Constantine)...'

Syntypes 5♂, ♀:

- ♂ with labels: handwritten (Staudinger) 'var. | *Mauretanic*a | Stgr.' (on white paper), handwritten 'Tunis | [18]91 Vaalog.' (on white paper) and printed 'Origin.' (on pink paper);

- ♂ with labels: handwritten ‘Collo | Seriz’ (on yellowish paper) and printed ‘Origin.’ (on pink paper);
- 3♂, ♀ with circles of yellowish locality label paper and printed labels ‘Origin.’ (on pink paper).

***maxima* O. Bang-Haas, 1927**

‘*Lycaena cyane maxima* O. B.-Haas, subsp. nov.’ O. B.-Haas, 1927: 52, Taf. 7, Figs 24, 25. Type locality: ‘China sept. or.: Kansu, Lanchowfu’.

Syntypes ♂, ♀:

- ♂ with labels: handwritten (O. Bang-Haas) ‘Lyc.[aena] cyane | maxima O B Haas’ (on white paper), printed ‘Lanchowfu | Kansu’ (on white paper), printed, with handwritten insertions ‘Horae Macrolep. | Vol. I abgebildet | t. 7, f. 24 | beschrieb. p. 52’ (on white paper), printed ‘Type | O. Bang-Haas’ (on pink paper), printed ‘Zool. Mus. | Berlin’ (on pale yellow paper);
- ♀ with labels: printed ‘Lanchowfu | Kansu’ (on white paper), printed, with handwritten insertions ‘Horae Macrolep. | Vol. I abgebildet | t. 7, f. 25 | beschrieb. p. 52’ (on white paper), printed ‘Zool. Mus. | Berlin’ (on pale yellow paper).

***maxima* Staudinger, 1901**

‘*Cigaritis* B. *Cilissa* Ld. v. *Maxima* Stgr.’ Staudinger, 1901: 76. Type locality: ‘Kurd.[istan] oc.[cidentalis] (Malatia); Mesop.[otamia] s.[eptentrionale] (Mardin)’.

Syntypes 5♂, 3♀:

- ♂ with labels: handwritten (Staudinger) ‘v. Maxima | Stgr.’ (on white paper), handwritten ‘Malatia | [18]84 Man.[issadjian]’ (on yellowish paper), and small handwritten ‘18/6’;
- 2♂, 2♀ with circles of yellowish locality label paper and small date labels ‘24/6’, ‘16/6’, ‘16/6’ and ‘19/6’;
- ♂ with handwritten label ‘Mardin | [18]91 Manis.[sadjian]’ (on yellow paper);
- ♂, ♀ with circles of yellow locality label paper.

The specimens are provided now with printed labels ‘*cilissa maxima* | Staudinger, 1901 | SYNTYPUS | Y. Nekrutenko det. 1998’ (on yellow paper).

***mayencis* Eitschberger & Steiniger, 1975**

'*Eumedonia eumedon mayencis* n. subsp.' Eitschberger & Steiniger, 1975: 106, Figs 13–24. Type locality: 'Deutschland, Rheinland-Pfalz, Mainz-Mombach, Mainzer Sand'.

Paratypes 3 ♂:

- 3 ♂ with labels: printed, with handwritten insertions 'Germania Mainz | Großer Sand | 26.5.[19]74 | leg. Schurian' (on white paper), printed 'PARATYPUS o <sex not stated> | Eumedonia eu- | medon mayencis | EITSCHBERGER & | STEINIGER, 1975' (on deep red paper).

***melania* Staudinger, 1886**

'*Lyc.[aena] Kindermanni* Ld. ... var. *Melania* Stgr.' Staudinger, 1886: 213. Type locality: '...nur 2 frische ♂ aus dem südlichen Alai erhielt...'

Syntypes 2 ♂:

- ♂ with labels: handwritten (Staudinger) 'var. *Melania* | Stgr.' (on white paper), handwritten 'Alai | [18]85 Hbhr. [Haberhauer]' (on brown paper), printed 'Origin.' (on pink paper), handwritten (Forster) on printed form '*Polyommatus (Agrodiaetus)* ♂ | *iphigenia* | *iphigenides* Stgr. | f. *melania* Stgr. det. W. Forster 1947' (on white paper), handwritten (Häuser) on printed form 'SYNTYPUS | *Lycaena* | *kindermanni* | var. | *melania* | *STAUDINGER* | det. Chr. L. Häuser | VI.[19]94' (on pink paper);
- ♂ with labels: circle of locality label brown paper, printed 'Origin.' (on pink paper) and handwritten (Häuser) on printed form 'SYNTYPUS | *Lycaena* | *kindermanni* | var. | *melania* | *STAUDINGER* | det. Chr. L. Häuser | VI.[19]94' (on pink paper) — Häuser & Eckweiler (1997: 88–89); Eckweiler & Häuser (1997: Pl. 9).

***melantho* Klug, 1834**

'*Lycaena Melantho*' Klug, 1834: Decas Quarta: Signature *k*(iv), Tab. 40, Figs 10, 11. Type locality: 'Habitat in Syria.' — Junior subjective synonym of *Papilio spini* Fabricius, 1787 (Hesselbarth *et al.*, 1995: 521).

Syntypes 2♂

- ♂ with labels: handwritten label 'Var. Melantho | Kl.[ug] Symb.[olae] t.[abula] 40 | f.[igurae] 10, 11 | Syria Ehrbg. [Ehrenberg]' (recto yellow, in printed dotted line box, verso white) and printed '4353' (on white paper);
- ♂ without any label.

Catalogus Generalis: 4353 — see Appendix.

The specimens are provided now with a printed label '*melantho* Klug, 1829 | SYNTYPUS | A. Olivier & Y. Nekrutenko det. 30.11.1998' (on yellow paper).

melibaeus Staudinger, 1878

'*Pol.[yommatus] Alciphron* Rott. (*Hipponoë* Esp.), v. *Melibaeus* Stgr.' Staudinger, 1878: 231. Type locality: 'Amasia und Bosz-Dagh'.

Lectotype ♂:

- ♂ with labels: handwritten 'Amasia' (on white paper), printed 'Coll. Led.' (on white paper), printed 'Origin.' (on pink paper), printed 'Zool. Mus. Berlin' (on white paper), handwritten (Lederer) 'V. Melibaeus | Kdm. ilit. <sic>' (on pale green paper, in printed box), handwritten (Wagener) on printed form 'Lectotypus | *Lycaena* | *alciphron* | *melibaeus* | P. S. Wagener' (on red paper, in box) — Wagener in Hesselbarth *et al.* (1995: 479, Taf. 127, Fig. 38).

Paralectotypes 3♂, 2♀:

- ♂ with labels: handwritten 'Amasia' (on yellow paper), printed 'Origin.' (on pink paper), printed 'Zool. Mus. Berlin' (on white paper), handwritten (Wagener) on printed form '*P[ara]Lectotypus* | *Lycaena* | *alciphron* | *melibaeus* | P. S. Wagener' (on red paper, in box);
- ♂ with labels: handwritten 'Bos Dagh' (on white paper), printed 'Coll. Led.' (on white paper), printed 'Origin.' (on pink paper), printed 'Zool. Mus. Berlin' (on white paper), handwritten (Wagener) on printed form in box '*P[ara]Lectotypus* ♂ | *Lycaena* | *alciphron* | *melibaeus* | P. S. Wagener' (on red paper);

- ♀ with labels: handwritten 'Bos Dagħ' (on white paper), printed 'Coll. Led.' (on white paper), printed 'Origin.' (on pink paper), printed 'Zool. Mus. Berlin' (on white paper), handwritten (Wagener) on printed form 'P[ara]-Lectotypus ♀ | *Lycaena | alciphron | melibaeus* | P. S. Wagener' (on red paper, in box);
- ♂, ♀ with labels: handwritten 'Hadschyabad' (on white paper), printed 'Coll Led.' (on white paper), printed 'Origin.' (on pink paper) — these specimens, though labelled by Staudinger as 'Origin.[ale]', do not represent the type series;
- ♂ with labels: handwritten 'Szavalan | Persia Chr.[istoph]' (on yellow paper) and printed 'Origin.' (on pink paper);
- ♂, ♀ with circles of yellow paper and printed labels 'Coll Led.' (on white paper) and 'Origin.' (on pink paper) — these specimens, though labelled by Staudinger as 'Origin.[ale]', do not represent the type series.

***melli* Forster, 1940**

'*Zephyrus melli* spec. nov.' Forster, 1940: 871, Taf. 22, Figs 4, 5, Taf. 23, Figs 4, 5. Type locality (holotype): 'China, Kwangtung, Tsha-yuen-shan'.

Holotype ♂:

- ♂ with labels: printed, with handwritten insertion 'China | Tsha-jiu-san | | 16. VII.[19]11, | Mell S. V.' (on yellow paper), printed 'China Kwantung | R. Mell' (on white paper) handwritten (Forster) on printed form 'Holo-Type ♂ | *Zephyrus | melli* Forst. | W. Forster München' (on pink paper).

Allotype ♀:

- ♀ with labels: printed, with handwritten insertion 'China Kwantung | *Tsha yuen shan* | 27. 6. [19]11 | R. Mell' (on white paper), handwritten (Forster) on printed form 'Allo-Type ♀ | *Zephyrus | melli* Forst. | W. Forster München' (on pink paper), handwritten (Mell) original field label 'Te 27 V [19]11 (recto) | <text in Chinese> (verso)' (on white faded paper, in pencil, folded).

Paratypes 6♂, 2♀:

- 2♂, ♀ with labels: printed, with handwritten insertion ‘China | Tsha-jiu-san | | <different dates>: VII. [19]11, | Mell S. V.’ (on yellow paper), printed ‘China Kwantung | R. Mell’ (on white paper), original field labels (folded), handwritten (Forster) on printed form ‘Para-Type ♂ (♀) | *Zephyrus | melli Forst.* | Dr. W. Forster München’ (on pink paper);
- 2♂, ♀ with labels: printed ‘China, Canton | Mell S. V.’ (on white paper), printed ‘China Kwantung | R. Mell’ (on white paper), original field labels (folded), handwritten (Forster) on printed form ‘Para-Type ♂ (♀) | *Zephyrus | melli Forst.* | Dr. W. Forster München’ (on pink paper);
- ♂ with labels: printed, with handwritten insertion ‘China Kwantung | *Tsha yuen shan* | 23.6. [19]17 | R. Mell’ (on white paper), handwritten (Mell) original field label (folded), handwritten (Forster) on printed form ‘Para-Type ♂ | *Zephyrus | melli Forst.* | Dr. W. Forster München’ (on pink paper);
- ♂ with labels: printed, with handwritten insertion ‘China Kwantung | *Lung tao shan* | 30.6. [19]17 | R. Mell’ (on white paper), handwritten (Mell) original field label (folded), label, handwritten (Forster) on printed form ‘Para-Type ♂ | *Zephyrus | melli Forst.* | Dr. W. Forster München’ (on pink paper).

***merisina* Lorković, 1943**

‘*Everes argiades merisina* n.’ Lorković, 1943: 450, Taf. 25, Fig. 11, Taf. 26, Figs 9, 10.
Type locality: ‘China, Kwang-tung, Gao-fung.’

Holotype ♂:

- ♂ with labels: printed, with handwritten insertion ‘China | Tsha-jiu-san | | 22. VII.[19]10, | Mell S. V.’ (on yellow paper), handwritten (Forster <sic>) on printed form ‘Holo-Type <corrected to Typus> ♂ | *Everes argiades Pall.* | *merisina Lorkovic*’ (on pink paper), handwritten (Mell) field label ‘Te 22 VII (recto) | <typewritten> in (verso)’ (on white paper, in pencil, folded) and a square piece of paper with handwritten ‘1a’ in pencil (on white paper).

Allotype ♀

- ♀ with labels: printed, with handwritten insertion 'China | Tsha-jiu-san | | 21. VII.[19]10, | Mell S. V.' (on yellow paper), handwritten (Forster <sic>) on printed form 'Allo-Type <corrected to Typus> ♂ | *Everes argiades* Pall. | *merisina Lorkovic*' (on pink paper), handwritten (Mell) field label 'Te 21 VII 1a' in pencil (on white paper, folded).

Paratypes 15 ♂, ♀:

- 5 ♂ with labels: printed, with handwritten insertion 'China | Tsha-jiu-san | <different dates>: VII., VIII, IX [19]10, | Mell S. V.' (on yellow paper), printed 'China Kwantung | R. Mell' (on white paper), handwritten (Forster <sic>) on printed form 'Para-Typus ♂ | *Everes argiades* Pall. | *merisina Lorkovic*' (on pink paper);
- 2 ♂ with labels: printed 'China Kwantung | R. Mell' (on white paper), handwritten (Forster <sic>) on printed form 'Para-Typus ♂ | *Everes argiades* Pall. | *merisina Lorkovic*' (on pink paper);
- 5 ♂, ♀ with labels: printed, with handwritten insertion 'China Kwantung | *Tsha yuen shan* | <different dates> 8., 9., [19]10. | R. Mell' (on white paper), handwritten (Forster <sic>) on printed form 'Para-Typus ♂ (♀) | *Everes argiades* Pall. | *merisina Lorkovic*' (on pink paper);
- 2 ♂ with labels: printed, with handwritten insertion 'China Kwantung | *Man tai shan* | <different dates> 8., 9., [19]15. | R. Mell' (on white paper), handwritten (Forster <sic>) on printed form 'Para-Typus ♂ (♀) | *Everes argiades* Pall. | *merisina Lorkovic*' (on pink paper);
- ♂ with labels: printed, with handwritten insertion 'China Kwantung | *Lung tao shan* | 27. [19]17. | R. Mell' (on white paper), handwritten (Forster <sic>) on printed form 'Para-Typus ♂ (♀) | *Everes argiades* Pall. | *merisina Lorkovic*' (on pink paper).

Some paratypes have also original field labels (on poor quality paper, folded).

mesopotamica Staudinger, 1892

'*Lycaena Poseidon* Led. var. *Mesopotamica* Stgr.' Staudinger, 1892a: 233. Type locality: 'Die von Manissadjian bei Malatia Anfangs Juli in Anzahl gefundenen Stücke...' — Junior subjective synonym of *Lycaena poseidon poseidon* Herrich-Schäffer, [1851] (Schurian *et al.*, 1992: 217).

Syntypes 6♂, 2♀:

- ♂ with labels: handwritten (Staudinger) 'Poseidon var. | Mesopotamica | Stgr.' (on white paper), circle of yellow paper, small date label '2/7' (on dirty green paper), printed 'Origin.' (on pink paper), printed 'Zool. Mus. | Berlin' (on pale yellow paper), printed, with handwritten (Wagener) insertions 'Abgebildet in Hesselbarth | van Oorschot & Wagener: | Tagfalter der Türkei. | Tafel 118 Figur 12' (on white paper) — Hesselbarth *et al.* (1995: 726, Taf. 118, Fig. 12); Häuser & Eckweiler (1997: 90);
- 4♂ with circles of yellow paper, three of these with small date labels '2/7' '3/7' and '5/7' (on white faded yellow paper), one, dated '3/7', also has a handwritten (Staudinger) label 'Malatia' (on white paper faded brownish); all with printed labels 'Origin.' (on pink paper), two with printed 'Zool. Mus. | Berlin' (on pale yellow paper), two with new, handwritten in ball pencil 'mesopotamica' (on white paper);
- ♀ with labels: 'Malatia | [18]84 Man.[issadjian] (on yellow paper), small date label '11/7' (on dirty green paper), printed 'Origin.' (on pink paper), printed 'Zool. Mus. | Berlin' (on pale yellow paper), handwritten (Wagener) 'Lycaena | mesopotamica | Stgr. 1892 | Malatia' (on white paper), printed, with handwritten (Wagener) insertions 'Abgebildet in Hesselbarth | van Oorschot & Wagener: | Tagfalter der Türkei. | Tafel 118 Figur 49' (on white paper) — Hesselbarth *et al.* (1995: 726, Taf. 118, Fig. 49 as 'Original' 'Dama Stgr.'): cf. Häuser & Eckweiler (1997: 90);
- ♀ with circle of yellow paper, small date label '2/7' and printed label 'Origin.' (on pink paper);
- ♂ with labels: handwritten (Püngeler) 'Mesopot.[amia] (recto) | mesopotamica | ♂ | vom Stgr 4.99 (verso)' (on white paper,

recto in printed box), handwritten (Püngeler) on printed form 'Cotype <underlined> | v. *mesopotamica* Stgr. | ♀ | vom Autor. | Püngeler' (on pink paper).

The specimens are placed under a handwritten (Püngeler) drawer label 'Poseidon H.S. | v. *Mesopotamica* Stgr.' (on white paper, in printed box).

***minima* Staudinger, 1901**

'*Cigaritis* B. *Cilissa* Ld. v. *Minima* Stgr.' Staudinger, 1901: 76. Type locality: 'Taur.[us] s.[eptentrionalis] (Hadjin).' — Junior subjective synonym of *Cigaritis cilissa* Lederer, 1861 (Hesselbarth *et al.*, 1995: 455).

Syntypes 3 ♂, ♀:

- ♂ with handwritten label 'Hadjin | [18]88 K. O.' (on yellowish paper) and small handwritten date label '6/7';
- 2 ♂, ♀ with same small (date) labels '5/7', '6/7' and '12/7'.

The specimens are provided now with a printed label '*cilissa minima* | Staudinger, 1901 | SYNTYPUS | Y. Nekrutenko det. 1998' (on yellow paper).

***miris* Staudinger, 1881**

'*Lyc.[aena]* *Miris* Stdgr. n. sp.' Staudinger, 1881: 263. Type locality: 'Diese neue Art wurde zuerst von Christoph bei Schahrud (Nord-Persien am Fuße des Gebirges) Mitte Mai gefunden; dann fand sie Haberhauer in einigen Stücken bei Saisan, später ein Stück bei Lepsa und 1880 in einigen 20 Exemplaren bei Margelan (Central Turkestan)'.

Syntypes 12 ♂, 4 ♀:

- ♂ with labels: handwritten 'Schahrud | Chr.[istoph]' (on yellow paper), printed 'Origin.' (on pink paper);
- 3 ♂, ♀ with circles of yellow locality label paper and printed label 'Origin.' (on pink paper);
- ♂ with labels: handwritten 'Saisan | Hbhr. [Haberhauer]' (on brown paper), printed 'Origin.' (on pink paper);
- 2 ♂ with circles of brown locality label paper and printed label 'Origin.' (on pink paper);

- ♂ with labels: handwritten 'Lepsa | Hbhr. [Haberhauer]' (on brown paper), printed 'Origin.' (on pink paper);
- ♂ with labels: handwritten 'Margelan | Hbhr. [Haberhauer]' (on brown paper), printed 'Origin.' (on pink paper);
- 3♂, 3♀ with circles of brown locality label paper and printed label 'Origin.' (on pink paper); some specimens have handwritten date labels, not always clearly legible.

***mirza* Staudinger, 1874**

'*Lycaena Mirza* n. sp.' Staudinger, 1874: 90. Type locality: 'Diese neue Art wurde gleichfalls von Herrn Christoph entdeckt, der aber nur wenig Stücke davon fing. Ich beschreibe sie nach sechs Exemplaren meiner Sammlung, von denen 4 (3 ♂♂ und 1 ♀) vom 28. Mai bis 1. Juni bei Tasch, 2 ♂♂ am 16. Juni bei Schakuh, also auch im nördlichen Persien, gefangen wurden.' — Junior subjective synonym of *Lycaena sieversii* Christoph, 1873 (Staudinger, 1901: 80).

Syntypes 4♂, ♀:

- 4♂, ♀ syntypes of *sieversii* Christoph, 1873.

The specimens are placed under a handwritten drawer label 'Sieversii | Chr. | Mirza Stgr.' (on white paper, in printed box); each provided now with a printed label '*sieversii* Christoph, 1873 | *mirza* Staudinger, 1874 | SYNTYPUS | Y. Nekrutenko det. 1.12.1998' (on yellow paper) — see *sieversii* below.

***mithridates* Staudinger, 1878**

'*Lyc.[aena] Mithridates* Stgr. n. sp.' Staudinger, 1878: 247. Type locality: 'Das eine Stück ist am 17 Juli, wahrscheinlich von mir im Kerasdere gefangen, da aber am selben Tage Emil nach der Jenikeui-Hochebene, Zach und Johann nach dem Kyschlatschky-Wege waren, so bin ich meiner Sache nicht sicher'.

Syntypes 6♂, ♀:

- ♂, pinned underside up, with labels: handwritten (Wagener) 'Lycaena | mithridates | Stgr. 1878' (on white paper), 'Amasia m.[ihi]' (on yellow paper), printed 'Origin.' (on pink paper) and 'Zool. Mus. | Berlin' (on pale yellow paper), printed, with handwritten (Wagener) insertions 'Abgebildet in Hesselbarth | van Oorschot & Wagener: | Tagfalter der Türkei. | Tafel 116 Figur 55' (on white paper) — Häuser & Eckweiler (1997: 90);

- ♀ with labels: 'Amasia | Joh.[ann]' (on yellow paper), printed 'Origin.' (on pink paper);
- ♂ with circle of yellow locality label paper and printed 'Origin.' (on pink paper);
- ♂ with labels: 'Amasia | Joh.[ann]' (on yellow paper), printed 'Origin.' (on pink paper);
- 3♂ with circles of yellow locality label paper and printed 'Origin.' (on pink paper).

***monticola* Staudinger, 1901**

'*Lycaena* F. Alcon F. v. *Monticola* Stgr.' Staudinger, 1901: 90. Type locality: 'Cauc.[asus]; Helv.[etia]; Pont.[us]; ? Lyd.[ia] mont.[es]'.

Syntypes 4♂, 2♀:

- ♂ with labels: handwritten 'Achalzich | Habhr. [Haberhauer] [18]82' (on green paper) printed 'Zool. Mus. | Berlin' (on pale yellow paper), handwritten 'Lycaena alcon | monticola' (on white paper) and new printed 'Typus' (recto red, verso white);
- ♀ with circle of green locality label paper, handwritten 'Lycaena alcon | monticola | Achalzich Hbhr. | [18]82' (on white paper) and new printed 'Typus' (recto red, verso white);
- ♂ with labels: handwritten 'Macugnaga | m.[ihi]' (on brownish paper) and new printed 'Typus' (recto red, verso white);
- ♀ with circle of brownish locality label paper and new printed 'Typus' (recto red, verso white);
- ♂ (abdomen missing, pinned here to in a piece of packing paper wrapper) with labels: handwritten 'Valesia | Ag.[?]' (on yellowish paper) and new printed 'Typus' (recto red, verso white);
- ♂ (abdomen missing) with labels: handwritten 'Armenia | Radde' (on yellow paper), handwritten 'Istissu' (on white paper faded yellow-brown, in pencil) and new printed 'Typus' (recto red, verso white);

Likewise most of the Staudinger species-group taxa becoming available after his death in 1900 (i. e. in Staudinger, 1901), the type specimens were not designated with characteristic 'Origin.' labels.

As may be seen from the original description, the type locality statement was pretty broad, so that all forementioned specimens are labelled such as to fit Staudinger's meaning of the '*terra typica*' to constitute a syntype series. The author of the syntype designation with 'Typus' labels is unknown (cf. Hesselbarth *et al.*, 1995: 576).

The specimens are placed under a handwritten drawer label 'v. Monticola | Stgr.'

***myrrha* Herrich-Schäffer, [1851]**

'[*Lycaena*] *Myrrha*' Herrich-Schäffer, [1851] 1(49): Tab. 106, Figs 508–511: [1852] 6(55): 26. Type locality: 'Aus Kleinasien' (cf. Staudinger, 1878: 242).

?-Syntype:

- ♂ with printed labels: 'Origin. ? | ?' (on pink paper, with handwritten Staudinger insertions), 'Coll Led.' (on white paper), 'Zool. Mus. | Berlin' (on pale yellow paper), with handwritten insertion 'ZSM | Negativ | No. 107/108' (on white paper).

One of 5 (4♂, ♀) specimens of the collection was designated by Staudinger (1878: 241–242) as an apparent syntype: 'Dieser ist in Herrich-Schäffer's Figur beim ♂ gar nicht angegeben und auch bei dem alten Lederer'schen Stück (vielleicht dem Original ?) nur sehr matt erkennbar. Sonst ist die Figur gut. Die ächte *Myrrha* ist nur bei Amasia und Tokat (Kindermann) gefunden.' (see also Hesselbarth *et al.*, 1995: 666).

***myrrhina* Staudinger, 1901**

'*Lycaena* F. *Myrrha* HS. v. *Myrrhina* Stgr.' Staudinger, 1901: 85. Type locality: 'Pont.[us] or.[ientalis] Gümüschane'.

Syntypes 4♂:

- ♂ with labels: handwritten (Staudinger) 'v. *Myrrhina* | Stgr.' (on white paper), 'Gümüschchane | Pont [18]94 Sint.[enis]' (on yellow paper), printed 'Zool. Mus. | Berlin' (on pale yellow paper) and 'Origin.' (on pink paper);
- ♂ with labels: circle of yellow locality label paper, handwritten (O. Bang-Haas?) 'Gümüschchane ♂ | Pont 94 Sint.[enis]', 'Lýcaena myrrha H. S. | var. myrrhina Stgr.' (the first was added

subsequently as an extension of the circle reference), printed Bang-Haas label 'Type' (on red paper), a square piece of purple-violet paper, handwritten (de Lesse) 'de Lesse | 1946' (on white paper), printed 'Zool. Mus. | Berlin' (on pale yellow paper), handwritten (Wagener) 'myrrhina | Berlin', printed, with handwritten (Wagener) insertions 'Abgebildet in Hesselbarth | van Oorschot & Wagener: | Tagfalter der Türkei. | Tafel 111 Figur 29' (on white paper) — Hesselbarth *et al.* (1995, Taf. 111, Fig. 29);

- ♂ with labels: handwritten 'Egin | [18]84 Man.[issadjian]' (on yellow paper), small date label '4/7', printed 'Zool. Mus. | Berlin' (on pale yellow paper);
- ♂ with labels: circle of yellow locality label paper, handwritten (unknown hand) 'myrrha | myrrhina Stgr. | Egin, Türkei' (on white paper); printed 'Origin.' (on pink paper), printed, with handwritten insertion 'ZSM | Negativ | No. 105/106' (on white paper), printed 'Zool. Mus. | Berlin' (on pale-yellow paper), printed, with handwritten (Wagener) insertions 'Abgebildet in Hesselbarth | van Oorschot & Wagener: | Tagfalter der Türkei. | Tafel 111 Figur 30' (on white paper) — cf. Hesselbarth *et al.* (1995: Taf. 111, Fig. 34).

***myrtale* Klug, 1834**

'*Lycaena Myrtale*' Klug, 1834: Decas Quarta: Signature I(i), Tab. 40, Figs 15, 16. Type locality: 'Habitat in Syria'.

Syntypes 3 ♂:

- ♂ with labels: handwritten 'Myrtale | Kl.[ug] Symb.[olae] t.[abula] 40 f.[igurae] 15, 16 | Syria Ehrbg. [Ehrenberg]' (recto yellow, in printed box, verso white) and printed '4341' (on white paper);
- 2 ♂ without any label.

Catalogus Generalis: 4341 — see Appendix.

The specimens are provided now with a printed label '*myrtale* Klug, 1834 | SYNTYPUS | A. Olivier & Y. Nekrutenko det. 30.11.1998' (on yellow paper).

nahizerica Eckweiler, 1978

‘*Aricia teberdina nahizerica* sp. n.’ Eckweiler, 1978: 115, Abb. 1–4. Type locality: ‘NO Türkei: Prov. Erzurum: Ispir: vic. Nahizer.’

Paratypes ♂, 4 ♀:

- ♂, 4 ♀ with printed labels: ‘Türkei/Erzurum | Ispir/Nahizer | 1700-1900 m | 4.8.-8.8.[19]77 | leg. ECKWEILER’ (on white paper), ‘Paratypus ♂ (♀) | *Aricia teberdina* ssp. | *nahizerica* | des. ECKWEILER 1978’ (on deep red paper).

nogelii Herrich-Schäffer, [1851]

‘*Thecla Nogelii*’ Herrich-Schäffer, [1851] 1(51): Tab. 110, Figs 529–532; [1852] 6(55): 33–34. Type locality: ‘Aus Amasia’.

Types: not found (for lectotype designation see van Oorschot & Wagener, 2000: 97–98).

oberthuerei Staudinger, 1887

‘*Thecla Oberthüri* Stgr.’ Staudinger, 1887b: 138, pl. 6, fig. 4, a, b. Type locality: ‘Dörries fing sie zuerst am Ussuri, später zog er sie auf Askold oder am Bykin; im vorigen Jahr fand er sie auch am Suifun...’

Syntypes:

- ♂ with labels: handwritten (Staudinger) ‘Butleri Waterh.? <crossed out, corrected:> Fenton | Obertüri | Stgr.’ (on white paper), handwritten ‘Askold | [18]83 Dörr.[ies]’ (on bluish-violet paper), printed ‘Origin.’ (on pink paper);
- 5 ♀ with same printed labels ‘Origin.’, two of these with handwritten locality labels ‘Suifun | [18]85 Dörr.[ies]’ and ‘Ussuri | Dörr.[ies] [18]82’ (both on bluish-violet paper), two with circles of bluish-violet paper, one has a small handwritten label ‘13’.

oberthuerei Staudinger, 1901

‘*Lycaena F. Orbitulus* Prun. subv.[arietas] *Oberthüri* Stgr.’ Staudinger, 1901: 81. Type locality: Pyr.[enees] c.[entrales]. — Junior primary homonym of *Lycaena elvira oberthuerei* Grumm-Grshimailo, 1887; replacement name: *magnaglandon* Verity, 1949: 134 (Kudrna, 1983: 30).

Syntypes 4♂, ♀:

- 2♂ with labels: printed 'Hautes Pyrénées | Cauterets | R. Oberthür | Juillet 1881' (on white paper, in box), printed 'Origin.' (on pink paper) and a circle of blue paper; one ♂ with handwritten (Staudinger) 'subv. /Oberthür | Stgr.' (on white paper);
- ♂ with labels: handwritten 'Pyrenais <sic> | Morel' and printed 'Origin.' (on pink paper);
- ♂, ♀ with circles of blue locality label paper and printed 'Origin.' (on pink paper).

***obscurata* Staudinger, 1892**

'*Lyc.[aena] Euphemus* Hb. var. *Obscurata* Stgr.' Staudinger, 1892d: 320. Type locality: 'Es liegen mir 4♂ ♂ und 5♀ ♀ vom Kentei vor..'

Syntypes 3♂, 5♀:

- ♂ with labels: handwritten (Staudinger) 'v. *Obscurata*' (on white paper), handwritten 'Kentei | [18]89 Dörr.[ies]' (on green paper) and printed 'Origin.' (on pink paper);
- ♂, 2♀ with circles of green locality label paper and printed label 'Origin.' (on pink paper);
- ♂ with labels: handwritten 'Ala Tau | Hbhr. [Haberhauer]' (on brown paper) and printed 'Origin.' (on pink paper);
- 3♀ with circles of brown locality label paper and printed label 'Origin.' (on pink paper).

***obscurata* Staudinger, 1901**

'*Cigaritis* B. *Acamas* Klug v. *Obscurata* Stgr.' Staudinger, 1901: 76. Type locality: 'Taur.[us] s.[eptentrionalis] (Hadjin).' — Junior subjective synonym of *Lycaena acamas* Klug, 1834.

Syntypes 3♂, 2♀:

- ♂ with labels: handwritten 'Hadjin | [18]88 K. O.[?]' (on yellow paper), small handwritten '20/6' and printed 'Origin.' (on pink paper);

- 2♂, 2♀ with same printed labels ‘Origin.’, with small handwritten (date) labels and with circles of yellow locality label paper.

The specimens are placed under a handwritten (Staudinger) drawer label ‘v. Obscurata | Stgr.’ (on white paper).

***ochimus* Herrich-Schäffer, [1851]**

‘*Polyommatus* *Ochimus*’ Herrich-Schäffer, [1851] 1(49): Tab. 109, Figs 523–526; [1852] 6(55): 31–32. Type locality: ‘Aus Kleinasien’.

Types: not found.

***olympica* Lederer, 1852**

‘*Lycaena Corydon* Var. *Olympica*’ Lederer, 1852: 36, Nachtrag: 53. Type locality: ‘vom Olymp bei Brussa’.

Lectotype ♂:

- ♂ with labels: handwritten ‘Brussa’ (on white paper), printed ‘Coll. Led.’ (on white paper), printed ‘Zool. Mus. | Berlin’ (on pale yellow paper), handwritten (Schurian) on printed lined form ‘*Polyommatus* | (*Lysandra*) | *ossmar olympica* | Lederer 1852 | det. Schurian 1988’ (on white paper), handwritten (Schurian) on printed form ‘Gen. Präparat | Nr. 216/1985’ (on white paper), handwritten (Schurian) on printed form ‘*Lysandra ossmar* | ssp. *olympica* Led. stat. nov. | det. Schurian 1985’, handwritten (Schurian) ‘Lectotypus ♂ <written over printed ‘Paratypus’> | *Lycaena* | *ossmar olympica* | Lederer 1852 | des. Schurian, 1988’ (on red paper, in box) — Schurian (1988: 136).

***omphale* Klug, 1834**

‘*Lycaena Omphale*’ Klug, 1834: Decas Quarta: Signature *k*(iv), Tab. 40, Figs 12–14. Type locality: ‘Habitat in Syria.’ — Junior subjective synonym of *Lycaena thersamon* Esper, [1784].

Types: not found; *Catalogus Generalis*: 4554 — see Appendix; only a drawer label ‘Var. | Omphale | Klug Symb. phys. | Syria | Ehrbg’ (recto yellow, in dotted line box, verso white) was found.

***orbitulinus* Staudinger, 1892**

'*Lyc.[aena] Orbitulus* Esp. var. (*Orbitulinus*) Stgr.' Staudinger, 1892d: 318. Type locality: '...im Kentei...'

Syntypes 3 ♂, ♀:

- ♂ with labels: handwritten (Staudinger) 'var. *Orbitulinus* | Stgr.' (on white paper), handwritten 'Kentei | [18]89 Dörr.[ies]' (on green paper) and printed 'Origin.' (on pink paper);
- 2 ♂, ♀ with circles of green locality label paper; one male specimen has also a handwritten label 'Kentei' (on white, faded yellow, paper).

***orientalis* Staudinger, 1881**

'*Polyomm.[atus] Dorilis* Hufn. var. *orientalis* Stgr.' Staudinger, 1881: 281. Type locality: '...aus dem Caucasus und Kleinasien... Ala Tau... Brussa...' — Junior subjective synonym of *Papilio tityrus tityrus* Poda, 1761 (Hesselbarth *et al.*, 1995: 475).

Lectotype ♂:

- ♂ with labels: handwritten 'Ala Tau | Hbhr. [Haberhauer]' (on brown paper), printed 'Origin.' (on pink paper), circle of blue paper, handwritten (Nekrutenko) on printed form 'LECTOTYPUS ♂ | *orientalis* Stgr. | Y. Nekrutenko design.' (on yellow paper, in box) — Nekrutenko *in* Hesselbarth *et al.* (1995: 475).

Paralectotypes 3 ♂, 3 ♀:

- ♀ with a circle of brown locality label paper identical to that of the lectotype and printed label 'Origin.', handwritten (Nekrutenko) on printed form 'PARALECTOTYPUS ♀ | *orientalis* Stgr. | Y. Nekrutenko design.' (on yellow paper, in box);
- ♂ with labels: handwritten 'Amasia | Sch.' (on yellow paper), handwritten '10/5' and printed 'Origin.' (on pink paper);
- ♂, ♀ with labels: handwritten 'Brussa' (on white paper), printed 'Coll. Led.' (on white paper) and printed 'Origin.' (on pink paper);
- ♂, ♀ with labels: handwritten 'Caucasus' (on white paper), printed 'Coll. Led.' (on white paper) and printed 'Origin.' (on pink paper).

orientalis Staudinger, 1901

'*Lycaena F. Amandus* Schn. v. *Orientalis* Stgr.' Staudinger, 1901: 85. Type locality: 'Pont.[us]; Arm.[enia]; Hyrc.[ania]; Tarb.[agatai]; Ala Tau'; restricted by lectotype designation: 'Amasia' — Junior subjective synonym of *Papilio amandus amandus* Schneider, 1792.

Lectotype ♂:

- ♂ (head and abdomen missing), with labels: handwritten 'Amasia | m.[ihi?]' (on yellow paper), handwritten 'orientalis | Stgr.' (on white paper, in pencil), handwritten (Bernardi) on printed form '*L. amandus* | *orientalis* Stgr. | lectotype ♂ Bernardi dét. | 1964 | cf. *Alexanor*, III: 273 | 1964' (on white paper) and combined printed/handwritten designation label 'LECTOTYPE' (on red paper) — Bernardi (1964: 273).

Paralectotypes 12(15?)♂, 10(9?)♀:

- ♀ with handwritten labels: 'Amasia | Joh.[annes]' (on yellow paper), small date label '10/6';
- ♀ with circle of yellow locality label paper and small date label '4/6';
- ♂ with labels: handwritten 'Taurus | Hbhr. [Haberhauer]' (on yellow paper), handwritten (Bernardi) 'v. *orientalis* | Stgr.' (on white paper, in pencil), printed 'Paratypus' (on red paper, in box);
- ♂ with labels: handwritten 'Hadjin | [18]88 K. O.' (on yellow paper), small date label '28/5', printed 'Paratypus' (on red paper, in box);
- ♀ with handwritten labels: 'Eibes | [18]89 Man.[issadjian].' (on yellow paper), small date label '6/5';
- ♂, ♀ with handwritten labels: 'Tekke | [18]94 Wild.[?].' (on yellow paper);
- ♂ with circle of yellow locality label paper, small date label '11/6' and printed 'Paratypus' (on red paper, in box);
- ♂ with circle of yellow locality label paper;
- ♂ with handwritten labels: 'Achalzich | Hbhr. [Haberhauer] [18]82' (on green paper) and small date label '3/8';

- ♂ with circle of green locality label paper, small date label '2/7';
- 2♂ with labels: handwritten 'Caucasus' (on white paper), circle of green locality label paper (one ♂ only), printed 'Coll. Led.' (on white paper) and printed 'Paratypus' (on red paper, in box);
- ♂ with handwritten label: 'Schakuh | Chr.[istoph]' (on yellow paper) and small date label '7/6' (on brown paper);
- 2♀ with circle of yellow locality label paper;
- ♀ with handwritten label: 'Astrabad | Hbhr. [Haberhauer]' (on yellow paper);
- ♂ with handwritten label 'Tarbagatai | Hbhr. [Haberhauer]' (on brown paper);
- ♀ with circle of brown locality label paper;
- ♂ with handwritten label 'Ala Tau | Hbhr. [Haberhauer]' (on brown paper);
- ♀ with circle of brown locality label paper;
- ?-♂ with handwritten label 'Margelan | Hbhr. [Haberhauer]' (on brown paper);
- ?-♂ with handwritten labels: 'Margelan | Maur.[er] [18]84' (on brown paper), date label '17/5' 'Scheichm[?]' (folded);
- ?-♂ with handwritten label 'Namangan | Hbh. [Haberhauer] [18]84' (on brown paper);
- ?-♀ with circle of brown locality label paper and handwritten date label '28/5'.

Likewise most of the Staudinger species-group taxa becoming available after his death in 1900 (i. e. in Staudinger, 1901), the type specimens were not designated with characteristic 'Origin.' labels. As may be seen from the original description, the type locality statement was pretty broad, so that all forementioned specimens are labelled such as to fit Staudinger's meaning of the '*terra typica*' to constitute a syntype series. Since 'Grâce à l'amabilité du Dr Hannemann j'ai sous les yeux certains des exemplaires de Staudinger qui représentent donc, en langage moderne, les syntypes d'*orientalis*', Bernardi (1964: 273) received on loan only five

specimens (by selection of Hannemann), one of these “Je choisis comme lectotype ♂ un exemplaire étiqueté “Amasia”, the rest were labelled by him (or by Hannemann on return of the loan?) with printed labels ‘Paratypus’. In fact, the entire series mentioned above represents the type series (syntypes and, subsequently, paralectotypes).

ornata Staudinger, 1892

‘*Lycaena Orion* Pall. und var. *Ornata* Stgr.’ Staudinger, 1892b: 159. Type locality: ‘Maack fand sie am Amur-Ufer, Radde am Onon und im Bur.[eja] G.[ebirge], Christoph bei Radd.[efka] and Wlad.[iwostok], Dörries auf Ask.[old], am Sutschan und am Bik.[in], Graeser bei Pokr.[ofka] häufig, bei Wlad.[iwostok] nur an einer stelle... ..alle mir vorliegenden Amur-Stücke der ersten Generation...’; replacement name: *Scolitantides orion athenae* Hemming, 1934: 98 (the replacement is not justified since it is a *senior* primary homonym of *Lycaena astrarche* ab. *ornata* Staudinger, 1892 below; for the dates unknown to Hemming see *Reference* section).

Syntypes 5♂, 2♀:

- ♂ with labels: handwritten (Staudinger) ‘v. Ornata | Stgr. | typisch’ (on white paper), ‘Raddefskaja | Chr.[istoph]’ (on violet paper), small handwritten date label ‘18/5’ and printed ‘Origin.’ (on pink paper);
- ♂, ♀ with circles of violet locality label paper and printed ‘Origin.’ (on pink paper);
- ♂, with labels: handwritten ‘Wladiwostock | Chr.[istoph]’ and printed ‘Origin.’ (on pink paper);
- ♂, ♀ with labels: handwritten ‘Askold | Dörr.[ies]’ (♂ with date ‘[18]83’ and printed ‘Origin.’) (on pink paper);
- ♂ with labels: handwritten ‘Bykin | 18[87] Dörr.[ies]’ and printed ‘Origin.’ (on pink paper).

ornata Staudinger, 1892

‘*Lyc.[aena] Astrarche* Bergstr. ab. *Ornata* Stgr.’ Staudinger, 1892c: 280. Type locality: ‘...von Tunis... Ganz ähnliche (gleiche) Stücke fing ich in Anzahl auf der Insel Sardinien, sowie einzeln bei Chiclana (Cadiz), auch besitze ich ein ♂ von Teneriffa und ein ♀ von Corsica’ — Infrasubspecific (cf. Hemming, 1934: 98).

Syntypes 9♂, ♀:

- ♂ with labels: handwritten (Staudinger) 'v. (ab.) | Ornata Stgr.' (on white paper), 'Sardinia | m.[ihi?]' (on pale pink paper) and printed 'Origin.' (on pink paper);
- 5♂, with circles of pale pink locality label paper and printed label 'Origin.' (on pink paper);
- ♀ with labels: handwritten 'Corsica' (on white paper), printed 'Coll. Led.' (on white paper) and printed 'Origin.' (on pink paper);
- ♂ with labels: handwritten 'Chiclana | m.[ihi?] [18]80' (on green paper) and printed 'Origin.' (on pink paper);
- ♂ with labels: handwritten 'Tunis | [18]91 Vaalog.' (on white paper) and printed 'Origin.' (on pink paper);
- ♂ with labels: handwritten 'Teneriffa | Boecker' (on white paper) and printed 'Origin.' (on pink paper).

osiris O. Bang-Haas, 1927

'*Lycaena osiris* O. B.-Haas, spec. nov.' Bang-Haas, O., 1927: 52, Taf. 7, Figs 26, 27. Type locality: 'Armenien; Kagymann (recte: Kagyzman) mont., Dorf Tschangla unteres Ufer des Araratflusses. Gebirgswiesen 2300–2500 m.' — Junior primary homonym of *Lycaena osiris* Hopffer, 1855; replacement name: *Aricia kagizmanensis* Koçak, 1980a: 142; junior subjective synonym of *Papilio eumedon eumedon* Esper, [1780] (Hesselbarth *et al.*, 1995: 625).

Lectotype ♂:

- ♂ with labels: handwritten (O. Bang-Haas) 'Lyc.[aena] osiris | O B Haas' (on white paper), printed 'Kagyzman | 3000m Juli | Russ. Armen.' (on white paper), printed, with handwritten insertions 'Horae Macrolep. | Vol. I abgebildet | t. 7, f. 26 | beschrieb. p. 52' (on white paper), printed 'Type | O. Bang-Haas' (on pink paper), printed 'Zool. Mus. | Berlin' (on yellow paper), handwritten (Nekrutenko) on printed form 'LECTOTYPUS ♂ | *osiris* O. Bang-Haas | 1927. | Y. Nekrutenko design.' (on yellow paper) — Nekrutenko *in* Hesselbarth *et al.* (1995: 625).

Paralectotype ♀:

- ♀ (pinned underside up), with labels: printed ‘Kagyzman | 3000m Juli | Russ. Armen.’ (on white paper), printed ‘Type | O. Bang-Haas’ (on pink paper), printed ‘Zool. Mus. | Berlin’ (on yellow paper), handwritten (Nekrutenko) on printed form ‘PARALECTOTYPUS ♀ | *osiris* O. Bang-Haas | 1927. | Y. Nekrutenko design.’ (on yellow paper).

***ossmar* Gerhard, [1851]**

‘*Lycaena Corydon* Hbr. [Hübner] Var. *Ossmar*. Bischoff’ Gerhard, [1851]: 17, Pl. 31, Fig. 4 a, b, c. Type locality: ‘Türkei.’ ... ‘...empfang ich durch Herrn Bischoff, der dieselbe in der Türkei fing.’

Neotype ♂:

- ♂ with labels: [handwritten ‘Amasia’ (on yellow paper)] – indicated by Schurian (1988: 135) but not found, handwritten ‘corydonius | H. S.’ (on white paper, in pencil), printed ‘Zool. Mus. | Berlin’ (on pale yellow paper), handwritten (Schurian) on printed lined form ‘*Polyommatus* | (*Lysandra*) | *ossmar* | GERHARD 1851 | det. Schurian 1988’ (on white paper), handwritten (Schurian) on printed form ‘Gen. Präparat | Nr. 214/1985 | Schurian’, handwritten (Schurian) on printed form ‘Neotypus ♂ | *Lysandra ossmar* | GERHARD (1851) | teste SCHURIAN 1984’ (on red paper) and ‘Neotypus ♂ <written over printed ‘Paratypus’> | *Lycaena corydon* | *ossmar* | GERHARD 1851 | det. Schurian, 1988’ (on red paper, in box) — Schurian (1988: 135, Taf. 1, 2, Fig. 5).

***palandoekis* Schurian & Häuser, 1981**

‘*Meleageria daphnis palandökis* n. subsp.’ Schurian & Häuser, 1981: 105. Type locality (holotype): ‘Anatolia/Erzurum Palandöken dagh 2200 m vic. Palandöken, 2 km südlich’. — Junior subjective synonym of *Lycaena meleager versicolor* Heyne, [1895] (Hesselbarth *et al.*, 1995: 687).

Paratypes 2♂, ♀:

- 2♂, ♀ with printed labels: ‘ANATOLIA/Erzurum | Palandöken dagh/2200 m | vic. Palandöken/2 km südl. | 5.VIII u. 13. - 15.VIII <sic> [19]77 | leg. Schurian’ (on white paper) and

'Paratypus | *Meleageria daphnis* | *palandoekis* n. ssp. | Schurian/Häuser 1981' (on white paper, in red box).

***panaegides* Staudinger, 1886**

'*Lyc.[aena] Panaegides* Stgr. (*Panagaea* var.?)' Staudinger, 1886: 206. Type locality: 'im Juli mit typischen *Cytis* zusammen in den Gebirgen bei Samarkand gefangen haben.'

Syntypes 6♂, 2♀:

- ♂ with labels: handwritten (Staudinger) 'Cytis v. *Panaegides* | Stgr. | <in different ink> *Alaica* Stgr. | synonym.' (on white paper), 'Prov. Samarkand | Hbhr. [Haberhauer] [18]81' (on brown paper) and printed 'Origin.' (on pink paper);
- 5♂, 2♀ with printed label 'Origin.' (on pink paper) and circles of brown locality label paper; one of the male specimens also has a small handwritten date label '6/7' (on white paper).

***panagaea* Herrich-Schäffer, [1851]**

'*[Lycaena] Panagaea*' Herrich-Schäffer, [1851] 1(47): Tab. 103, Figs 490–493; '*Panagaea* Kad. ... (früher *Endymion* Kind.)' [1852] 6(55): 30. Type locality: 'Beide Geschlechter aus Kleinasien, von Herr Kindermann'. — Junior subjective synonym of *Lycaena endymion* Gerhard, [1851]. The priority of Gerhard's name over that of Herrich-Schäffer's [1851] is established here after Koçak, 1980c: 17 (cf. ICZN Art. 21.3.1, 21.3.2).

Types: not found.

***parnassia* Staudinger, 1870**

'*Lycaena Semiargus* Rott. (*Acis* S. V.) v. *Parnassia*' Staudinger, 1870b: 55. Type locality: 'Nur auf dem Parnass... gefangen und zwar in grosser Anzahl.'

Syntypes 7♂, 6♀:

- ♂ with labels: handwritten 'Parnass | Kr.[über]' (on yellow paper), printed, with handwritten insertion 'Parnass | 20/4 [18]66' (on white paper), printed 'Origin.' (on pink paper);
- 5♂, 5♀ with circles of yellow locality label paper and printed label 'Origin.' (on pink paper);

- ♂, ♀ with labels: printed, with handwritten (Püngeler) insertion ‘Graecia | sept.[entrionalis] mont.[es] (recto) | parnassia ♂ (♀) | vom Stgr. | Püngeler (verso)’ (on white paper) and handwritten (Püngeler) on printed form ‘Cotype <underlined> | v. *parnassia* Stgr. ♂ (♀) | Püngeler’ (on pink paper).

The specimens are placed under a handwritten (Püngeler) drawer label ‘Semiargus Rott. | v. *Parnassia* Stgr.’ (on white paper, in printed box).

***persephatta* Alphéraky, 1881**

‘*Lycaena persephatta* Alph. nov. sp.’ Alphéraky, 1881: 395, Tab. 14, Fig. 11. Type locality: ‘L’espèce assez rare, volait en Juin le long du Kounguesse entre 4 et 6000 pieds.’

Syntypes ♂, 3 ♀:

- ♂ with labels: handwritten ‘Tian Schan | Alph.[éraky]’ (on brown paper), handwritten (Alphéraky) date label ‘5/VI [1879]’ (on white paper) and printed ‘Origin.’ (on pink paper);
- 3 ♀ with circles of brown locality label paper, handwritten (Alphéraky) date labels ‘3/VI [1879]’ and ‘7/VI [1879]’ (on white paper) and printed labels ‘Origin.’ (on pink paper); one female specimen has a handwritten (Alphéraky) label ‘3 VI 1879. | Tianchan. | Persephatta’ (on white paper).

Under a handwritten drawer label ‘Persephatta | Stgr.’ (on white paper, in box) there are placed 7 more specimens designated with Staudinger’s printed labels ‘Origin.’ (on pink paper): 2 ♂, 4 ♀ from ‘Margelan | Hbhr. [Haberhauer]’ and a ♀ from ‘Ala Tau | Hbhr. [Haberhauer]’. Along with forementioned specimens, they constitute the type series of a taxon Staudinger intended to describe, but he abandoned this intention after Alphéraky’s publication (cf. Staudinger, 1901: 89). The specimens collected by Alphéraky during his 1879 trip to ‘district de Kouldjà et des montagnes environnantes’ (inclusive Tien-Shien Mts.) and which he sent to Staudinger undoubtedly are an integral part of his type series, and hence are provided now with a printed label ‘*persephatta* | Alphéraky, 1881 | SYNTYPUS | Y. Nekrutenko det. 11.11.1998’ (on yellow paper).

***persica* Bienert, [1869]**

'*P.[olyommatus] Thersamon var. persica m.*' Bienert, [1869]: 28. Type locality: 'In subalpiner Region des Gebirges im NW. von Meschet...'

Types: not found (see also Hesselbarth *et al.*, 1995: 485).

***persica* Bienert, [1869]**

'*Lyc.[aena] Icarus var. persica m.*' Bienert, [1869]: 29. Type locality: 'Mit dem Stammform bei Nischapur, Ssäbsewar, Chanlung und Meschet...' — Junior secondary homonym of *Lycaena thersamon persica* Bienert, [1869]; replacement name: *Polyommatus icarus bienerti* Bálint, 1992: 410, 415. Junior subjective synonym of *Papilio icarus* Rottemburg, 1775.

Lectotype ♂:

- ♂ with labels: handwritten 'Mesch.[et] 170' (on white paper), a circle of yellow paper, printed 'Origin.' (on pink paper), handwritten (Nekrutenko) on printed form 'LECTOTYPUS ♂ | *persica* Bien. | Y. Nekrutenko design.' (on yellow paper) — Nekrutenko in Hesselbarth *et al.* (1995: 676).

Paralectotype ♂:

- ♂ with labels: handwritten 'Persia | Bnt. [Bienert]' (on yellow paper), printed 'Origin.' (on pink paper), handwritten (Nekrutenko) on printed form 'PARALECTOTYPUS ♂ | *persica* Bien. | Y. Nekrutenko design.' (on yellow paper) — Nekrutenko in Hesselbarth *et al.* (1995: 676).

***pfeifferi* Brandt, 1938**

'*Lycaena Pfeifferi sp. n.*' Brandt, 1938: 671, Taf. 4, Figs 1–3. Type locality: Iran. 'Die Typenserie von Barm i Firus (3750 m), Juli doch kommt diese Art auch im Elbursgebirge vor, so z. B. im Juni auf den Bergen um Nissa'.

Paratypes ♂, ♀:

- ♂, ♀ with labels: printed 'IRAN FARS, Straße | Ardekan - Talochsroe | Comé m 1937 | coll. Brandt' (on pale yellow paper), printed '62.' (on white faded paper), a small square piece of pale pink paper, printed 'Paratypus' (on red paper) and handwritten 'Lycaena | pfeifferi B.[randt]' (on white paper) — cf. Häuser & Eckweiler (1997: 94).

pharaonis Staudinger, 1895

'*Lycaena Pharaonis* Stgr. n. sp.' Staudinger, 1895a: 243. Type locality: '...beschrieb ich sie hier nach 5 ♂♂ und einem ♀ meiner Sammlung. Das eine ♂ wurde am 5. December bei Cairo, ein anderes am 18. Januar bei Ipsambul (?) in Aegypten gefangen, 3 Stücke habe ich, als aus Nubien stammend, erhalten.' — Junior subjective synonym of *Lycaena eleusis* Demaison, 1888 and *Lycaena podorina* Mabille, 1890 (Staudinger, 1901: 77).

Syntypes 4♂, ♀:

- ♂ with labels: handwritten (Staudinger) 'Eleusis Demaison | Podorina Mab. | Pharaonis Stgr.' (on yellowish paper), handwritten 'Cairo', handwritten 'Ipsamb. | 18/I [18]80' (on white paper) and printed 'Origin.' (on pink paper);
- ♂ with labels: handwritten 'Cairo | 5/12 [18]79 | Eibek.' (on white paper), circle of white locality label paper and printed 'Origin.' (on pink paper);
- 2♂, ♀ with circles of white locality label paper and printed 'Origin.' (on pink paper), one male specimen has a handwritten label 'Nubien' (on white paper, in pencil).

phellodendri Staudinger, 1892

Nomen nudum. '*Thecla Herzi* Fxsn. ... *Phellodendri*...' Staudinger, 1892b: 150. Type locality: 'Christoph fing diese Art anfang Juli bei Wlad.[iwostok] auf *Phellodendron amurense* und hatte ich sie bereits als *Phellodendri* beschrieben und in einigen Stücken so versandt, zog aber dann die Beschreibung zurück, da Dr. Fixsen sie nach Stücken von Korea, die Herz sammelte, diesem zu Ehren benennen wollte.'

Syntypes 2♂, 3♀:

- ♂ with labels: handwritten (Staudinger) 'Herzi Fixsn | Phellodendri | Stgr.' (on white paper), handwritten 'Baranowsky | Dörr.[ies]' (on blue-violet paper) and printed 'Origin.' (on pink paper);
- ♂ with labels: handwritten 'Wladiwostock | Chr.[istoph]' (on blue-violet paper), handwritten (in pencil) '6.7.[18]77' (on white paper), and printed 'Origin.' (on pink paper);
- ♀ with labels: handwritten 'Ussuri | Dörr.[ies]' (on blue-violet paper), and printed 'Origin.' (on pink paper);

- ♀ with a circle of blue-violet locality label paper and labels: small handwritten '2/7', handwritten '475.' (on white paper) and printed 'Origin.' (on pink paper);
- ♀ with a circle of blue-violet locality label paper and printed label 'Origin.' (on pink paper).

***pheres* Staudinger, 1886**

'*Lyc.[aena] Pheretides* Ev. ... var. *pheres* Stgr.' Staudinger, 1886: 209. Type locality: 'Aus dem Gebirgen bei Namangan und vom südlichen Alai...'

Syntypes 10♂, 7♀:

- ♂ with labels: handwritten (Staudinger) 'v. Pheres | Stgr.' (on white paper), and 'Namangan | Hbh. [Haberhauer] [18]84' (on brown paper) and printed 'Origin.' (on pink paper);
- 7♂, 5♀ with circles of brown locality label paper and printed label 'Origin.' (on pink paper);
- ♂ with labels: handwritten (Staudinger) 'v. Pheres' (on white paper), and 'Alai | [18]85 Hbh. [Haberhauer]' (on brown paper) and printed 'Origin.' (on pink paper);
- ♂, 2♀ with circles of brown locality label paper and printed label 'Origin.' (on pink paper).

***pheretimus* Staudinger, 1892**

'*Lyc.[aena] Pheres* Hb. Var. *Pheretimus* Stgr.' Staudinger, 1892d: 317. Type locality: '...23 Stücke vom Kentei (14♂♂ und 9♀♀)...'

Syntypes 2♂, 2♀:

- ♂ with labels: handwritten (Staudinger) 'Pheretes var. /Pheretimus | Stgr.' (on white paper), and 'Kentei | [18]89 Dörr.[ies]' (on green paper), printed 'Origin.' (on pink paper);
- ♂, 2♀ with circles of green locality label paper and printed label 'Origin.' (on pink paper).

***pheretulus* Staudinger, 1886**

'*Lyc.[aena] Pheretiades* Ev. var. *Pheretulus* Stgr.' Staudinger, 1886: 209. Type locality: 'Aus den Gebirgen bei Osch und später vom Alai...'

Syntypes 9♂, 7♀:

- ♂ with labels: handwritten (Staudinger) ‘v. Pheretulus | Stgr.’ (on white paper), and ‘Osch | Hbh. [Haberhauer] [18]82’ (on brown paper), printed ‘Origin.’ (on pink paper) — Tshikolovets (1997a: 155, 238, pl. 40, figs 31(33));
- 3♂, 2♀ with circles of brown locality label paper and printed label ‘Origin.’ (on pink paper); one of the male specimens also has a small date label ‘19/7’ (on white paper) — Tshikolovets (1997a: pl. 40, figs. 34(36));
- ♂ with labels: handwritten ‘Alai | [18]85 Hbh. [Haberhauer]’ (on brown paper), printed ‘Origin.’ (on pink paper);
- 4♂, 5♀ with circles of brown locality label paper and printed label ‘Origin.’ (on pink paper).

***phiala* Groum-Grshimailo, 1890**

‘*Lycaena Phiala* Gr. Gr.’ Groum-Grshimailo, 1890: 366, pl. 21, fig. 4. Type locality: ‘J’ai trouvé la *L. Phiala*, à un nombre fort restreint d’exemplaires, dans le Kabadian’.

Paralectotype ♂:

- ♂ with labels: handwritten (Groum-Grshimailo, in Russian) ‘Kaba- /dian’, ‘12 | 5.[18]85’ (both on white paper), handwritten (Groum-Grshimailo) ‘Kabadian | Buchara’ (on pink paper), printed ‘Orig.’ (on green paper), printed ‘Coll. Gr.-Gr.’ (on white paper), handwritten (Staudinger) ‘Phiala | Gr. Gr. | [18]97 <sic>’ (on white paper).

Lectotype with the same original author’s labels is deposited in Zoological Institute, Russian Academy of Sciences, St.-Petersburg (Nekrutenko, 1984a: 31, fig. 2, 2).

***phlaeoides* Staudinger, 1901**

‘*Chrysophanus* Hb. *Phlaeas* L. v. *Phlaeoides* (Knaggs in l. ?) Stgr.’ Staudinger, 1901: 74. Type locality: ‘Mad.[eira]’.

Syntypes 3♂, ♀:

- ♂ with handwritten (Staudinger) label ‘Madeira’ (on yellowish paper);

- ♀ with circle of yellow locality label paper;
- ♂ with handwritten (Staudinger) label 'Madera <sic> | 4000' Bauer' (on yellowish paper);
- ♂ with circle of yellowish locality label paper.

The specimens are placed under a handwritten (Staudinger) drawer label 'v. *Phlaeoides* Knags? | Stgr.' (on white paper); each provided now with a printed label '*phlaeas phlaeoides* | Staudinger, 1901 | SYNTYPUS | Y. Nekrutenko det. 1998' (on white paper).

***phoenicurus* Lederer, 1869**

'*Polyomm.[atus] Phoenicurus* Led.' Lederer, 1869: 8, Taf. 1, Figs 4, 5. Type locality: '...bei Astrabad in Persien... Ich erhielt nur 13 Exemplaren' (*op. cit.*: 3).

Lectotype ♂:

- ♂ with labels: handwritten 'Hadschyabad' (on white paper), printed 'Origin.' (on pink paper), printed 'Coll. Led.' (on white paper), handwritten (Nekrutenko) on printed form 'LECTOTYPUS ♂ | *phoenicurus* Led. | Y. Nekrutenko design.' (on yellow paper) — Nekrutenko *in* Hesselbarth *et al.* (1995: 499).

Paralectotypes ♂, 2 ♀:

- ♂, 2 ♀ with labels: handwritten 'Hadschyabad' (on white paper), printed 'Origin.' (on pink paper), printed 'Coll. Led.' (on white paper), handwritten (Nekrutenko) on printed form 'PARALECTOTYPUS ♂ (♀) | *phoenicurus* Led. | Y. Nekrutenko design.' (on yellow paper) — Nekrutenko *in* Hesselbarth *et al.* (1995: 499).

***phryxis* Staudinger, 1886**

'*Lyc.[aena] Phryxis* Stgr.' Staudinger, 1886: 212. Type locality: 'Bei Margelan und Namangan wurde *Phryxis* Ende Mai gefunden, bei Osch Ende Juni und bei Samarkand Anfang Juli. Wahrscheinlich sind sie an den letzteren beiden Lokalitäten bedeutend höher gefunden.' — Junior primary homonym and junior objective synonym of *Lycaena phryxis* Lang, 1884: 372; junior subjective synonym of *Lycaena sarta* Alphéraky, 1881 (Staudinger, 1901: 85).

Syntypes 7♂, 7♀:

- ♂ with labels: handwritten (Staudinger) 'Phryxis | Stgr.' (on white paper), and 'Margelan | Hbhr. [Haberhauer]' (on brown paper), printed 'Origin.' (on pink paper);
- 3♂, 3♀ with circles of brown locality label paper and printed label 'Origin.' (on pink paper), one male specimen also has a handwritten date label '25/5 [18]80';
- ♂ with labels: handwritten (Staudinger) 'Sarta Alph.[éraky] | Phryxis Stgr.' (on white paper), handwritten 'Osch | Hbh. [Haberhauer]' (on brown paper), handwritten date label '26/6' (on white paper) and printed 'Origin.' (on pink paper);
- ♀ with circles of brown locality label paper, handwritten date label '26/6' (on white paper) and printed label 'Origin.' (on pink paper);
- ♀ with labels: handwritten 'Namangan | Hbhr. [Haberhauer] [18]84' (on brown paper), handwritten date label '23/5' (on white paper) and printed 'Origin.' (on pink paper);
- ♂ with labels: handwritten 'Prov. Samark.[and] | Hbh. [Haberhauer] [18]81' (on brown paper), handwritten date label '6/6' (on white paper) and printed 'Origin.' (on pink paper);
- ♂, 2♀ with circles of brown locality label paper, handwritten date label '26/6' (on white paper) and printed label 'Origin.' (on pink paper); the male specimen has a handwritten date label '6/9' (on white paper).

***phyllides* Staudinger, 1886**

'*Lyc.[aena] Phyllis* Chr. var. *Phyllides* Stgr.' Staudinger, 1886: 225. Type locality: '...erhielt ich in geringer Anzahl aus dem Gebirgen von Namangan, Osch, Margelan und Samarkand'.

Lectotype ♂:

- ♂ with labels: handwritten 'Namangan | Hbhr. [Haberhauer] [18]84' (on brown paper), printed 'Origin.' (on pink paper), handwritten (unknown hand) '24/5 *Lyc. sp. n. | Rogenhoferii*' (on white paper), handwritten (Forster) 'Lectotypus ♂ | *Lycaena phyllis* | var. *phyllides* Stgr. | W. Forster 1947' (on pink

paper) — Forster (1960: 138); cf. Häuser & Eckweiler (1997: 95).

Paralectotypes 10♂, 3♀:

- ♂ with labels: handwritten (Staudinger) 'v. Phyllides | Stgr.' (on white paper), handwritten 'Osch | Hbh. [Haberhauer]' (on brown paper), small date label '6/7' (on white paper), printed 'Origin.' (on pink paper);
- ♂ with circle of brown locality label paper and printed label 'Origin.' (on pink paper);
- ♂, 2♀ with circles of brown locality label paper of the lectotype ('Namangan | Hbhr. [Haberhauer] [18]84') and printed label 'Origin.' (on pink paper);
- ♂ with labels: handwritten 'Alai | [18]85 Hbh. [Haberhauer]' (on brown paper) and printed 'Origin.' (on pink paper);
- ♂ with circle of brown locality label paper and printed label 'Origin.' (on pink paper);
- ♂ with labels: handwritten 'Prov. Samark.[and] | Hbhr. [Haberhauer] [18]81' (on brown paper) and printed 'Origin.' (on pink paper);
- 4♂, ♀ with circles of brown locality label paper, small date labels '14/5', '16/5', '23/5', '24/5', '15/5' (♀) and printed label 'Origin.' (on pink paper) — cf. Häuser & Eckweiler (1997: 95).

phyllis Christoph, 1877

'*Lycaena Damon* var. *Phyllis* Stgr. in litt.' Christoph, 1877: 237, Tab. 5, Figs 9, 10. Type locality: '...bei Schahkuh den Juli hindurch im Thale und auf den Hügeln bei etwa 7000' hinauf recht häufig.'

Lectotype ♂:

- ♂ with labels: circle of yellow paper, Christoph's date label '11/7' ('11' on white, '7' on pink background, recto white/pink, verso pink), printed '327.' (on white paper faded yellow), printed 'Zool. Mus. | Berlin' (on pale yellow paper), handwritten (Forster) 'Cotypus ♂ | *Lycaena phyllis* | Christoph' (on pink paper), new handwritten (Häuser) 'Hadschyabad' (on white

paper), printed, with handwritten (Wagener, in pencil) insertion 'Abgebildet in Hesselbarth, | van Oorschoot & Wagener: | Tagfalter der Türkei | Tafel 121 Figur 33' (on white paper), printed '**Lectotypus** | *Polyommatus (Agrodiaetus)* | *phyllis* (Christoph, 1877) | des. ECKWEILER & TEN HAGEN 1998' (on red paper, in box) — Eckweiler & ten Hagen (1998: 113, Abb. 7–9); cf. Hesselbarth *et al.* (1995: 752, Taf. 121, Fig. 33, Taf. 128, Figs 66, 72); Häuser & Eckweiler (1997: 95); Eckweiler & Häuser (1997: Pl. 9).

Paralectotypes 5♂, 3♀:

- ♂ with labels: handwritten 'Schakuh | Chr.[istoph]' (on yellow paper), printed '326.' (on white paper faded yellow) and handwritten (Forster) 'Cotypus ♂ | *Lycaena phyllis* | Christoph' (on pink paper) — Forster (1960: 135);
- 3♂, 3♀ with circles of yellow locality label paper;
- ♂ with labels: handwritten 'Hadschyabad' (on white paper), printed, with handwritten insertion '*Damon* | Coll. Led.' (on white paper) — cf. Eckweiler & ten Hagen (1998: 113).
- 2♂, 2♀ designated with printed labels '**Paralectotypus** | *Polyommatus (Agrodiaetus)* | *phyllis* (Christoph, 1877) | des. ECKWEILER & TEN HAGEN 1998' (on bluish paper, in box).

poseidon Herrich-Schäffer, [1851]

'[*Lycaena*] *Poseidon* Kad.' Herrich-Schäffer, [1851] 6(48): 24. Type locality: 'Aus Kleinasien'.

Types: not found (cf. Häuser & Eckweiler, 1997: 95).

poseidon Lederer, 1852

'*Lycaena* * *Poseidon* Kdm. [Kindermann] in lit.' Lederer, 1852: 20 (nomen nudum; * designates 'was nicht echt europäisch' — *op. cit.*: 15); '*Lycaena Poseidon* Kinderm.[ann] (nicht Kaden) in lit.' Lederer, 1852: 37. Type locality: ['asiatische Türkei']?. — Junior primary homonym of *Lycaena poseidon* Herrich-Schäffer, [1851].

Types: not found (cf. Häuser & Eckweiler, 1997: 96).

poseidonides Staudinger, 1886

'*Lyc.[aena] Poseidon* var. *Poseidonides* Stgr.' Staudinger, 1886: 225. Type locality: 'Vier ♂ vom südlichen Alai sowie eins von den südlich von Samarkand gelegenden Gebirgen...'

Syntypes 5 ♂:

- ♂ with labels: handwritten (Staudinger) 'v. *Poseidonides* | Stgr.' (on white paper), handwritten 'Prov. Samark.[and] | Hbhr. [Haberhauer] [18]81' (on brown paper), small date label '12/7' (on white paper) printed 'Origin.' (on pink paper) and printed 'Zool. Mus. | Berlin' (on pale yellow paper);
- ♂ with labels: handwritten 'Alai | [18]89 Hbh. [Haberhauer]' (on brown paper), printed 'Origin.' (on pink paper) and printed 'Zool. Mus. | Berlin' (on pale yellow paper);
- ♂ with circle of locality label brown paper, handwritten (Staudinger) label 'v. *Poseidonides* | Stgr. | Alai' (on white paper) and printed 'Origin.' (on pink paper);
- 2 ♂ with circles of brown locality label paper, printed label 'Origin.' (on pink paper), one of them with printed label 'Zool. Mus. | Berlin' (on pale yellow paper) and two new handwritten labels '*poseidonides*' (in ball pencil) and 'Alai' (in pencil), both on white paper (cf. Häuser & Eckweiler, 1997: 96).

posthumus Christoph, 1877

'*Lycaena Damon* var. *Posthumus* Chr.' Christoph, 1877: 238, Tab. 5, Fig. 11. Type locality: 'Ich fand den Schmetterling nur von 9–11,000' auf dem Schahkuh-Gebirge, wo er vereinzelt im Juli flog'.

Lectotype ♂:

- ♂ with labels: handwritten 'Schahkuh | Chr.[istoph]' small date label '26/V' ('26' on white, 'V' on pink background, recto white/pink, verso pink), printed '329.' (on white paper faded yellow), handwritten (Forster) 'Cotypus ♂ | *Lycaena damon* | var. *posthumus* | Christ.' (on pink paper), printed '**Lectotypus** | *Polyommatus (Agrodiaetus)* | **posthumus** (Christoph, 1877) | des. ECKWEILER & TEN HAGEN 1998' (on red paper, in box) — Forster (1960: 141); Häuser & Eckweiler (1997: 96); Eckweiler

& Häuser (1997: Pl. 9); Eckweiler & ten Hagen (1998: 113, Abb. 10–12).

Paralectotypes 3♂, 3♀:

- ♂ with labels: handwritten (Christoph?) ‘vom 9000’ <illegible>, printed ‘330.’ (on white paper faded yellow), printed ‘Zool. Mus. | Berlin’ (on pale yellow paper), handwritten (Forster) ‘Cotypus ♂ | *Lycaena damon* | var. *posthumus* | Christ.’ (on pink paper) — Forster (1960: 141);
- ♀ with circle of yellow locality label paper;
- 2♂ with circles of yellow locality label paper and small date labels ‘8/7’ and ‘26/7’;
- ♀ with labels: circle of yellow paper, handwritten Christoph’s date label ‘2/7’, printed label ‘331.’ (on white faded yellow paper), printed ‘Zool. Mus. | Berlin’ (on pale yellow paper), handwritten (Forster) ‘Cotypus ♀ | *Lycaena damon* | var. *posthumus* | Christ.’ (on pink paper) and new ‘Astrabad | coll. Stgr.’ (on white paper) — Forster (1960: 141);
- ♀ with labels: circle of yellow paper, handwritten Christoph’s date label ‘18/7’, printed label ‘328.’ (on white faded yellow paper), handwritten (Forster) ‘Cotypus ♀ | *Lycaena damon* | var. *posthumus* | Christ.’ (on pink paper) — Forster (1960: 141); cf. Eckweiler & ten Hagen (1998: 113).

♂ and 3♀ designated with labels ‘**Paralectotypus** | *Polyommatus (Agrodiaetus)* | **posthumus** (Christoph, 1877) | des. ECKWEILER & TEN HAGEN 1998’ (on bluish paper, in box).

praemerisina Lorković, 1943

‘*Everes argiades merisina* n. Frühjahrsform *praemerisina* n.’ Lorković, 1943: 451, Taf. 25, Fig. 12, Taf. 26, Fig. 11. Type locality: ‘China, Kwang-tung, Gao-fung.’ — Infrasubspecific.

Holotype ♂:

- ♂ with labels: printed, with handwritten insertion ‘China Kwantung | *Gao fung* | 8. 5.[19]17 | R. Mell’ (on white paper), handwritten (Forster <sic>) on printed form ‘Holo-Type

<corrected to *Typus*> ♂ | *Everes argiades* | *praemerisina Lorkovic*' (on pink paper), handwritten original field label 'GF 8. V. 17 | 3 u.<?> 4 (recto) | <text in Chinese> (verso)' (on white paper, in pencil, folded);

Paratypes 6♂, 3♀:

- 5♂, 3♀ with labels: printed, with handwritten insertion 'China Kwantung | *Gao fung* | <different dates late April and early May> .[19]17 | R. Mell' (on white paper), handwritten (Forster <sic>) on printed form 'Para-Typus ♂ (♀) | *Everes argiades* | *praemerisina Lorkovic*' (on pink paper);
- ♂ with labels: printed, with handwritten insertion 'China Kwantung | *Lung tao shan* | 18. 4.[19]17 | R. Mell' (on white paper), handwritten (Forster <sic>) on printed form 'Para-Typus ♂ | *Everes argiades* | *praemerisina Lorkovic*' (on pink paper).

Some specimens have also original field labels (folded).

pretiosa Staudinger, 1886

'*Lyc.[aena] Pretiosa* Stgr.' Staudinger, 1886: 209. Type locality: 'Diese Art erhielt ich in Anzahl der Umgegend von Margelan und Namangan.' — Junior primary homonym and junior objective synonym of *Lycaena pretiosa* Lang, 1884: 370.

Syntypes 7♂, 6♀:

- ♂ with labels: handwritten (Staudinger) 'Pretiosa | Stgr.' (on white paper), handwritten 'Margelan | Hbhr. [Haberhauer]' (on brown paper) and printed 'Origin.' (on pink paper);
- 5♂, 3♀ with circles of brown locality label paper and printed 'Origin.' (on pink paper);
- ♂ with labels handwritten 'Namangan | Hbhr. [Haberhauer] [18]84' (on brown paper) and printed 'Origin.' (on pink paper);
- 3♀ with circles of brown locality label paper and printed 'Origin.' (on pink paper).

***privata* Staudinger, 1896**

‘*Lyc.[aena] Chiron* Hufn. v. *Privata* Stgr.’ Staudinger, 1896: 300. Type locality: ‘...wurden mir von Herrn R Tancré eingesandt, dessen Sammler E. Rückbeil sie in den Jahren 1892 und 1893 im Innern Tibets, zwischen dem Lob Noor und Kuku Noor, fand.’

Syntypes ♂, 2 ♀:

- ♂ with labels: handwritten (Staudinger) ‘*Chiron* var. | *Privata* | Stgr.’ (on white paper), handwritten ‘Kuku Noor | [18]94 <sic! – *lapsus calami?* – see above under *Type locality*> Rckbl. [Rückbeil]’ (on brown paper) and printed ‘Origin.’ (on pink paper);
- 2 ♀ with circles of brown locality label paper, one specimen also has a small square piece of pink paper.

***prunoides* Staudinger, 1887**

‘*Thecla Prunoides* Stgr.’ Staudinger, 1887b: 129, pl. 6, fig. 1, a, b. Type locality: ‘...besitze ich 1 ♂ und 3 ♀ ♀, die Christoph Mitte Juli bei Wladiwostok fing, so wie ein (altes) ♀, das Kindermann 1852 bei Ust-Kamenogorsk im Altai-Gebiet fand und das in Lederer’s Sammlung steckte.’

Syntypes ♂, 4 ♀:

- ♂ with labels: handwritten (Staudinger) ‘*Prunoides* | Stgr. in litt.’ (on white paper), handwritten ‘Wladiwostock | Chr.[istoph]’ (on blue paper), small handwritten ‘16/7’ (recto white, verso red), printed ‘Origin.’ (on pink paper);
- 3 ♀ with circles of blue locality label paper, small handwritten labels ‘16 | 7’, ‘10 | 7’, ‘16’ and printed ‘Origin.’ (on pink paper);
- ♀ with labels: circle of blue paper, handwritten ‘Ustkam.[enogorsk] | 1852’ (on white paper), printed, with handwritten insertion ‘*W-album*’ <sic> | Coll. Led.’ (on white paper), printed ‘Origin.’ (on pink paper).

***pseudocyanea* Forster, 1956**

‘*Agrodiaetus xerxes pseudocyanea* ssp. nov.’ Forster, 1956: 120, Taf. 12, Figs 6, 7, Taf. 13, Figs 6, 7. Type locality: ‘Achalzich’. — Junior subjective synonym of *Lycaena damone cyanea* Staudinger, 1899 (Carbonell, 2000: 213, 215).

Holotype. ♂:

- ♂ with labels: handwritten 'Achalzich | Hbhr. [Haberhauer] [18]82' (on green paper), small handwritten '24/5' ('24' on white background, '5' on pink background; recto white/pink, verso pink), printed '319.' (on white paper faded yellow), printed 'Origin.' (on pink paper), printed 'Zool. Mus. | Berlin' (on pale yellow paper), handwritten (Forster) on printed form 'Cotypus | *Lycaena damone* | *cyanea* Stgr.' (on pink paper), handwritten (Forster) on printed form 'Holo-Typus <overwritten to correct 'Type'> ♂ | *Polyommatus xerxes* | *pseudocyanea* Forster | W. Forster München' (on pink paper), printed, with handwritten (Wagener, in pencil) insertions 'Abgebildet in Hesselbarth, | van Oorschot & Wagener: | Tagfalter der Türkei | Tafel 123 Figur 37' (on white paper) — Forster (1956: Taf. 12, Fig. 6, Taf. 13, Fig. 6); Hesselbarth *et al.* (1995: Taf. 123, Fig. 37); Häuser & Eckweiler (1997: 97); see also *cyanea* Lederer paralectotype above.

Allotype ♀:

- ♀ with labels: small handwritten date label '4/6 <or 4/8?>', printed '320.' (on white paper faded yellow), printed 'Origin.' (on pink paper), printed 'Zool. Mus. | Berlin' (on pale yellow paper), handwritten (Forster) on printed form 'Co-Typus ♀ | *Lycaena damone* | *cyanea* Stgr.' (on pink paper), handwritten (Forster) on printed form 'Allo-Typus <overwritten to correct 'Type'> ♀ | *Polyommatus xerxes* | *pseudocyanea* Forster | W. Forster München' (on pink paper), printed, with handwritten (Wagener, in pencil) insertions 'Abgebildet in Hesselbarth, | van Oorschot & Wagener: | Tagfalter der Türkei | Tafel 124 Figur 50' (on white paper) — Forster (1956: Taf. 12, Fig. 7, Taf. 13, Fig. 7); Hesselbarth *et al.* (1995: Taf. 124, Fig. 50).

***pseudoxerxes* Forster, 1956**

'*Agrodiaetus carmon pseudoxerxes* ssp. nov.' Forster, 1956: 118, Taf. 9, Figs 3–5, Taf. 13, Figs 3–5. Type locality: 'Persia s.[eptentrionale] Elburs mts., Schahkuh' (holotype).

Paratypes 8 ♂, 12 ♀:

- ♂ with labels: handwritten 'Schakuh | Chr.[istoph]' (on yellow paper), small date label '9/7', a small square piece of paper; printed 'Zool. Mus. | Berlin' (on pale yellow paper), handwritten (Forster) on printed form 'Para-Typus ♂ | *Agrodiaetus carmon* | *pseudoxerxes* Forster | W. Forster München' (on pink paper, in box);
- ♀ with labels: circle of yellow paper, printed '290.' (on white to yellow paper), handwritten (Forster) on printed form 'Para-Typus ♀ | *Agrodiaetus carmon* | *pseudoxerxes* Forster | W. Forster München' (on pink paper, in box) and handwritten (Wagener) 'Schahkuh | Chr.[istoph]' (on white paper);
- ♂ with labels: circle of yellow paper, small date label '15/7', printed '298.' (on white to yellow paper) and handwritten (Forster) on printed form 'Para-Typus ♂ | *Agrodiaetus carmon* | *pseudoxerxes* Forster | W. Forster München' (on pink paper, in box);
- 3 ♂, ♀ with same circles of yellow paper and small date labels that apparently belong to the type series;
- ♂ with labels: printed, with handwritten insertions 'HYRCANIA, (Schahkuh) | *Funke 1898*' (on white paper, in box), handwritten (Püngeler) 'carmon' (on white cross-lined notebook paper) and handwritten (Forster) on printed form 'Para-Typus ♂ (♀) | *Agrodiaetus carmon* | *pseudoxerxes* Forster | W. Forster München' (on pink paper);
- 2 ♂, 9 ♀ with labels: printed, with handwritten insertions 'HYRCANIA, (Schahkuh) | <some with different dates>' (on white paper, in box), handwritten (Püngeler) and handwritten (Forster) on printed form 'Para-Typus ♂ (♀) | *Agrodiaetus carmon* | *pseudoxerxes* Forster | W. Forster München' (on pink paper);
- ♀ with labels: handwritten 'Hyrkania' (on white paper, in box) and handwritten (Forster) on printed form 'Para-Typus ♂ (♀) | *Agrodiaetus carmon* | *pseudoxerxes* Forster | W. Forster München' (on pink paper) — see also Häuser & Eckweiler (1997: 97).

***psittacus* Herrich-Schäffer, [1844]**

'*Lycaena Psittacus*' Herrich-Schäffer, [1844] 1(7): Tab. 48, Figs 220–223; [1845] 1(10): 129. Type locality: 'Aus der Türkei, auch von der asiatischen Seite.' — Junior subjective synonym of *Lycaena balkanica* Freyer, [1843] (Staudinger, 1871a: 9; 1901: 76).

Types: not found.

***psylorita* Freyer, [1845]**

'*Lycaena Pap.[ilio] Psylorita*' Freyer, [1845] 5(79): 146, Tab. 469, Figs 3, 4. Type locality: 'Von Dr. Frivaldzky <sic> habe ich zwei Exemplare von diesem Tagfalter unter obigen Namen erhalten... Nach der mir von Herrn Dr. Frivaldzky <sic> gegebenen Nachricht fliegt dieser Falter im Juni auf dem Berge Ida auf der Insel Creta'.

Syntype ♂:

- ♂ with labels: handwritten 'Psylorita | Friv. H Sch. f. 328–31 | Frey. n. B. t. 469. | Creta Friv.' (on white paper, in printed box), printed '4713' (on white paper).

Catalogus Generalis: 4713 — see Appendix.

The specimen is provided now with a printed label '*psylorita* Freyer, [1845] | SYNTYPUS | Y. Nekrutenko det. 30.11.1998' (on yellow paper).

***pusillargus* Strand, 1919**

'*Lycaena semiargus* Rott. f. *pusillargus* m.' Strand, 1919: 18. Type locality: 'Marburg'. — Infrasubspecific.

Holotype ♀ (by monotypy):

- ♀ with labels: printed 'Deutschland | Marburg i.[n] H.[essen] | E. Strand, [190]8. | 7.07' (on white paper), handwritten (Strand) on printed form *Lycaena* | *semiargus* | Rott. f. *pu* | *silargus* <sic> m. ♀ | Strand det.' (on white paper) and printed 'Type' (on dirty-pink paper).

***quercivora* Staudinger, 1887**

'*Thecla Quercivora* Stgr.' Staudinger, 1887b: 137, pl. 6, fig. 2, a, b. Type locality: [Amur-Gebiet]: '...erhielt ich nur drei erzogene Stücke durch Dörries, die mir alle Weibchen zu sein scheinen'.

Syntypes 3 ♀:

- ♀ with labels: handwritten (Staudinger) ‘Signata | Butl. | Quercivora | Stgr.’ (on white paper), handwritten ‘Askold | [18]83 Dörr.[ies]’ (on violet-blue paper), small handwritten ‘11’ and printed ‘Origin.’ (on pink paper);
- ♀ with labels: handwritten ‘Suifun | [18]85 Dörr.[ies]’ (on violet-blue paper) and printed ‘Origin.’ (on pink paper);
- ♀ with circle of blue locality label paper and printed ‘Origin.’ (on pink paper).

quercus Kardakoff, 1928

‘*Zephyrus taxila* Brem. f. ♀ *quercus* (nom. coll.)’ Kardakoff, 1928: 271, Taf. 7, Fig. 16.
Type locality: ‘...aus dem Ussurigebiet...’ — Infrasubspecific.

Syntype ♀:

- ♀ with labels: printed, with handwritten (Kardakoff?) insertion ‘*Sidemi* Ussurigebiet | 5.8. 1921. N. Kardakoff’ (on white paper), handwritten (Kardakoff?) ‘*Zephyrus taxila* Brem L. | f. ♀ *quercus* Kardakoff’ (on white paper) and printed ‘Typus’ (on red paper, in box).

The specimen is placed under typewritten drawer label ‘f. ♀ *quercus*’ <underlined with red pencil> (on a stripe of white paper, in blue type ribbon).

rebeli Hirschke, 1905

‘*Lycaena Alcon* F. v. *Rebeli*’ Hirschke, 1905: 110, Taf. 2, Figs 1, 2. Type locality: ‘Den ganzen Sommer 1904 verbrachte ich in Steiermark und erbeutete dort im zirka 1700 m Höhe eine auffallende, in beiden Geschlechtern äußerst constante *Lycaena*-Form... Von den in Anzahl erbeuteten Exemplaren, welche untereinander keine Abweichungen zeigen, lagen zur Beschreibung 4 ♂ und 4 ♀ vor.’

Syntypes 2 ♂, ♀:

- 2 ♂, ♀ with labels: printed, with handwritten (Hirschke?) insertion ‘Hirschke. Wien | *Styria* | VII. 1904 | *Co=Typ* (recto) | *alcon* var. | *Rebeli* ♂ (♀) | *Cotype* <double underlined> | I/[19]06 v.[om] H. Hirschke (verso, written by Püngeler)’ (on white paper, recto in printed box), handwritten (Püngeler) on

printed form 'Cotype <underlined> | v. *Rebeli Hirschke* ♂ (♀)
| vom Autor | Püngeler' (on pink paper).

The specimens are placed under a handwritten (Püngeler) drawer label 'Alcon F. | v. *Rebeli Hirschke*' (on white paper, in printed box).

***rezniceki* Bartel, 1904**

'*Lycaena coridon* var. *rezniceki* nov. var.' Bartel, 1904: 117. Type locality: 'Eine weitere, noch unbeschriebene Lokalform von *Lyc. coridon* kommt an der Riviera vor.' 'Fluggebiet: Rapallo (Riviera di Levante 1.–10. Juni 1904), Monte Carlo (10.–13. Juni 1904, E. v. Reznicek). – Auch von Bordhigera und Nizza bekannt.'

Syntype ♂:

- ♂ with labels: printed 'Gall.[ia] mer.[idionalis] or.[ientalis] | Riviera V ♂ | coll. M. Bartel' (on white paper, in box), handwritten (Püngeler) on printed form 'Cotype <underlined> | v. *Rezniceki Bartel* | ♂ | vom Autor | 2.1905 | Püngeler' (on pink paper).

***rileyi* Forster, 1940**

'*Zephyrus rileyi* spec. nov.' Forster, 1940: 871, Taf. 22, Figs 1, 2, Taf. 23, Figs 1, 2. Type locality (holotype): 'China, Kwangtung, Lin ping.'

Holotype ♂:

- ♂ with labels: printed, with handwritten insertion 'China Kwantung | *Lin ping* | 25.5.[19]21 | R. Mell' (on white paper), handwritten (Mell) 'Lp [Ling ping] 25.V.[19]21' (on white paper, in pencil, folded), printed 'Zool. Mus. | Berlin' (on pale yellow paper), handwritten (Forster) on printed form 'Holotype ♂ | *Thecla (Zephyrus) rileyi* Forst. | W. Forster München' (on pink paper, in box), printed, with handwritten (Howarth) insertion 'T.G.H. | 1955 | 152' (on white paper), two printed, with handwritten (Howarth) insertion 'Neg. No. 17767' and 'Neg. No. 17768' (both on white paper).

Allotype ♀:

- ♀ (abdomen missing), with labels: printed, with handwritten insertion 'China Kwantung | *Lung tao shan* | 30.6.[19]17 |

R. Mell' (on white paper), handwritten (Mell) field label 'Dr 30.VI.[19]17' (on white paper, in pencil, verso with text in Chinese in Indian ink, folded), printed 'Zool. Mus. | Berlin' (on pale yellow paper), handwritten (Forster) on printed form 'Allo-Type ♀ | *Thecla (Zephyrus)* | *rileyi* Forst. | W. Forster München' (on pink paper, in box), printed, with handwritten (Howarth) insertion 'Neg. No. 17764' (on white paper).

Paratypes 2 ♀:

- ♀ with labels: printed, with handwritten insertion 'China Kwantung | *Lung tao shan* | 30.6.[19]17 | R. Mell' (on white paper), handwritten (Mell) field label 'Dr 30.VI.17' (on white paper, in pencil, verso with text in Chinese in Indian ink and 'Zeph. paraiberica' <?>, folded), printed 'Zool. Mus. | Berlin' (on pale yellow paper), handwritten (Forster) on printed form 'Para-Type ♀ | *Thecla (Zephyrus)* | *rileyi* Forst. | Dr. W. Forster München' (on pink paper, in box);
- ♀ with labels: printed, with handwritten insertion 'China Kwantung | *Lung tao shan* | 12.6.[19]17 | R. Mell' (on white paper), handwritten (Mell) field label 'Dr 12.VI.17' (on white paper cut from a newsletter, in pencil, verso with text in Chinese in Indian ink and <illegible> <?>, folded), printed 'Zool. Mus. | Berlin' (on pale yellow paper), handwritten (Forster) on printed form 'Para-Type ♀ | *Thecla (Zephyrus)* | *rileyi* Forst. | Dr. W. Forster München' (on pink paper, in box).

The holotype and allotype are figured by Forster (*op. cit.*) on Tafel 22 and 23, Abb. 1, 2; when compared to the present state of the specimens, it becomes clear that they were exposed to high humidity and an apparently inaccurate treatment, resulting in changes in the position of the wings and antennae and the loss of the abdomen.

***rippertii* Boisduval, 1832**

'*Argus Rippertii*' Boisduval, 1832: 68, pl. 16, figs 4–6. Type locality: '...aux environs de Digne, ou il a été découvert en 1829 par M. Rippert de Beaugency...' — Junior subjective synonym of *Lycaena ripartii* Freyer, 1830.

Syntypes 2♂, ♀:

- ♂ with labels: handwritten 'Rippertii | Boisd.[uval] Ic. Hb. f. 958 | Frey. H Sch. | Alp.[ae] Gallopr.[ovinciales] Boisd' (on white paper, in printed box), printed '4715' (on white paper);
- ♂, ♀ without any label.

Catalogus Generalis: 4715 — see Appendix; cf. Häuser & Eckweiler (1997: 99).

The specimens are provided now with a printed label '*rippertii* Boisdual, [1832] | SYNTYPUS | Y. Nekrutenko det. 30.11.1998' (on yellow paper). For a lectotype designation see Bálint (1999: 54–55): the present specimens thus become paralectotypes.

***romanovi* Christoph, 1882**

'*Thestor Romanovi* n. sp.' Christoph, 1882: 106. Type locality: 'Hier folgt die Beschreibung einiger als neu erkannter, fast nur von Ordubat stammenden Arten' (op. cit.: 106).

Paralectotypes 4♂, 2♀:

- ♂ with handwritten label 'Ordubat | Cauc.[asus] m.[eridionalis] or.[ientalis] | Chr.[istoph]' (on green paper);
- ♂ with handwritten label 'Ordubat | | Chr.[istoph]' (on green paper) and small elongated handwritten (Christoph) label 'Ordub.[at] 32.5.[18]81' (on white paper, in much faded ink);
- 2♂, 2♀ with circles of green locality label paper; of these, two male specimens with small elongated handwritten (Christoph) label 'Ordub.[at] 32.5.[18]81' (on white paper, in much faded ink), two female specimens with small handwritten (Christoph) date labels '15/5' and '24/5' (recto yellowish white, verso deep blue, almost black).

Lectotype designated by Nekrutenko *in* Hesselbarth *et al.*, 1995: 506 (deposited in Zoological Institute, Russian Academy of Sciences, St.-Petersburg, Russia). Additional evidence in support to the label date of forementioned specimens as belonging, as an integral part, to Christoph's type series who shared it with Staudinger, a quotation from Romanoff (1884: 48) is given: '*Romanovi* Chr.

(Pl. I, fig. 1 et 2). — C'est au printemps de 1881 que M. Christoph a découvert ce nouveau *Thestor* dans les environs d'Ordoubad.' The specimens are provided now with labels 'romanovi | Christoph, 1882 | PARALECTOTYPUS | Y. Nekrutenko det. 13.11.1998' (on yellow paper) (ICZN Art. 74.1.3, Recommendation 74F).

rosacea Austaut, 1885

'*Lycaena Theophrastus* Fabr. v. *Rosacea*' Austaut, 1885: 141. Type locality: '...est fondée sur une douzaine d'exemplaires ♂ que j'ai reçus des hauteurs situées entre El-Arricha et le Maroc.'

Syntypes 4♂:

- ♂ with labels: handwritten (Staudinger) 'v. Rosacea | Aust.[aut]' (on white paper), handwritten (Staudinger) 'Marocco | Aust.[aut]' (on white paper) and printed 'Origin.' (on pink paper);
- 3♂ with circles of white locality label paper and printed 'Origin.' (on pink paper).

rueckbeili Forster, 1960

'*Agrodiaetus iphigenia rüeckbeili* ssp. (f. alt?) nov.' Forster, 1960: 126, Taf. 10, Figs 21, 22, Taf. 11, Figs 21, 22. Type locality (holotype): 'Ost-Turkestan, Aksu 1900 leg. Rückbeil'.

Paratypes 3♂:

- ♂ with labels: printed, with handwritten (Püngeler) insertions 'Ost-Turkestan | (Aksu) | Rückbeil 1900' and handwritten (Forster) on printed form 'Para-Typus ♂ | *Polyommatus (Agrodiaetus) | iphigenia rüeckbeili Forst.* | W. Forster München' (on pink paper, in box);
- 2♂ with labels: printed, with handwritten (Püngeler) insertions 'Ost-Turkestan | (Aksu) | Rückbeil 1900' and handwritten (Forster) on printed form 'Para-Typus ♂ | *Polyommatus (Agrodiaetus) | iphigenia rüeckbeili Forst.* | W. Forster München' (on pink paper, in box) — cf. Forster *op. cit.*: 126 under *Variabilität* entry; Häuser & Eckweiler (1997: 100).

rufopunctatus Neuburger, 1907

'*Lycaena icarus* Rott. ab. *rufopunctatus*' Neuburger, 1907: 180. Type locality: 'Beschrieben nach einem ♂ aus Beirut in Syrien...' — Infrasubspecific.

Holotype ♂ (by monotypy):

- ♂ with labels: printed 'Syria | Beirut | Neuburger' (on white paper, in box), large handwritten (Neuburger?) 'Lycaena icarus Rott. | ab. rubropunctatus | Neubgr.' (on white faded yellowish lined notebook paper), printed 'Type' (on pink-brownish paper).

rutilans Staudinger, 1886

'*Lyc.[aena] Rutilans* Stgr.' Staudinger, 1886: 208. Type locality: 'Diese interessante neue Art erhielt ich erst kürzlich in 12 meist nicht ganz reinen Stücken vom südlichen Alai, wo sie im Juni (oder Juli) von Haberhauer und Maurer gefunden wurden.'

Syntypes 6♂, 2♀:

- ♂ with labels: handwritten (Staudinger) 'Rutilans | Stgr.' (on white paper), handwritten 'Alai | [18]85 Hbh. [Haberhauer]' (on brown paper) and printed 'Origin.' (on pink paper) — figured in Tshikolovets (1997b: 36, figs 5, 6);
- 5♂, 2♀ with circles of brown locality label paper and printed 'Origin.' (on pink paper).

saphirina Staudinger, 1887

'*Thecla Saphirina* Stgr.' Staudinger, 1887b: 135, pl. 16, figs 3–5. Type locality: '...aus dem Amur-Gebiet erhielt ich nur ein ♂ und 2 ♀♀ von der Insel Askold durch Dörries...'

Syntypes ♂, 2♀:

- ♂ (abdomen missing), with labels: handwritten (Staudinger) 'Saphirina | Stgr.' (on white paper), handwritten 'Askold | Dör.[ries]' (on bluish paper), printed 'Origin.' (on pink paper), two handwritten (Dantchenko) in red ink '♂ saphirinus | 8.03.96 | Dantchenko | abdomen' and '1' (both on white paper);
- 2♀ with circles of bluish locality label paper and printed label 'Origin.' (on pink paper).

***sarthus* Staudinger, 1886**

'*Pol.[yommatus] Sarthus* Stgr. n. sp.' Staudinger, 1886: 202. Type locality: 'Von dieser neuen Art erhielt ich im vorigen Jahre nur 4 Stücke (3 ♂ 1 ♀) von den Herren Haberhauer und Maurer, die sie im südlichen Alai Gebirge, wohl beim Kara Kasuk Paß gefangen haben.'

Syntypes 3 ♂, ♀:

- ♂ with labels: handwritten (Staudinger) 'Sarthus | Stgr.' (on white paper), handwritten 'Alai | [18]85 Hbh. [Haberhauer]' (on brown paper) and printed 'Origin.' (on pink paper);
- 2 ♂, ♀ with circles of brown locality label paper and printed 'Origin.' (on pink paper).

***sassanides* Kollar, 1849**

'*Thecla Sassanides* Kllr.' Kollar, 1849: 10. Type locality: not specified; 'Südpersien'.

Syntypes 2 ♂:

- ♂ with labels: handwritten 'Sassanides | Koll.[ar] Verh. Wien. Ac. | I p. 10 | Persia Kollar' (recto yellow, in printed box, verso white), printed '4117' (on white paper);
- ♂, pinned underside up, with a printed label '4340' (on white paper).

Catalogus Generalis: 4340 — see Appendix.

The specimens are provided now with a printed label '*sassanides* Kollar, 1849 | SYNTYPUS | Y. Nekrutenko det. 29.11.1998' (on yellow paper).

***satraps* Staudinger, 1878**

'*Pol.[yommatus] Satraps* (Ld. coll.) Stgr. n. sp.' Staudinger, 1878: 230. Type locality: 'Unter diesem Namen hatte Lederer ein abgeflogenes ♂ aus Külek, von ihm selbst gefangen, in seiner Sammlung stecken. Haberhauer fing 1875 eine grössere Anzahl bei Tersus (sic; recte Tarsus) und Dorak (auch Taurus)...' — Junior subjective synonym of *Polyommatus asabinus* Herrich-Schäffer, [1851] (Staudinger, 1881: 65).

Lectotype ♂:

- ♂ with labels: handwritten 'Taurus | Hbhr. [Haberhauer]' (on yellow paper), printed 'Origin.' (on pink paper), printed 'Zool. Mus. | Berlin' (on pale yellow paper), handwritten '28', handwritten (Nekrutenko) on printed form 'LECTOTYPUS ♂ | *satraps Stgr.* | Y. Nekrutenko design.' (on yellow paper) — Nekrutenko in Hesselbarth *et al.* (1995: 494).

Paralectotypes 10♂, 6♀:

- 9♂, 5♀ with circles of yellow locality label paper and printed labels 'Origin.' (on pink paper); one male has handwritten labels 'Küle' (on white paper) and (Lederer) 'Satraps m.[ihi]' (on white paper, in printed box), printed 'Coll. Led.' (on white paper) and 'Origin.' (on pink paper);
- ♂, ♀ with labels: handwritten (Püngeler) 'Taurus' (on white paper, in printed box) and handwritten (Püngeler) on printed form 'Cotype <underlined> | v. *satraps Stgr.* ♂ (♀) | vom Autor | Püngeler' (on pink paper).

The specimens are placed under a handwritten (Püngeler) drawer label 'Asabinus HS. | v. *Satraps Stgr.*' (on white paper, in printed box).

schmidti Kardakoff, 1928

'*Lycaena orion* Pall. ab. *schmidti* (nov.)' Kardakoff, 1928: 272, Taf. 7, Fig. 18. Type locality: 'Gefangene ♂♂ am 9.V. in der Umg.[egend] v.[on] Wladiwostok.' — Infrasubspecific.

Syntype ♂:

- ♂ with labels: printed, with handwritten (Kardakoff?) insertion 'Wladiwostok | S. Ussurigebiet | 9.V. 1921. N. Kardakoff' (on white paper), handwritten (Kardakoff?) 'Lycaena orion Pall. | ab. *schmidti* Kardakoff' (on white paper) and printed 'Typus' (on red paper, in box).

The specimen is placed under a typewritten drawer label 'ab. *schmidti*' <underlined with red pencil> (on a stripe of white paper, in blue type ribbon).

scudderi Möschler, 1874

'*Lycaena Scudderi* Edw. Proc. Ac. Nat. Sc. Phil. 1861, p. 164' Möschler, 1874: 155. Type locality: 'in einigen Exemplaren von Labrador erhielt...' — Misidentified; junior primary homonym of *Lycaena scudderi* Edwards, 1861; oldest available name: *Lycaena aster* Edwards, 1882 (Staudinger, 1901: 79).

Syntype ♂:

- ♂ with labels: handwritten (Püngeler) 'Labrador m.[eridionalis] | Scudderi Möschl. ♂, | Cotype, <underlined> 12. [18]75 v.[om] Möschler' (on white paper), handwritten (Püngeler) on printed form 'Cotype <underlined> | *Scudderi Möschl.* ? | *Püngeler*' (on pink paper).

The specimen is placed under a handwritten (Püngeler) drawer label 'Aster Edw.' (on white paper, in printed box). As may be seen from the label, the specimen was received by Püngeler from Möschler in December 1875 (he was then 18!) and was later on designated as a 'Cotype'. The question mark on the pink label apparently related not to the specimen status as a syntype, but rather to its identity with *aster* Edwards (cf. drawer label).

scylla Staudinger, 1887

'*Lycaena Scylla* Stgr.' Staudinger, 1887b: 139, pl. 16, fig. 7. Type locality: '...erhielt ich in grösserer Anzahl durch Christoph, die sie von Ende Juni bis mitte Juli bei Raddefka fand.' — Junior primary homonym of *Lycaena scylla* Oberthür, 1880, junior primary homonym and junior objective synonym of *Lycaena scylla* Lang, 1884; junior subjective synonym of *Lycaena lycornas* Butler, 1866 (Staudinger, 1901: 88).

Syntypes 9♂, 3♀:

- ♂ with labels: handwritten (Staudinger) 'Scylla | Stgr.' (on white paper), handwritten (Staudinger) 'lycornas | Butl.' (on cross-lined notebook white paper), handwritten (Staudinger) 'Ob Lycornas Butl.?' (on white paper) handwritten 'Raddefskaja | Chr.[istoph]' (on violet-blue paper) and printed 'Origin.' (on pink paper);
- 7♂, 3♀ with circles of violet-blue locality label paper and printed label 'Origin.' (on pink paper);
- ♂ with labels: handwritten 'Ussuri | Dörr.[ies]' (on violet-blue paper) and printed 'Origin.' (on pink paper).

septentrionalis Grum-Grshimaïlo

Unpublished.

Syntypes ♂, ♀:

- ♂ with labels: handwritten (Grum-Grshimaïlo?) 'Ural mer. | [18]88 Gr. Gr.' (on green paper), 'Ural | Donz.[elii] | v. Septentrio- | nalis G-G' (on white paper, in red ink), handwritten (Grum-Grshimaïlo, in Russian) 'Salda | VII [18]88' (on white paper);
- ♀ with a circle of green locality label paper and handwritten (Grum-Grshimaïlo, in Russian) 'Salda | VI [18]88' (on white paper).

As evidence in support that this material was collected by Grum-Grshimaïlo during his expedition to the Ural, a quotation from his itinerary description follows: 'Next 1888 Grigoriy Efimovich (first and patronymic names of Grum-Grshimaïlo), on his own funds, with just a limited support of the Academy of Sciences of the Zoological Museum, has undertaken an expedition to the Central Ural. The aim of the voyage remained the same: mostly zoogeographical.

G. E. started a survey of the Central Ural from the South, from Zlatoust, and concluded at the Irbit latitude. On his arrival back, he forwarded all his entomological collections to the Zoological Museum.' (Grumm-Grshimaïlo, 1947: 26).

Salda is a populated place in Sverdlovskaya Oblast' (Russian Federation), on a river with the same name (ca. 170 km N of Yekaterinburg, 58° 21' 17" N, 60° 18' 9" E).

sibirica Staudinger, 1892

'*Lyc.[aena] Optilete* Fab. var. *Cyparissus* Hb. (var. *Sibirica* Stgr.)' Staudinger, 1892d: 317.
Type locality: '...in Anzahl vom Kentei...'

Syntypes 5♂, 3♀:

- ♂ with labels: handwritten (Staudinger) 'var. *Sibirica* | Stgr.' (on white paper), handwritten 'Kentei | [18]89 Dörr.[ies]' (on green paper) and printed 'Origin.' (on pink paper);

- 4♂, 3♀ with circles of the green locality label paper and printed label ‘Origin.’ (on pink paper).

sibirica Staudinger, 1899

‘*Lycaena*’ *Damone* Ev. var. *Sibirica*’ Staudinger, 1899: 139. Type locality: ‘...vom Altai und Tarbagatai...’ — Junior primary homonym of *Lycaena optilete sibirica* Staudinger, 1892; oldest available name: *Lycaena altaica* Elwes, 1899.

Syntypes 4(6?) ♂:

- ♂ with labels: handwritten (Staudinger) ‘var. | Sibirica | Stgr.’ (on white paper), ‘Saisan | Hbhr. [Haberhauer]’ (on brown paper), handwritten date label ‘1/8’, handwritten ‘66’ and printed ‘Origin.’ (on pink paper);
- 3♂ with circles of brown locality label paper, two of them with printed ‘Origin.’ (on pink paper);
- ?-♂ with labels: handwritten (O. Bang-Haas) large ‘Damone’ with glued handwritten (Staudinger) ‘Sibirica | Stgr’ (on white paper, Bang-Haas in pencil, Staudinger in black ink), printed ‘Ongodai, | Altai Mts., | Berezowsky, | 1898’ and printed ‘Origin.’ (on pink paper) (apparently a subsequent designation by Bang-Haas);
- ?-♂ with labels: handwritten ‘Altai alp.[es] (recto) | Damone var. | Sibirica ♂ | von | A. Bang-Haas 1/[19]02 (verso)’ (on white paper, recto in printed box), handwritten (Püngeler) on printed form ‘Cotype <underlined> | v. *sibirica* Stgr. ♂ | v.[on] B.-Haas | Püngeler’ (on pink paper) and handwritten (Forster) on printed form ‘*Polyommatus* | (*Agrodiaetus*) ♂ | *damone* | *sibirica* Stgr. | det. W. Forster 1944 (or 47?)’ (on white paper) — see also (Häuser & Eckweiler, 1997: 102).

In the Staudinger collection there are ♂ and 2♀ with printed labels ‘Ongodai | Altai Mts. | 3-5000 feet | June [18]98 <12 July overwritten in red ink> A. Jacobson’, one male and one female specimens have printed labels ‘380’ and ‘381’ (on white paper faded yellow) and handwritten (Forster) labels on printed form ‘*Polyommatus* | (*Agrodiaetus*) | *damone* ♂ (♀) | *sibirica* Stgr. | det W. Forster 1947’ (on white paper), all have printed labels ‘Zool. Mus. | Berlin’ (on pale yellow paper). Male specimen has a

handwritten (Bálint) label on printed (in red ink) form 'Lectotypus | *P. (Agrodiaetus) | sibiricus* Stgr. (recto) | *des. by* | *Zs. Bálint 1989.I* (verso)' (on white paper, recto in box); female (without printed number label) 'Paralectotypus | *P. (Agrodiaetus) | sibiricus* Stgr. (recto) | *des. by* | *Zs. Bálint 1989.I* (verso)' (on white paper, recto in box).

The designation above is unavailable for two reasons: (1) it has never been published; (2) the specimens designated do not belong to the type series (not designated with Staudinger's 'Origin.' labels, apparently received by Staudinger after the original description was published);

The specimens are placed under a handwritten (Püngeler) drawer label 'Damone Ev. | v. Sibirica Stgr.' (on white paper, in printed box); provided with printed labels: 'Designatio per schedam | IRRITA: | non syntypus, non edita | Y. Nekrutenko det. 3.12.1998' (on violet paper).

sidemina Kardakoff, 1928

'*Zephyrus taxila* Brem. ab. *sidemina* (nov.)' Kardakoff, 1928: 271, Taf. 7, Fig. 17. Type locality: 'Ich habe nur ein ♂ gefangen. ... Gefangen am 16.VII in Sidemi'. — Infrasubspecific.

Holotype ♂ (by monotypy):

- ♂ with labels: printed, with handwritten insertion 'Sidemi Ussurigebiet | 29.7. 1921. N. Kardakoff' (on white paper), handwritten (Kardakoff?) 'Zephyrus taxila Brem L. | ab sidemina Kardakoff' (on white paper) and printed 'Typus' (on red paper, in box).

The specimen is placed under a typewritten drawer label 'ab. sidemina' <underlined with red pencil> (on a stripe of white paper, in blue type ribbon).

sieversii Christoph, 1873

'[*Lycaena*] *Sieversii* Chr.' Christoph, 1873: 23, Tab. 1, Fig. 1, 2. Type locality: 'war sowohl bei Tasch, als auch Schahkuh, von 4–10,000', stets vereinzelt zu finden'.

Syntypes 4♂, ♀:

- ♂ with labels: handwritten (Christoph) ‘Fasch <sic> | Chr.[istoph]’ (on yellow paper), printed ‘Origin.’ (on pink paper);
- ♂, ♀ with circles of yellow locality label paper and with small date labels ‘18/7’ and ‘1/6’;
- ♂ with labels: handwritten (Christoph) ‘Schahkuh | Chr.[istoph]’ (on yellow paper), printed ‘Origin.’ (on pink paper);
- ♂ with circles of yellow locality label paper and with small date label ‘16/6’.
- 3♀ not designated with Staudinger’s ‘Origin.’ label, also have Christoph’s small date labels.

The specimens are placed under a handwritten drawer label ‘Siewersii | Chr. | Mirza Stgr.’ (on white paper, in printed box), each provided now with a printed label ‘*siewersii* Christoph, 1873 | *mirza* Staudinger, 1874 | SYNTYPUS | Y. Nekrutenko det. 1.12.1998’ (on yellow paper) — see *mirza* above.

sinensis Alphéraky, 1881

‘*L.[ycaena]* *Sinensis* Alph. n. sp.’ Alphéraky, 1881: 383, tab. 14, fig. 7. Type locality: ‘district de Kouldjà... sur l’un des promontoires du Tian-Chan’.

Syntypes 2♂:

- ♂ (hindwings and abdomen missing) with labels: handwritten (Alphéraky) ‘Th.[ecla] *Sinensis* | Alph.[éraky] /Tian-Chan’ (on white paper), circle of brown paper, small date label ‘14/V [1879]’ and printed ‘Origin.’ (on pink paper);
- ♂ with labels: handwritten ‘Tian Schan | Alph.[éraky]’ (on brown paper), and a small date label ‘14/V [1879]’.

The specimens are provided now with a printed label ‘*sinensis* | Alphéraky, 1881 | SYNTYPUS | Y. Nekrutenko det. 3.12.1998’ (on yellow paper).

***splendens* Staudinger, 1881**

'*Polyomm.[atus] Splendens* Stgr. n. sp.' Staudinger, 1881: 280. Type locality: 'Von dieser wohl sicher hoch gefangenen Art sandte Haberhauer 20 Stücke ein...' (*l. c.*: 280), 'Ala Tau; Thian. [Schan] oc.[cidentalis] et m.[eridionalis], Iss.[yk] K.[ul] oc.[cidentalis]' (Staudinger, 1901: 74).

Syntypes 4 ♂, 4 ♀:

- ♂ with labels: handwritten 'Ala Tau | Hbhr. [Haberhauer]' (on brown paper) and printed 'Origin.' (on pink paper);
- 3 ♂, 4 ♀ with circles of brown locality label paper and printed label 'Origin.' (on pink paper).

***standfussi* Grum-Grshimailo, [1891]**

'*Polyommatus Standfussi*' Grum-Grshimailo, [1891]: 450. Type locality: 'In montibus ad Sinin, in regione Amdo dicta, detectus'.

Syntypes ♂, ♀:

- ♂ with handwritten labels: 'Thibet | Sinin Alp.[es] | [18]90 [legit] Gr. Gr.' (on brown paper) and 'Pol.[yommatus] | Standfussi | G.G. | Sinin Mont.[es]' (A. Bang-Haas, on white faded paper);
- ♀ with circle of brown locality label paper.

The specimens, undoubtedly received by Staudinger from Grum-Grshimailo, are provided now with a printed label '*standfussi* | Grum-Grshimailo [1891] | SYNTYPUS | Y. Nekrutenko det. 26.11.1998' (on yellow paper).

***staudingeri* Christoph, 1873**

'*Lycaena Staudingeri* Chr.' Christoph, 1873: 26, Tab. 1, Fig. 5, 6. Type locality: 'Ich erhielt nur 2 ♂ und 2 ♀ bei Tasch...'

Syntype ♂:

- ♂ with labels: handwritten 'Tasch | Chr.[istoph]' (on yellow paper), small date label '31/5' (on paper faded brown) and printed 'Origin.' (on pink paper).

The specimen is placed under a handwritten drawer label 'Staudingeri | Chr.' (on white paper, in box).

suaveola Staudinger, 1881

'*Thecla Rubi* L. und v.? *Suaveola*' Staudinger, 1881: 279. Type locality: '...von Lepsa und Saisan... Vier ♂ (davon eins aus Saisan)...'

Lectotype ♂:

- ♂ (antennae broken off), with labels: handwritten 'Lepsa | Hbhr. [Haberhauer]' (on brown paper), printed 'Origin.' (on pink paper), handwritten in pencil 'Callophrys | rubi var. | suaveola | Stgr.' (on white paper), printed 'Zool. Mus. | Berlin' (on pale yellow paper), handwritten (Bernardi) on printed form 'C. *suaveola* Stgr. | lectotype ♂ | *Alexanor III* : 276 | Bernardi dét. | 1964' (on white paper) and combined printed/handwritten designation label 'LECTOTYPE' (on red paper) — Bernardi (1964: 276); figured in Hesselbarth *et al.* (1995: Taf. 127, Fig. 31, 37).

Paralectotypes 3 ♂:

- 2 ♂ with circles of brown locality label paper and printed 'Origin.' (on pink paper), one of them has a handwritten label in pencil 'suaveola | Stgr.' (on white paper);
- ♂ with labels: handwritten 'Saisan | Hbhr.' (on brown paper) and printed 'Origin.' (on pink paper).

sultan Staudinger, 1886

'*Polyommatus Sultan* Stgr. n. sp.' Staudinger, 1886: 202. Type locality: '...im Juli in den südlichen Gebirgen bei Samarkand gefangen, die Haberhauer mir als Hazret Sultan Gebirge angab.' — Junior primary homonym and junior objective synonym of *Polyommatus sultan* Lang, 1884: 368 (Nekrutenko, 1983: 11).

Syntypes 4 ♂, 2 ♀:

- ♂ with labels: handwritten (Staudinger) 'Sultan | Stgr.' (on white paper), 'Prov Samark.[and] | Hbh. [Haberhauer] [18]81' (on brown paper) and printed 'Origin.' (on pink paper);
- 3 ♂, 2 ♀ with circles of brown locality label paper and printed label 'Origin.' (on pink paper).

***superba* Staudinger, 1887**

'*Lycaena Superba* Stgr.' Staudinger, 1887a: 51. Type locality: '...erhielt ich jetzt 6 ♂ und 2 ♀ aus dem Transalai von Herrn Maurer... 2 ♂ von Haberhauer aus dem Alai erhalten hatte.'

Syntypes 5 ♂, 3 ♀:

- ♂ with labels: handwritten (Staudinger) 'Superba | Stgr.' (on white paper), handwritten 'Alai | [18]85 Hbh. [Haberhauer]' (on brown paper) and printed 'Origin.' (on pink paper);
- ♀ (abdomen missing), with labels: handwritten (Staudinger) 'Superba ♀ von | mir als <crossed> unter | Venus-♀ ♀ beschrieben' (on white paper), 'Alai | [18]85 Hbh. [Haberhauer]' (on brown paper) and printed, with handwritten (Staudinger) insertion 'Origin. | *Venus* ♀ | *false*' (on pink paper);
- ♂ with labels: handwritten 'Transalai | [18]86 Maur.[er]' (on brown paper) and printed 'Origin.' (on pink paper);
- 3 ♂, 2 ♀ with circles of brown locality label paper and printed label 'Origin.' (on pink paper), one male specimen also has a handwritten (Staudinger) label 'Superba Stgr.' (on white paper) — Häuser & Eckweiler (1997: 103).

***taherides* Eckweiler, 1998**

'*Polyommatus (Agrodiaetus) erschoffii taherides* subsp. nov.' Eckweiler, 1998: 225, Farbtafel 2. Type locality (holotypus): 'Iran, Khorasan, Kuh-e-Sorkh (Ost), S Kallehmenar, 45 km S Fariman, 2300–2400 m'.

Paratype ♂:

- ♂ with printed labels: 'Iran, Khorasan | 45 km S Fariman | Kallehmenar 2300–2400 m | 15.-17.VII.1998 | leg. Eckweiler 548' (on white paper, in box) and '**Paratypus** | *Polyommatus (Agrodiaetus) | erschoffii taherides* subsp. nov. | ECKWEILER 1998' (on bluish paper, in box).

***tancrei* Graeser, 1888**

'*Lycaena Tancrei* Graeser.' Graeser, 1888: 77. Type locality: 'Diese neue Art wurde von mir bei Nicol.[ajefsk], auf eine Bergwiese, am oberen Laufe der Kamera, in Mehrzahl gefangen.'

Syntypes ♂, ♀:

- ♂, ♀ with labels: printed ‘Nicolajefsk’ (on dirty white paper, in box), handwritten (Püngeler) ‘Tancrei ♂ | Original <underlined> | 11/09 ex coll. | Dieckmann’ (on white paper), handwritten (Püngeler) on printed form ‘Cotype <underlined> | *Tancrei Graes*[er] ♂ (♀) | *Püngeler*’ (on pink paper).

The specimens are placed under a handwritten (Püngeler) drawer label ‘Tancrei Graes.[er]’ (on white paper, in printed box).

***tartarus* Staudinger, 1896**

‘*Lycaena Orbitulus* Esp. var. *Tartarus* Stgr.’ Staudinger, 1896b: 300. Type locality: ‘wurden mir von Herrn R Tancreé eingesandt, dessen Sammler E. Rückbeil sie in den Jahren 1892 und 1893 im Innern Tibets, zwischen dem Lob Noor und Kuku Noor, fand.’ — Junior subjective synonym of *Lycaena orbona* Grun-Grshimailo, 1891: 452 (Staudinger, 1901: 81).

Syntypes 2♂, 2♀:

- ♂ with labels: handwritten (Staudinger) ‘Orbitulus var. | Tartarus | Stgr. (recto) | v. Orbona | GrGr. | Tartarus | Stgr. (verso)’ (on white paper), handwritten ‘Kuku Noor | [18]94 <sic! – *lapsus calami*? – see above under *Type locality*> Rckbl. [Rückbeil]’ (on brown paper) and printed ‘Origin.’ (on pink paper);
- ♂, 2♀ with circles of brown locality label paper, two female specimens also with rectangular pieces of pink paper.

***tekessana* Alphéraky, 1897**

‘*Lycaena Pheretiades* Ev. var. *Tekessana* Alph. nova’ Alphéraky, 1897: 234, pl. 12, fig. 3. Type locality: ‘C’est le 4 Juillet 1893 que l’expédition Roborowsky-Kozlow rencontra cette jolie *Lycaena* sur le fleuve Tékessé, dans le Thian-Chan. Nous avons devant nous 6 ♂♂ et une ♀ de cette race...’

‘Syntype’ ♂:

- ♂ with labels: handwritten (Staudinger) ‘var. Tekessana | Alph.[éraky]’ (on white paper, handwritten ‘Kuldja | Rckbl. [Rückbeil] [18]84’ (on brown paper) and printed ‘Origin.’ with handwritten (Staudinger) insertion (illegible) (on pink paper).

This specimen does not belong to the Alphéraky type series, and its designation by Staudinger as an ‘Original’ (apparently for internal use) is not available.

***thebana* Staudinger, 1895**

‘*Lyc.[aena] Thebana* B. (?)’ Staudinger, 1895: 244, Taf. 9, Fig. 3. Type locality: ‘Unter diesem Namen steckte ein ♂ aus Cairo in Lederer’s Sammlung, Boisduval scheint aber diese Art nicht beschrieben zu haben.’

Holotype ♂ (by monotypy):

- ♂ with labels: handwritten (Lederer) ‘Thebana B.[oisduval] | Cairo’ (on white paper, in printed box), handwritten (Staudinger) ‘Thebana | Stgr.’ (on white paper), handwritten ‘Cairo’ (on white paper), printed ‘Coll. Led.’ (on white paper) and ‘Origin.’ (on pink paper).

The specimen is provided with a printed label ‘*thebana* Staudinger, 1895 | HOLOTYPUS (par monotypiam) | Y. Nekrutenko det. 28.10.1998’ (on red paper).

***thetis* Klug, 1834**

‘*Lycaena Thetis*’ Klug, 1834: Decas Quarta: Signature *l(i)*, Tab. 40, Figs 17, 18. Type locality: ‘Habitat in Syria’.

Types: not found; *Catalogus Generalis*: 4557 — see Appendix.

***transcaspica* Staudinger, 1899**

‘[*Lycaena*] *Damone* Ev. var. *Transcaspica*’ Staudinger, 1899: 141. Type locality: ‘...aus Transcaspien (Achal Tekke), wo sie in den an Persien grenzenden Gebirgen (wohl bei Nochur)...’ — Junior primary homonym and junior objective synonym of *Lycaena kindermanni transcaspica* [Heyne], [1895].

Syntypes 5 ♂, 3 ♀ (Lectotype?):

- ♂ with labels: handwritten (unknown hand; Heyne?) ‘Kindermanni <sic> | v. Transcaspica | Transcauc <sic> | [18]94 U. S. (or U. 5.?)’ (on white faded paper), printed ‘Zool. Mus. | Berlin’ (on pale yellow paper), handwritten (Forster) on printed form ‘*Para-Typus* ♂ | *Lycaena transcaspica* | *Stgr.*’ (on pink paper), printed, with handwritten (Wagener, in pencil) insertions ‘Abgebildet in Hesselbarth, | van Oorschot & Wagener: |

Tagfalter der Türkei | Tafel 119 Figur 2' (on white paper) — not figured;

- ♂ with labels: handwritten (Staudinger) 'var. Transcaspica | Tekke Stgr. | N. ed.<?-illegible> (recto) | Kindermanni | v. Transcaspica | Stgr. i. 1.' (verso), a circle of yellow paper and printed 'Origin.' (on pink paper);
- 2♂, ♀ with circles of yellow paper (which might be interpreted as 'Tekke [18]94 | Wild') and printed label 'Origin.' (on pink paper) — cf. Eckweiler & Häuser (1997: 121, Pl. 5);
- ♀ with labels: handwritten (unknown hand; Heyne?) 'Kindermanni <sic> | v. Transcaspica | Transcauc <sic> | [18]94 U. S. (or U. 5.?)' (on white faded paper), printed 'Sammlung | Daumiller' (on white paper), handwritten (Forster) on printed form 'Para-Typus ♀ | *Lycaena transcaspica* | Stgr.' (on pink paper);
- [Lectotype] ♂ with labels: handwritten 'Tekke | 94 Wild.', printed 'Origin.' (on pink paper), printed '295.' (on white paper faded yellow), printed 'Zool. Mus. | Berlin' (on pale yellow paper), handwritten 'transcaspica' (on white paper), handwritten (Forster) 'Typus | *Lycaena* | transcaspica Stgr.' (on pink paper), printed, with handwritten (Wagener, in pencil) insertions 'Abgebildet in Hesselbarth, | van Oorschot & Wagener: | Tagfalter der Türkei | Tafel 121 Figur 63' (on white paper) — Hesselbarth *et al.* (1995: Taf. 121, Fig. 63).
- [Paralectotype] ♀ with circle of yellow locality label paper, printed 'Origin.' (on pink paper), printed '296.' (on white paper faded yellow), printed 'Zool. Mus. | Berlin' (on pale yellow paper), handwritten (Forster) 'Typus ♀ | *Lycaena* | transcaspica | Stgr.' (on pink paper), handwritten (Wagener) 'Tekke [18]94 | Wild', printed, with handwritten (Wagener, in pencil) insertions 'Abgebildet in Hesselbarth, | van Oorschot & Wagener: | Tagfalter der Türkei | Tafel 121 Figur 64' (on white paper) — Hesselbarth *et al.* (1995: Taf. 121, Fig. 64).

The designation of the two last-mentioned specimens as 'Types' and its subsequent publication ('1♂ ♀ Transcaspien, Tekke 1894 (Typen in Slg. Staudinger)' — Forster, 1956: 80) may be

considered as an available lectotype designation; only these two specimens are declared to be the syntypes of '*Lycaena damone* Ev. var. *transcaspica*' Staudinger, 1899 (Hesselbarth *et al.*, 1995: 735, footnote 3; see also Häuser & Eckweiler, 1997: 105).

***transcaspica* Staudinger, 1901**

'*Cigaritis* B. *Acamas* Klug. v. *Transcaspica* Stgr.' Staudinger, 1901: 76. Type locality: 'Tura oc.[cidentalis] m.[eridionalis] mont; (Nuchur)'.

Syntypes 2♂:

- ♂ with labels: handwritten 'Tekke | [18]94 Wild.[?]' (on yellow paper), and printed 'Origin.' (on pink paper);
- ♂ with circles of yellow locality label paper and printed labels 'Origin.' (on pink paper).

The specimens are placed under a handwritten (Staudinger) drawer label 'v. *Transcaspica* | Stgr.' (on white paper).

***transcaucasica* Rebel, 1901**

'*Lycaena Argyrognomon* Brgst. var. *Transcaucasica* n. var. ♂ ♀' Rebel, 1901: 166. Type locality: '...gehören doch die aus Südarmenien von Eriwan und Kulp von Herrn Korb 1898 und 1901 mitgebrachten *Argyrognomon*-Stücke...'

Syntypes ♂, ♀:

- ♂, ♀ with labels: handwritten 'Armenia (recto) | Lyc.[aena] argus var ♂ (♀) | v.[om] Mkorb 11/[19]01 (verso)' (on white paper, recto in printed box), printed, with handwritten insertion 'Russ.[isch] Armen.[ien] | Kulp | 1901 Korb' (on white paper), handwritten (Püngeler) on printed form 'Cotype <underlined> | v. *transcaucasica* | Rbl. ♂ (♀) | Püngeler' (on pink paper).

The specimens are placed under a handwritten (Püngeler) drawer label 'Argyrognomon Bgstr. | v. *Transcaucasica* Rbl.' (on white paper, in printed box).

***transiens* Staudinger, 1886**

'*Pol.[yommatus] Caspius* Led. var. *Transiens* Stgr.' Staudinger, 1886: 201. Type locality: 'Von Haberhauer erhielt ich 1881 eine größere Anzahl im Juli bei Samarkand (in den südlich davon gelegenen Gebirgen)...'

Syntypes 6♂, 4♀:

- ♂ with labels: handwritten (Staudinger) 'Caspus var. | Transiens | Stgr.' (on white paper), 'Prov. Samark.[and] | Hbh. [Haberhauer] [18]81' (on brown paper) and printed 'Origin.' (on pink paper);
- 5♂, 4♀ with circles of brown locality label paper and printed 'Origin.' (on pink paper).

triphysina Staudinger, 1892

'*Lycaena Triphysina* Stgr. n. sp.' Staudinger, 1892a: 235, Taf. 3, Fig. 2. Type locality: '...erhielt ich durch Herrn Tancre; sie wurde von Rückbeil im Kaschgar-Gebiet gefangen'.

Syntypes 4♂, 2♀:

- ♂ with labels: handwritten (Staudinger) 'Triphysina | Stgr.' (on white paper), 'Kaschgar | [18]90 Rckbl [Rückbeil]' (on brown paper) and printed 'Origin.' (on pink paper);
- 2♂, 3♀ with circles of brown locality label paper and printed labels 'Origin.' (on pink paper).

uliginosa Dannehl, 1921

'*L.[ycaena] argus* Schiff. var. *uliginosa*' Dannehl, 1921: 39. Type locality: 'Eine der interessantesten Erscheinungen der Beuerberger Fauna.'

Syntypes 3♂, 5♀:

- 3♂, 5♀ with labels: printed 'O. Bayern | Beuerberg | c.[oll.] Dannehl [19]20', small handwritten date labels (on white paper, in pencil) handwritten (Püngeler) on printed form 'Cotype <u></u> | v. *uliginosa* Dannehl ♂ (♀) | von Dr. Frhr v. Rosen | Püngeler' (on pink paper).

The specimens are placed under a handwritten (Püngeler) drawer label 'Argyrognomon Bgstr. | v. Uliginosa Dannehl' (on white paper, in printed box).

unicolor Kardakoff, 1928

'*Zephyrus taxila* Brem. f. ♀ *unicolor* (nom. coll.)' Kardakoff, 1928: 271, Taf. 7, Fig. 13. Type locality: '...aus dem Ussurigebiet...' — Infrasubspecific.

Syntype ♀:

- ♀ (right hindwing and abdomen missing), with labels: printed, with handwritten (Kardakoff?) insertion 'Sidemi Ussurigebiet | 6.8. 1921. N. Kardakoff' (on white paper), handwritten (Kardakoff?) 'Zephyrus taxila Brem L. | f. ♀ unicolor Kardakoff' (on white paper) and printed 'Typus' (on red paper, in box).

The specimen is placed under a typewritten drawer label 'f. ♀ unicolor' <underlined with red pencil> (on a stripe of white paper, in blue type ribbon).

vandalusica Staudinger, 1871

'*Thecla Spini* Schiff. S. V. ab. ♀ *Lynceus* Hb. 674-5 (*Lynceus* Esp. n. syn.); *Vandalusica* Ld. z. b. 1852, p. 19'. — Unjustified emendation of *vandalusica* Lederer, 1852 (see below); the name has been already emended by Lederer himself (1857: 32): '*Lycaena* Fab. *spini* S. V. V.[arietas] *vandalusica* m. (*Lynceus* Hb.)'.

Types: not found.

vandalusica Lederer, 1852

'*Thecla Lynceus* Hb. v. *Vandalusica*' Lederer, 1852: 19. — A replacement name for junior secondary homonym *Thecla spini lynceus* (Hübner, [1813]), non *Thecla lynceus* (Esper [1777]), junior subjective synonym of *Papilio spini* [Denis & Schiffermüller], 1775 (cf. Lederer, 1857: 32; Staudinger, 1871a: 7 as *vandalusica*) — see *vandalusica* above.

venus Staudinger, 1886

'*Lyc.[aena] Venus* Stgr.' Staudinger, 1886: 211. Type locality: 'Diese prächtige neue Art erhielt ich erst vor Kurzem aus dem südlichen Alai in 10 ♂ und 6 ♀ eingesandt.'

Lectotype ♂:

- ♂ with labels: circle of brown paper, printed 'Origin.' (on pink paper), handwritten (Lukhtanov) on printed form 'Lectotypus ♂ | *venus* Stgr. design. V. Lukhtanov' (on white paper, recto red, verso white) — Lukhtanov & Lukhtanov (1994: 272).

Paralectotypes 5 ♂, 4 ♀:

- ♂ with labels: handwritten (Staudinger) 'Venus | Stgr.' (on white paper), and 'Alai | [18]85 Hbhr. [Haberhauer]' (on brown paper), printed 'Origin.' (on pink paper);

- 4♂, 4♀ with circles of brown locality label paper and printed label 'Origin.' (on pink paper); one ♂ destroyed, head, thorax and abdomen removed, forewings pinned to the specimen in a piece of notebook paper; labelled with a new handwritten label 'Alai | 85 Htsch' <sic> and printed label 'Zool. Mus. | Berlin' (on pale yellow paper).

***violaceus* Staudinger, 1892**

'*Pol.[yommatus] Dispar* Haw. Var. *Violaceus* Stgr.' (und var. *Dahurica* Graes.?)
Staudinger, 1892d: 315. Type locality: '...Ende Juli, auf einer hoch-gelegenen
Waldwiese des Kentei gefangen.'

Syntypes 3♂, ♀:

- ♀ with labels: handwritten (Staudinger) 'var. | *Violaceus* | Stgr.' (on white paper), 'Kentei | [18]89 Dörr.[ies]' (on green paper) and printed 'Origin.' (on pink paper);
- 3♂ with circles of green locality label paper and printed 'Origin.' (on pink paper).

***virgaureola* Staudinger, 1892**

'*Polyommatus Virgaureae* L. var. *Virgaureola* Stgr.' Staudinger, 1892d: 314. Type
locality: '...auf höher gelegenen Wiesen im Kentei'.

Syntypes 5♂, 7♀:

- ♂ with labels: handwritten (Staudinger) 'var. | *Virgaureola* | Stgr.' (on white paper), 'Kentei | [18]89 Dörr.[ies]' (on pale green paper) and printed 'Origin.' (on pink paper);
- 3♂, 6♀ with circles of pale green locality label paper and printed 'Origin.' (on pink paper); one male specimen also has a handwritten (Staudinger) label 'var. | *Virgaureola*' with an addition in pencil 'Kentei' (on white paper);
- ♂, ♀ with labels: handwritten (Püngeler) 'Transbaical | (Kentei) | Stgr. (recto) | *Polyo.[mmatus] virgaureae* | v. *virgaureola* Stgr. | ♂ (♀) | ex coll. Heydenr.[eich] | 9.[18]98 (verso)' (on white paper, recto in printed box) and handwritten (Püngeler) on printed form 'Cotype <underlined> | v. *virgaureola* Stgr. ♂ (♀) | *Püngeler*' (on pink paper).

The specimens are placed under a handwritten (Püngeler) drawer label 'Virgaureae L. | v. Virgaureola Stgr.' (on white paper, in printed box).

xerxes Staudinger, 1899

'[*Lycaena*] *Damone* Ev. var. *Xerxes*' Staudinger, 1899: 143. Type locality: '...wurde von Christoph bei Schahrud in Nord-Persien im Mai 1873 gefangen; er sandte mir 4 ♂♂ und 3 ♀♀ davon.'

Lectotype ♂:

- ♂ with a circle of yellow locality label paper, printed '325' (on white paper faded yellow), printed 'Origin.' (on pink paper), handwritten (Forster) on printed form '*Lecto-Typus* ♂ | *Polyommatus xerxes* | Stgr. | W. Forster München' (on pink paper, in box) — Forster (1956: 122); Häuser & Eckweiler (1997: 108).

Paralectotypes 3 ♂, 3 ♀:

- ♂ with labels: handwritten (Staudinger) 'Kindermanni | v. Xerxes | Stgr.' (on white paper), handwritten 'Schahrud | Chr.[istoph]' (on yellow paper), handwritten small (Christoph) date label '10/5' (recto white, verso green), printed 'Origin.' (on pink paper), handwritten (Forster) '*Cotypus* | *Lycaena damone* | xerxes Stgr.' (on pink paper);
- 2 ♂, 3 ♀ with circles of yellow locality label paper and printed 'Origin.' (on pink paper), one male and one female have also a handwritten (Forster) label '*Cotypus* | *Lycaena damone* | xerxes Stgr.' (on pink paper); some of these also have Christoph's small date labels '20/5', '22/5', '26/5' (recto white, verso green).

The specimens are placed under a handwritten (Staudinger) drawer label 'v. Xerxes.' (on white paper).

zeituna Forster, 1960

'*Agrodiaetus phyllis zeituna* (Stgr. i. l.) ssp. nov.' Forster, 1960: 129, Taf. 10, Fig. 23, Taf. 11, Fig. 23. Type locality: 'Zeitun' (Turkey, Maraş, Süleymanlı).

Holotype ♂:

- ♂ with labels: handwritten (Staudinger) 'Iphigenia v. | Zeituna i. l.' (on white paper), handwritten 'Zeitun | [18]98 Har.<?>' (on white paper faded yellow), printed '306.' (on white paper faded yellow), printed 'Origin.' (on pink paper), printed 'Zool. Mus. | Berlin' (on pale yellow paper), handwritten (Forster) on printed form 'Holo-Typus <overwritten to correct 'Type'> ♂ | *Polyommatus (Agrodiaetus) | phyllis zeituna Forster* | W. Forster München' (on pink paper), printed, with handwritten (Wagener, in pencil) insertions 'Abgebildet in Hesselbarth, | van Oorschot & Wagener: | Tagfalter der Türkei | Tafel 121 Figur 27' (on white paper) — Forster (1960: Taf. 10, Fig. 23, Taf. 11, Fig. 23); Hesselbarth *et al.* (1995: Taf. 121, Fig. 27); Häuser & Eckweiler (1997: 108).

Paratype ♂:

- ♂ with labels: a circle of yellow paper, printed '307.' (on white paper faded yellow), printed 'Zool. Mus. | Berlin' (on pale yellow paper), handwritten (Forster) on printed form 'Para-Typus ♂ | *Agrodiaetus phyllis | zeituna Forster* | W. Forster München' (on pink paper).

zephyrinus Christoph, 1884

'*Lycaena Zephyrinus* Stgr.' Christoph, 1884: 102, pl. 4, fig. 3a, b. Type locality: 'Im Mai bei Askhabad... später bei Nuchur gesammelten aus.'

Syntypes ♂, ♀

- ♂ with handwritten (Staudinger): labels: 'als Zephyrinus | von Christoph' (on white paper), 'Nochur Teke | Christ.[oph]' (on yellow paper), and small label '75/6';
- ♀ with handwritten (Christoph) square label 'No- | chur | 29582 [29 May 1882] (recto) | Chr.[istoph] (verso)' (on white paper, recto in violet box).

Other syntypes with Christoph's identical handwritten labels are deposited in the Zoological Institute, Russian Academy of Sciences, St.-Petersburg.

The specimens are provided with a printed label ‘*zephyrinus* Christoph, 1884 | SYNTYPUS | Y. Nekrutenko det., 29.10.1998’.

zephyrinus Staudinger, 1886

‘*Lyc.[aena] Zephyrus* HS. var. *Zephyrinus* Stgr.’ Staudinger, 1886: 204. Type locality: ‘...erhielt ich besonders aus der Umgegend von Samarkand und Namangan, wo sie Ende Mai flog, aber auch von Usgent und Osch, wo sie Mitte Juli gefangen wurde.’ — Junior primary homonym of *Lycaena zephyrinus* Christoph, 1884 (Staudinger, 1901: 79); replacement name: *Plebeius pylaon usbeka* Forster, 1939: 6.

Syntypes 7♂, 9♀:

- ♂ (abdomen removed), with printed labels ‘Origin.’ (on pink paper) and ‘Zool. Mus. | Berlin’ (on yellow paper), handwritten (Bálint) on printed form ‘*Plebejides* | *usbekus* FORST. | gen. prep. No. | Zs. Bálint 37’, handwritten (Bálint) on printed form ‘Lectotypus | *Lycena zephyrinus* | STGR. | *Plebeius* | *usbeka* FORSt. <sic>’(print in red ink, in box), ‘Lectotypus | *Plebejides* | *usbekus* FORST. (recto) | det. BÁLINT, | 1986.XII (verso)’ (on white paper, print in red ink, in box);
- ♂ (right forewing missing), with labels: handwritten (Staudinger) ‘*Zephyrus* var. | *Zephyrinus* | Stgr.’ (on white paper), handwritten ‘Prov. Samarkand | Hbhr. [Haberhauer] [18]81’ (on brown paper), printed ‘Origin.’ (on pink paper);
- 3♂, 4♀ with circles of brown locality label paper and printed labels ‘Origin.’ (on pink paper); one male specimen also has a handwritten (Staudinger) label ‘*Zephyrus* var. | *Zephyrinus* Stgr.’ (on white paper);
- ♀ with circle of brown locality label paper, printed labels ‘Origin.’ (on pink paper) and ‘Zool. Mus. | Berlin’ (on yellow paper), handwritten (Bálint) labels on printed form ‘Paralectotypus | *Lycena zephyrinus* | STGR. = *Plebeius* | *usbeka* FORST.’ (on white paper, print in red ink, in box), ‘Paralectotypus | *Plebejides* | *usbekus* FORST. (recto) | det. BÁLINT, | 1986.XII (verso)’ (on white paper, print in red ink, in box);
- ♀ with labels: handwritten ‘Osch | Hbhr. [Haberhauer] [18]82’ (on brown paper), handwritten small date label ‘13/6’ (on white paper) and printed ‘Origin.’ (on pink paper);

- ♂ with labels: handwritten 'Namangan | Hbhr. [Haberhauer] [18]84' (on brown paper) and printed 'Origin.' (on pink paper);
- ♂, 2 ♀ with circles of brown locality label paper and printed 'Origin.' (on pink paper); the male specimen also has a handwritten small date label '28/5', female specimens '27/5' and '28/5' (on white paper);
- ♀ with labels: handwritten 'Usgent | Hbhr. [Haberhauer] [18]83' (on brown paper) and printed 'Origin.' (on pink paper).

No information related to these specimens in connection with the lectotype designation has been published yet by Bálint ('I have examined closely the syntypes of *zephyrinus* (Staudinger)...' — Bálint & Kertész, 1990: 203–204).

Acknowledgements. I am much indebted to Dr. Wolfram Mey who made my visit to the Museum für Naturkunde der Humboldt Universität zu Berlin possible and who provided a most favourable atmosphere that allowed me to focus entirely on the project implementation. I kiss the hand of Miss Viola Richter for her everyday attendance, assistance, generous help and friendly encouragement during my stay in Berlin. During the preparation of this text, I kept in permanent e-mail touch with Mr. Alain Olivier (Antwerp) who kindly helped to solve certain important problems with literary sources and advice. Mr. Alain Olivier and Mr. & Mrs. Jos and Jeannine Dils (Stabroek-Hoevenen, Belgium) visited me during my stay in Berlin to participate, encourage and assist my efforts. Dr. Mary E. Petersen, Zoological Museum, University of Copenhagen (Denmark), kindly read through the introductory section. The real joy of any work is much increased when one has somebody to share the impressions and to feel unlimited understanding and perpetual counter-interest; in this respect, in addition to the forementioned persons, I am greatly indebted to Mr. Manfred Gertsberger, Mr. Matthias Nuß, Dr. Wolfgang Speidel and Mr. Vadim V. Tshikolovets for fascinating and unforgettable discussions that removed all doubts, ambiguities and uncertainties that appeared during this study and who shared the delight of discoveries.

References

- ALBERTI, B., 1969. Neue oder bemerkenswerte Lepidopteren-Formen aus dem Großen Kaukasus. — *Dt.ent.Z.*, N. F. 16(1–3): 189–203, 3 Taf., Karte.
- ALBERTI, B., 1973. Ergänzende Bemerkungen zu Higgins & Riley: 'A field guide to the butterflies of Britain and Europe', nebst Beschreibung der *Lycaena pyrenaica latedisjuncta* n. subsp. — *Ent.Z.* 83(19): 217–223.
- ALPHÉRAKY, S., 1881. Lépidoptères du district de Kouldjà et des montagnes environnantes. 1^{ère} Partie. — *Horae Soc.ent.Ross.* 16: 334–435, pl. 14, 15 (1 November 1881).
- ALPHÉRAKY, S., 1897. Sur quelques Lépidoptères rapportés de l'Asie, en 1893–1895, par l'expédition de M-rs Roborowsky et Kozlow. In: Romanoff, N. M. (ed.) Mémoires sur les Lépidoptères. — St. Pétersbourg, Impr. Soikine. — 9: 229–237 pl. 12.
- ANTONOVA, E. M., 1981. Type specimens of the Lepidoptera deposited in the collections of the Zoological Museum of Moscow State University. — *Sb.Tr.zool.Muz.MGU* 19: 208–227 (In Russian).
- AUSTAUT, L., 1885. Lépidoptères nouveaux d'Algérie. — *Naturaliste* (Paris) 7: 141–142.
- BAKER, D. B., 1997. C. G. Ehrenberg and W. F. Hemprich's Travels, 1820–1825, and the Insecta of the *Symbolae Physicae*. — *Dt.ent.Z.* 44(2): 165–202.
- BÁLINT, Zs., 1992. Faunistic data of Lycaenid butterflies from the Himalayan region I (Lepidoptera, Lycaenidae). — *Linn.belg.* 13(8): 395–422.
- BÁLINT, Zs., 1999. Annotated list of type specimens of *Polyommatus* sensu Eliot of the Natural History Museum, London (Lepidoptera, Lycaenidae). — *Neue ent.Nachr.* (Marktleuthen) 46: 1–89, 4 col. pls.
- BÁLINT, Zs. & JOHNSON, K., 1997. Reformation of the *Polyommatus* Section with a Taxonomic and Biogeographic Overview (Lepidoptera, Lycaenidae, Polyommagini). — *Neue ent.Nachr.* (Marktleuthen) 40: 1–68, 4 col. pls.
- BÁLINT, Zs. & KERTÉSZ, A., 1990. A survey of the subgenus *Plebejides* (Sauter, 1968) <sic> – preliminary revision. — *Linn.belg.* 12(5): 190–224.
- BANG-HAAS, A., 1906. Neue oder wenig bekannte palaearktische Macrolepidopteren. — *Dt.ent.Z. Iris* 19: 127–144 (15 November 1906).
- BANG-HAAS, A., 1907. Neue oder wenig bekannte palaearktische Macrolepidopteren. — *Dt.ent.Z. Iris* 20: 69–88 (1 August 1907).
- BANG-HAAS, A., 1910. Neue oder wenig bekannte palaearktische Macrolepidopteren. — *Dt.ent.Z. Iris* 24: 27–51 (1 March 1910).
- BANG-HAAS, A., 1912. Neue oder wenig bekannte palaearktische Makrolepidopteren. IV. — *Dt.ent.Z. Iris* 26: 103–110 (30 June 1912).
- BANG-HAAS, O., 1915. Rhopalocera der Chotan-Ausbeute 1914. I. — *Dt.ent.Z. Iris* 29: 92–100 (1 October 1915).
- BANG-HAAS, O., 1927. Horae Macrolepidopterologicae regionis palaearticae. Vol. I. Neubeschreibungen und Berichtigungen der Palaearktischen Lepidopterenfauna. — Dresden-Blasewitz, Vlg. O. Staudinger & A. Bang-Haas. — XXVIII+128 S., 11 Taf.

- BARTEL, M., 1904. Ueber die Variabilität von *Lycaena coridon* Poda und Beschreibung <sic> einer neuen Lokalform dieser Art (Schluss). — *Ent.Z.* 18(30): 117–118 (15 Dezember 1904).
- BERNARDI, G., 1964. Lépidoptères Lycaenidae (sauf *Agrodiaetus*) récoltés en Iran par H. de Lesse en 1955 et 1958. — *Alexanor* 3(5): 209–216; 3(6): 273–278.
- BIENERT, TH., [1869]. Lepidopterologische Ergebnisse einer Reise in Persien in den Jahren 1858 und 1859. — Leipzig, C. W. Vollrath. — 56 p. (not dated; for publication date see Derksen & Scheiding-Göllner, 1963: 273).
- BOISDUVAL, [J. B. A. DE CHAUFFOUR], 1832. Icones Historique des Lépidoptères nouveaux ou peu connus. Collection avec figures coloriées, des papillons d'Europe nouvellement découverts; ouvrage formant le complément de tous les auteurs iconographes. — Paris, Libr. Encyclopédique de Roret. — 251 p., 47 pl.
- BRANDT, W., 1938. Beitrag zur Lepidopteren-Fauna von Iran. Neue Gattungen, Arten und Formen (Macrolepidoptera.) (Fortsetzung). — *Ent.Rdsch.* 55: 671–675. Taf. 4.
- CARADJA, A. VON, 1895. Die Grossschmetterlinge des Königreiches Rumänien. — *Dt.ent.Z. Iris* 8: 1–102 (15 July 1895).
- CARBONELL, F., 2000. Contribution à la connaissance du genre *Agrodiaetus* Hübner (1822), *A. barmifiruze* n. sp. et *A. musa esfahensis* n. ssp. en Iran méridional (Lepidoptera: Lycaenidae). — *Linn.belg.* 17(5): 211–217, 1 pl.coul., 1 fig., 2 cartes.
- CHRISTOPH, H., 1873. Weiterer Beitrag zum Verzeichnisse der in Nord-Persien einheimischen Schmetterlinge. — *Horae Soc.ent.Ross.* 10: 3–55, Tab. 1.
- CHRISTOPH, H., 1877. Sammelerggebnisse aus Nordpersien, Krasnowodsk in Turkmenien und dem Daghestan. — *Horae Soc.ent.Ross.* 12: 181–299, Tab. 5–8 (18 January 1877).
- CHRISTOPH, H., 1882. Einige neue Lepidoptera aus Russisch-Armenien. — *Horae Soc.ent.Ross.* 17: 104–126 (1 December 1882).
- CHRISTOPH, H., 1893. Lepidoptera nova faunae palaearticae — *Dt.ent.Z. Iris* 6: 86–96 (8 July 1893).
- D'ABRERA, B., 1993. Butterflies of the Holarctic region. Part III. Nymphalidae (concl.), Libytheidae, Riodinidae & Lycaenidae. — Hill House; Victoria, Australia. — i–vii, 335–524 p.
- DADD, E. M., 1909a. Forms of *Erebia* and *Lycaena* from Germany — *Trans.ent.Soc.Lond.* 3 (*Proc.ent.Soc.Lond.* 1908): (lxii)–(lxiv) (20 January 1909).
- DADD, [E. M.], 1909b. Sitzungsberichte für 1908. Sitzung vom 29. Oktober. — *Berl.ent.Z.* 54: (36)–(37) (Anfang August 1909).
- DANNEHL, F., 1921. Die Macrolepidopteren der Umgebung von Beuerberg und des unteren Loisachtales. Sammelerggebnisse aus den Jahren 1919 und 1920. — *Mitt.münch.ent.Ges.* 11: 32–44 (31 Mai 1921).
- DERKSEN, W. & SCHEIDING-GÖLLNER, U., 1963–1975. Index Litteraturae Entomologicae. Serie II. Die Welt-Literatur über die gesamte Entomologie von 1864 bis 1900. 5 Bde. — Berlin, Akademie der Landwirtschaftswissen-

- schaften der Deutschen Demokratischen Republik. — Bd. 1. (A–E): 12+697 p. (1963); Bd. 2. (F–L): 678 p. (1965); Bd. 3. (M–R): 528 p. (1968); Bd. 4. (S–Z): 482 p. (no title page, no date [1972]); Bd. 5. Index (by R. Gaedike): 238 p. (1975).
- ECKWEILER, W., 1978. Zwei Lycaeniden-Neufunde aus Nordostanatolien. — *Nota lepid.* 1: 115–118.
- ECKWEILER, W., 1997. Neue Taxa von *Polyommatus (Agrodiaetus)* (Lepidoptera: Lycaenidae). — *Nachr.ent.Ver.Apollo* Suppl. 16: 7–22.
- ECKWEILER, W., 1998. Neue Taxa der Gattungen *Polyommatus* Latreille, 1804 und *Plebeius* Kluk, 1780 aus dem Iran (Lepidoptera: Lycaenidae). — *Nachr.ent.Ver.Apollo*, N.F. 19(3/4): 219–238 (December 1998).
- ECKWEILER, W. & HÄUSER, C. L., 1997. An illustrated checklist of *Agrodiaetus* Hübner, 1822, a subgenus of *Polyommatus* Latreille, 1804 (Lepidoptera: Lycaenidae). — *Nachr.ent.Ver.Apollo* Suppl. 16: 113–166, 11 pls.
- ECKWEILER W. & HESSELBARTH, G., 1978. Eine neue Unterart von *Agriades pyrenaicus* Boisduval aus Ostanatolien (Lepidoptera, Lycaenidae). — *NachrBl.bayer.Ent.* 27(4): 65–68 (15 August 1978).
- ECKWEILER, W. & ROSE, K., 1993 (1992). Zwei neue Lycaeniden aus der Südwesttürkei (Lepidoptera, Lycaenidae). — *Nachr.ent.Ver.Apollo*, N.F. 13(3a): 355–364 (Mai 1993).
- ECKWEILER, W. & TEN HAGEN, W., 1998. Zur Taxonomie von *Polyommatus (Agrodiaetus) phyllis* (Christoph, 1877), *P. posthumus* (Christoph, 1877) und *P. darius* spec. nov. (Lepidoptera: Lycaenidae). — *Nachr.ent.Ver. Apollo*, N.F. 19: 109–118.
- EITSCHBERGER, U. & STEINIGER, H., 1975. Die geographische Variation von *Eumedonia eumedon* (Esper, 1780) in der westlichen Palaearktis (Lep. Lycaenidae). — *Atalanta* (Würzburg) 6: 84–125.
- FORSTER, W., 1939. Lepidopteren aus Iran. In: Danish scientific investigations in Iran. — Copenhagen, Munksgaard — 1: 1–6.
- FORSTER, W., 1940. Neue Lycaeniden-Formen aus China. I. — *Mitt.münch.ent.Ges.* 30: 870–883, Taf. 22–24 (15 September 1940).
- FORSTER, W., 1941 (1940). Beiträge zur Kenntnis zentralasiatischer Lycaeniden. — *Dt.ent.Z. Iris* 54: 70–84, Taf. 2, 3 (20 May 1941).
- FORSTER, W., 1942. Neue Lycaeniden-Formen aus China. III. — *Mitt.münch.ent.Ges.* 32: 570–580, Taf. 16 (1 September 1942).
- FORSTER, W., 1956. Bausteine zur Kenntnis der Gattung *Agrodiaetus* Scudd. (Lep. Lycaen.) I. — *Z.wien.ent.Ges.* 41: 42–61, 70–89, 118–127, Taf. 8–13.
- FORSTER, W., 1960. Bausteine zur Kenntnis der Gattung *Agrodiaetus* Scudd. (Lep. Lycaen.) II. — *Z.wien.ent.Ges.* 45: 105–142, Taf. 10–15.
- FORSTER, W., 1961. Bausteine zur Kenntnis der Gattung *Agrodiaetus* Scudd. (Lep. Lycaen.) II. Fortsetzung und Schluß. — *Z.wien.ent.Ges.* 46: 8–13, 38–47, 74–79, 88–94, 110–116.
- FREYER, C. F., [1831]–1858. Neuere Beiträge zur Schmetterlingskunde mit Abbildungen nach der Natur. — C.[hristian] F.[riedrich] Freyer, Carl Kollmann (Bde. 1–3), Rieger (Bde. 4–7), Augsburg; 7 Bde. in 120 Hefte, 700

- kol. Taf.: 1(1–16): 182 S., 96 Taf., ([1831]–1833); 2(17–32): 162 S., 96 Taf., ([1833]–1836); 3(33–48): 134 S., 96 Taf., ([1836]–1839); 4(49–64): 167 S., 96 Taf., ([1839]–1842); 5(65–80): 166 S., 96 Taf., (1842–1845); 6(81–100): 195 S., 120 Taf., (1846–1852); 7(101–120): 178 S., 100 Taf., (1853–1858). — For correct publication dates of certain parts of this work see Olivier (2000b).
- GERHARD, B., [1850]–1853. Versuch einer Monographie der europäischen Schmetterlingsarten: *Thecla*, *Polyommatus* [sic], *Lycaena*, *Nemeobius*. Als Beitrag zur Schmetterlingskunde. — Hamburg, beim Herausgeber, Leipzig, W. Gerhard. — 3+21 p., 39 pls. — For the publication dates of certain parts of this work see Koçak (1980c:17), Olivier (1999).
- GRAESER, L., 1888. Beiträge zur Kenntnis der Lepidopteren-Fauna des Amurlandes. — *Berl.ent.Z.* 32: 33–153.
- GROUM-GRSHIMAÏLO, GR., 1890. Le Pamir et sa faune lépidoptérologique. In: Romanoff, N. M. (ed.) Mémoires sur les Lépidoptères. — St. Pétersbourg, Impr. Stassuléwitch. — 4: I–XVII, 1–575+2, 21 pl., map.
- GRUM-GRSHIMAÏLO, GR., 1888. Novae species et varietates Rhopalocerorum e Pamir. — *Horae Soc.ent.ross.* 22: 301–307.
- GRUM-GRSHIMAÏLO, GR., [1891]. Lepidoptera nova in Asia Centrali novissime lecta. — *Horae Soc.ent.ross.* 24: 445–465 (as stated in the ‘Répartition des livraisons’ of the volume, ‘3 et 4 livraisons, Matériaux scientifiques, pages 383–465’, were published ‘20 Octobre 1890’; however, the last page of Grum-Grshimaïlo’s article is dated ‘1891. Mense Junio. Petropoli’ — the article could hardly be published before this date. The title page of the entire volume XXV for 1889–1890 of the *Trudy/Horae* is also dated 1891; for more details see Kerzhner, 1984).
- GRUM-GRSHIMAÏLO, A. G., 1947. The deed and days of G. E. Grumm-Grshimailo (a voyager and a geographer). — Moscow, Moscow Naturalists’ Society. — 95 p., map (In Russian).
- HANNEMANN, E., 1928. Etwas über *Chrysophanus amphidamas* Esp. — *Intern.ent.Z.* (Guben) 22: 209–210 (8 September 1928).
- HÄUSER, C. L. & ECKWEILER, W., 1997. A catalogue of the species-group taxa in *Agrodiaetus* Hübner, 1822, a subgenus of *Polyommatus* Latreille, 1804 (Lepidoptera: Lycaenidae). — *Nachr.ent.Ver.Apollo* Suppl. 16: 53–112.
- HEMMING, A. F., 1931. On the dates of publication of F. Ruhl’s ‘Die palaeartischen Grossschmetterlinge und ihre Naturgeschichte.’ — *Ann.Mag.nat.Hist.* Ser. 10, 8: 405–406.
- HEMMING, A. F., 1932. Supplementary notes on the collection of butterflies made in Greece by general van Straubenzee in 1931. — *Entomologist* 65: 179–183.
- HEMMING, A. F., 1933. Holarctic butterflies: Miscellaneous notes on nomenclature. — *Entomologist* 66: 275–279.
- HEMMING, A. F., 1934. Some notes on the nomenclature of Palearctic and African Rhopalocera. — *Stylops* 3: 97–99.
- HEMMING, F., 1937. Hübner. A bibliographical and systematic account of entomological works of Jacob Hübner and the supplement thereto by Carl Geyer,

- Gottfried Franz Frölich and Gottlieb August Wilhelm Herrich-Schäffer.— London, R.ent.Soc.Lond.—Vol. 1. 34+605 p.; Vol. 2. 21+274 p.
- HEPPNER, J. B., 1982. Dates of selected Lepidoptera literature for the Western Hemisphere fauna. — *J.Lepid.Soc.* 36(2): 87–111.
- HERRICH-SCHÄFFER, G. A. W., 1843–1856. Systematische Bearbeitung der Schmetterlinge von Europa, zugleich als Text, Revision und Supplement zu Jakob Hübner's Sammlung europäischer Schmetterlinge. — G. J. Manz, Regensburg, 6 Bde. in 69 Hefte, 636 kol. Taf., 36 nicht kol. Taf.: **1** (Hefte 1–7, 9–14, 26, 32, 36–37, 43, 45, 47, 49, 51, 54, 56, 59, 65–66): Sign. 1–22, a–f, S. 1–164, Index 1–24, Taf. Papilionides 1–134, Taf. Hesperides 1–7 (1843–1855); **2** (Hefte 1–2, 6–7, 9–11, 13–15, 17–19, 21, 23, 25–26, 31–32, 37–38, 41, 43–45, 47, 49–52, 54, 56, 59, 67): Sign. 1–57, a–q, S. 1–450, Index [a1]–64, Taf. Hesperides 1, Taf. Cossides 1, Taf. Hepialides & Cossides 2, Taf. Zygaenides 1–113, Taf. Sesiides 1–10, Taf. Sphingides 1–4, Taf. Bombycides 1–32, Taf. Noctuides 1–124, Taf. Nycteolidae 1 (1843–1855); **3** (Hefte 1, 8, 12, 16, 18, 20, 24–27, 31–32, 35–36, 43, 45, 50, 52, 60, 63, 65–66, 69): Sign. 1–23, a–h, k, S. 1–184, Index [1]–34, Taf. Geometrides 1–91 (1843–1856); **4** (Hefte 27–30, 33–34, 39–40, 44, 46, 48, 53, 55, 57, 60, 63, 68): Sign. 1–36, a–m, S. 1–288, Index [1]–48, Taf. Pyralides 1–23, Taf. Tortricides 1–59 (1847–1855); **5** (Hefte 22, 30, 34, 39, 42, 44, 46, 48, 53, 55, 57–68): Sign. 1–50, a–n, S. 1–394, Index [1]–52, Taf. Tineides 1–124, Taf. Pterophides 1–7, Taf. Micropteryges 1 (1847–1855); **6** (Hefte 1, 3, 6–9, 11, 13, 17, 22, 35–38, 40, 48, 55, 60, 68–69): Sign. Erkl. Taf. Umrissen [Macrolep.] a, a*, x–xxx, Erläut. Taf. Umrissen Microlep. 1–2, Nachtr. Bd. 1. 1–23, Syst. Lep. Eur. A–I, K–S, Index Univers. a–m, S. Schlusswort [i]–[iv], Erkl. Taf. Umrissen [Macrolep.] [I]–XVIII, Erläut. Taf. Umrissen Microlep. [I]–VIII, Nachtr. Bd. 1. [1]–178, Syst. Lep. Eur. [1]–72, Index Univers. [1]–48, Taf. Umrisstaf. Macrolep. [I]–XXII, Taf. Umrisstaf. Microlep. I–XIV (1843–1856). — For the publication dates of certain parts of this work see Hemming (1937 1: 579–589); Heppner (1982: 96, 98).
- HESSELBARTH, G., VAN OORSCHOT, H. & WAGENER, S., 1995. Die Tagfalter der Türkei unter Berücksichtigung der angrenzenden Länder. Bd. 1–3 — Bocholt, S. Wagener Selbstverlag. — Bd. 1: 1–758; Bd. 2: 759–1354; Bd. 3: 1–847, 141 Taf., Karten I–IV, 1–342 (S.1–847).
- HEYNE, A., 1897. *Polyommatus virgaureae* L. nov. var. *aureomicans* Heyne. — *Soc.ent.* 12(2): 9 (15 April 1897).
- HIRSCHKE, H., 1903. Eine neue Form der *Lycaena Argiades* Pall.— *Verh.zool.-bot.Ges.Wien* 53: 270.
- HIRSCHKE, H., 1905. Eine neue hochalpine Form der *Lycaena Alcon* F. aus den steirischen Alpen. — *Jber.wien.ent.Ver.* 15 (1904): 109–111, Taf. 2.
- HORN, W., KAHLE, I., FRIESE G. & GAEDIKE R., 1990. Collectiones entomologicae. Eine Kompendium über den Verbleib entomologischer Sammlungen der Welt bis 1960. — Berlin, Akademie der Landwirtschaftswissenschaften der Deutschen Demokratischen Republik. — Teil 1. A bis K. — 220 S.; Teil 2. L bis Z. — S. 221–573.

- HOYNINGEN-HUENE, F., 1883. *Polyommatus* var. *Estonica*. — *Ent.Nachr.* 9: 49–51.
- ICZN — International Code of Zoological Nomenclature, 1999. Fourth edition, adopted by the International Union of Biological Sciences. — International Trust for Zoological Nomenclature, c/o The Natural History Museum, London, xxx + 306 pp.
- KARDAKOFF, N., 1928. Zur Kenntniss der Lepidopteren des Ussuri-Gebietes. — *Ent.Mitt.* 17: 261–273, Taf. 5–7 (5 July 1928).
- KERZHNER, I. M., 1984. The dates of publication of ‘Trudy russkogo entomologicheskogo Obschestva’ and ‘Horae Societatis entomologicae rossicae’, 1861–1932. — *Ent.Obozr.* 63(4): 849–857 (In Russian, English summary).
- KIRBY, W. F., 1871. A synonymic catalogue of diurnal Lepidoptera. — London, van Voorst. — 7+690 p.
- KLUG, [J. C.] FR., 1834. *Symbolae Physicae seu Icones et Descriptiones Insectorum quae ex Itinere per Africam borealem et Asiam occidentalem Friderici Guilelmi Hemprich et Christiani Godofrei Ehrenberg Medicinae et Chirurgiae Doctorum Studio novae aut illustrato redierunt. Decas quarta.* — Berolini, ex Officina Academica, Venditur a Mittlerero. — Signatures *k–l*, Tab. 40 (no pagination; for collation see Baker, 1997: 179).
- KOÇAK, A. Ö., 1980a. On the nomenclature of some genus- and species-group names of the Lepidoptera. — *Nota lepid.* 2(4): 139–146.
- KOÇAK, A. Ö., 1980b. Studies of the family Lycaenidae. III. A review of the sub-species of *Agrodiaetus* (*Sublysandra*) *myrrha* (Herrich-Schaeffer, 1852) (Lep. Lycaenidae). — *Atalanta* (Würzburg) 11: 262–272.
- KOÇAK, A. Ö., 1980c. Notes on the publication dates of the parts of Gerhard’s ‘Versuch einer Monographie der europäischen Schmetterlingsarten *Thecla*, *Polyommatus*, *Lycaena*, *Nemeobius* als Beitrag zur Schmetterlingskunde, 1850–1853’, with a review of some species published in this work. — *Commns Fac.Sci.Univ.Ankara, Ser. C3. Zool.* 24: 16–20.
- KOLLAR, V., 1849. Lepidoptera. In: Kollar, V. & Redtenbacher, L. Ueber den Charakter der Insecten-Fauna von Südpersien. — *Denkschr.Akad.Wiss. Wien, math.-naturw. Cl.* 1: 10–12 (a reprint distributed in 1849; in 1850 published as an article in the above journal with a new pagination: 51–53).
- KUDRNA, O., 1983(1982). An annotated catalogue of the butterflies (Lepidoptera: Papilionoidea) named by Roger Verity. — *J.Res.Lepid.* 21(1): 1–106.
- LANG, H. C., 1884. Rhopalocera Europae descripta et delineata. The butterflies of Europe described and figured. Volume 1. Text. — Reeve, London. vi+396 p.
- LARSEN, T. B., 1983. Insects of Saudi Arabia Lepidoptera; Rhopalocera (A Monograph of the Butterflies of the Arabian Peninsula). In: Fauna of Saudi Arabia. — Pro Entomologia c/o Nat.Hist.Mus. Basle. — 5: 333–475.
- LE CERF, F., 1932. Lépidoptères nouveaux du Maroc. — *Bull.Soc.ent.Fr.* 37(2): 163–166.
- LEDERER, J., 1852. Versuch, die europäischen Lepidopteren (einschliessig der ihrem Habitus nach noch zur europäischen Fauna gehörigen Arten Labradors,

- der asiatischen Türkei und des asiatischen Russlands) in möglichst natürliche Reihenfolge zu stellen, nebst Bemerkungen zu einigen Familien und Arten. I. Abtheilung: Die Rhopaloceren. — *Verh.zool.-bot.Ges.Wien* 2: 14–54.
- LEDERER, J., 1855a. Weiterer Beitrag zur Schmetterlings-Fauna des Altaigebirges in Sibirien. — *Verh.zool.-bot.Ges.Wien* 5: 97–120, 2 Taf.
- LEDERER, J., 1855b. Beitrag zur Schmetterlings-Fauna von Cypern, Beirut und einem Theile Klein-Asiens. — *Verh.zool.-bot.Ges.Wien* 5: 177–254, 3 Taf.
- LEDERER, J., 1857. Ueber die Lycaeniden-Gattungen der europäischen Fauna. — *Wien.ent.Monatschr.* 1: 25–32.
- LEDERER, J., 1861. Ueber Alb. Kindermanns letzte lepidopterologische Ausbeute (Aus Syrien und Palästina). — *Wien.ent.Monatschr.* 5: 144–155.
- LEDERER, J., 1869. Verzeichniss der von Herrn Jos. Haberhauer bei Astrabad in Persien gesammelten Schmetterlinge. — *Horae Soc.ent.ross.* 6: 73–93, Taf. 4, 5.
- LEDERER, J., 1870a. Contributions à la faune des Lépidoptères de la Transcaucasie. — *Annls Soc.ent.Belg.* 13: 17–54, pls.1, 2.
- LEDERER, J., 1870b. Nachtrag zum Verzeichnisse der von Herrn Jos. Haberhauer bei Astrabad in Persien gesammelten Schmetterlinge. — *Horae Soc.ent.ross.* 8: 3–28, Taf. 1–3 (12 October 1870).
- LORKOVIĆ, Z. 1943. Modifikationen und Rassen von *Everes argiades* Pall. und ihre Beziehungen zu den klimatischen Faktoren ihrer Verbreitungsgebiete. — *Mitt.münch.ent.Ges.* 33: 431–478, Taf. 23–27 (1 December 1943).
- LUKHTANOV, V. & LUKHTANOV A., 1994. Die Tagfalter Nordwestasiens (Lepidoptera, Diurna). — Vlg. Ulf Eitschberger, Marktleuthen. — 440 S., 56 Taf. (Herbipoliana <sic>. Buchreihe zur Lepidopterologie. Bd. 3).
- MATSUDA, S., 1996. Taxonomic status of *Thecla orientalis* var. *cognata* Staudinger (Lepidoptera, Lycaenidae), with some notes on its related species. — *Trans.lepid.Soc.Japan* 47(3): 174–187 (In Japanese, English summary; 5 September 1996).
- MILLER, E., 1913 (1912). Neue Rhopalocera aus Transkaukasien. — *Dt.ent.Z. Iris* 26(4): 220–223 (Heft 4 of Band 26 is dated on cover page '31. Dezember 1912'; however it is stamped as received by the Bibliothek des Königl. Zoolog. Museum Berlin at '17. Jan. 1913').
- MÖSCHLER, H. B., 1874. Beitrag zum Schmetterlings-Fauna von Labrador. *Stett.ent.Ztg* 35: 153–166 (April 1874).
- NEKRUTENKO, Y. P. 1983. A revision of the genus *Hyracanana* (Lepidoptera, Lycaenidae). — *Vestnik zoologii* 3: 7–16 (In Russian, English summary).
- NEKRUTENKO, Y. P. 1984a. The blue-butterflies of the USSR fauna, assigned to the genus *Chilades* (Lepidoptera, Lycaenidae). — *Vestnik zoologii* 3: 29–40 (In Russian, English summary).
- NEKRUTENKO, Y. P., 1984b. A revision of the type-specimens of the *Lycaena phoenicurus* group (Lepidoptera, Lycaenidae). — *Vestnik zoologii* 6: 43–49, 2 pls (In Russian, English summary).
- NEKRUTENKO, Y. P., 1985a. The Butterflies of the Crimea. A Guide. — Kiev: Naukova Dumka Publ. — 152 p., 122 ills., 24 colour pls. (In Russian).

- NEKRUTENKO, Y. P., 1985b. New butterfly taxa (Lepidoptera, Lycaenidae) from Transcaucasia and Middle Asia. — *Vestnik zoologii* 4: 29–35. (In Russian, English summary).
- NEKRUTENKO, Y. P., 1990. The Butterflies of Caucasus. A Guide. [vol. 1] Families Papilionidae, Pieridae, Satyridae, Danaidae. — Kiev : Naukova Dumka Publ.. — 215 p., 106 ills., 32 colour pls. (In Russian).
- NEKRUTENKO, Y. P., 1998. A catalogue of the type specimens of Riodinidae and Lycaenidae deposited in the collection of Zoologisches Forschungsinstitut und Museum Alexander Koenig (Bonn). — *Nota lepid.* 21(2): 119–148.
- NEUBURGER, W., 1900. *Lycaena menalcas* Fr. ♂ *aberr.* (Lep.). — *Illte Z.Ent.* 5: 370.
- NEUBURGER, W., 1903. *Chrysophanus ochimus* H.-S. var. *hyrcana* ♂ Neubgr. — *Soc.ent.* 18: 59 (15 July 1903).
- NEUBURGER, W., 1907. Eine neue Abart von *Lycaena icarus* Rott. ♂. — *Soc.ent.* 21: 180 (1 March 1907).
- OLIVIER, A., 1999. On the publication dates of the ‘Versuch einer Monographie der europäischen Schmetterlingsarten: *Thecla*, *Polyommatus* [sic], *Lycaena*, *Nemeobius*. Als Beitrag zur Schmetterlingskunde’ by Paul Bernhard Gerhard (Lepidoptera: Lycaenidae). — *Phegea* 27(4): 127–140.
- OLIVIER, A., 2000a. Discovery of the types of *Polyommatus (Agrodiaetus) actis* and its taxonomic consequences (Lycaenidae). — *Nota lepid.* 23(2): 86–118.
- OLIVIER, A., 2000b. Christian Friedrich Freyer’s “Neuere Beiträge zur Schmetterlingskunde mit Abbildungen nach der Natur”: an analysis, with new data on its publication dates (Insecta, Lepidoptera). — *Beitr.ent.* 50(2): 407–486.
- OLIVIER, A., DE PRINS, W., VAN DER POORTEN, D. & PUPLESIE, J., 1999. On the identity of *Polyommatus (Agrodiaetus) dama*, with lectotype designation and redescription of its karyotype (Lycaenidae). — *Nota lepid.* 22(3): 197–211.
- OLIVIER, A. & NEKRUTENKO, Y. P., 2000. The butterflies described by Johann Christoph Friedrich Klug (1775–1856) in his *Symbolae Physicae*, Insecta (Lepidoptera, Pieridae, Lycaenidae, Nymphalidae): An annotated review, with a catalogue of the existing types. — *Dt.ent.Z.* 47(1): 95–104.
- OLIVIER, A., PUPLESIE, J., VAN DER POORTEN, D., DE PRINS, W. & WIEMERS, M., 1999. Revision of some taxa of the *Polyommatus (Agrodiaetus) transcaspicus* group with description of a new species from Central Anatolia (Lepidoptera: Lycaenidae). — *Phegea* 27(1): 1–24.
- OLIVIER, A., VAN DER POORTEN, D., DE PRINS, W., 1998. Rhopalocera and Grypocera of Turkey 16. Taxonomic notes on *Plebeius christophi* and *Plebeius idas* in northeastern Turkey (Lepidoptera: Lycaenidae). — *Phegea* 26(3): 87–102, 2 pls.
- PÜNGELER, R., 1898. Diagnosen neuer Lepidopteren aus Centralasien. — *Soc.ent.* 13(8): 57–58 (15 July 1898).
- PÜNGELER, R., 1899. Neue Macrolepidopteren aus Central-Asien. — *Dt.ent.Z. Iris* 12: 95–106 (15 September 1899).

- PÜNGELER, R., 1901. Neue Macrolepidopteren aus Central-Asien. — *Dt.ent.Z. Iris* 14: 177–191, Taf. 1–3 (5 October 1901).
- REBEL, H., 1901. Ueber einige neue von Herrn Max Korb in Westasien gesammelte Lepidopterenformen. — *Annln naturhist.Mus.Wien* 16(3–4): 165–169.
- RILEY, N. D., 1925. The species usually referred to the genus *Cigaritis* Boisid. [Lepidoptera: Lycaenidae]. — *Novit.zool.* 32: 70–95, 13 text figs.
- ROMANOFF, N. M., 1884. Les Lépidoptères de la Transcaucasie. Première partie. In: Romanoff, N. M. (ed.) Mémoires sur les Lépidoptères. — St. Pétersbourg, Impr. Stassuléwitch. — 1: 1–92, 5 pl.
- RÜHL, F. & HEYNE, A., [1892–]1895. Die palaearktischen Grossschmetterlinge und ihre Naturgeschichte. 1. Band: Tagfalter. — Leipzig, Heyne. — 857 S. (on dates of publication and authorship of certain parts of this work see Hemming, 1931).
- SCHURIAN, K. G., 1988. Neueinteilung des Subgenus *Lysandra* der Gattung *Polyommatus* Latreille (Lepidoptera: Lycaenidae). — *Ent.Z.* 98(10): 129–144.
- SCHURIAN, K. G., 1989. Ergänzungen und Berichtigungen zu: 'Neueinteilung des Subgenus *Lysandra* der Gattung *Polyommatus* Latreille (Lepidoptera: Lycaenidae)'. — *Ent.Z.* 99(21): 305–320.
- SCHURIAN K. G. & HÄUSER C., 1981. Zoogeographie und spezifische Gliederung der zentral- und ostanatolischen, sowie der iranischen *Meleageria*-Formen (Lepidoptera, Lycaenidae). — *Atalanta* (Würzburg) 12: 101–111.
- SCHURIAN K. G. & HOFMANN, P., 1983 (1982). Entomologische Aufsammlungen und Beobachtungen bei Kizilçahamam (Türkei). — *Nachr.ent.Ver.Apollo* (N. F.) 3(4): 111–127 (August 1983).
- SCHURIAN, K. G., VAN OORSCHOT, H. & VAN DEN BRINK, H., 1992. *Polyommatus (Agrodiaetus) poseidon* (H.-S.) und *Polyommatus (Agrodiaetus) theresiae* sp. nov. aus der Türkei (Lepidoptera: Lycaenidae). — *Nachr.ent.Ver.Apollo* (N. F.) 12(4): 217–232, Farbtaf.
- STANDFUSS, M., 1892. Lepidopterologisches. In: Romanoff, N. M. (ed.) Mémoires sur les Lépidoptères. — St. Pétersbourg, Impr. Stassuléwitch. — 6: 659–669, pl. 15.
- STAUDINGER, O., 1862. Ueber einige neue griechische Lepidopteren. — *Stett.ent.Ztg* 23(4–6): 257–271 [June 1862].
- STAUDINGER, O., 1867. Einige neue Lepidopteren (sämmtlich aus der Sammlung des verstorbenen O. Gruner). — *Stett.ent.Ztg* 28: 100–110.
- STAUDINGER, O., 1870a. Beschreibung neuer Lepidopteren des europäischen Faunengebiets. — *Berl.ent.Z.* 14: 97–132 (April 1870).
- STAUDINGER, O., 1870b Beitrag zur Lepidopteren-Fauna Griechenlands. — *Horae Soc.ent.Ross.* 7: 3–304, 3 Taf.
- STAUDINGER, O., 1871a. [Macrolepidoptera]. In: Staudinger, O. & Wocke, M. Catalog der Lepidopteren des europaeischen Faunengebiets. 2. Aufl. — Dresden, Staudinger, Burdach. — S. I–XXXVIII, 1–200, 374–382, 415–424 (January 1871).
- STAUDINGER, O., 1871b (1870). Beschreibung neuer Lepidopteren des europäischen Faunengebiets. (Schluß.) — *Berl.ent.Z.* 14: 272–330 (January 1871).

- STAUDINGER, O., 1874. Einige neue Lepidopteren des europäischen Faunengebiets. — *Stett.ent.Ztg* 35: 87–98.
- STAUDINGER, O., 1878. Lepidopteren-Fauna Kleinasien's. — *Horae Soc.ent.Ross.* 14: 176–320 (1 November 1878).
- STAUDINGER, O., 1881. Beitrag zur Lepidopteren-Fauna Central-Asiens. — *Stett.ent.Ztg* 42: 253–300 (June 1881).
- STAUDINGER, O., 1886. Centralasiatische Lepidopteren. — *Stett.ent.Ztg* 47: 193–215 (late April 1886); 225–256 (Ende Juni 1886).
- STAUDINGER, O., 1887a. Centralasiatische Lepidopteren. — *Stett.ent.Ztg* 48: 49–102 (early Februar 1887).
- STAUDINGER, O., 1887b. Neue Arten und Varietäten von Lepidopteren aus dem Amur-Gebiet. In: Romanoff, N. M. (ed.) *Mémoires sur les Lépidoptères.* — St. Pétersbourg, Impr. Stassuléwitch. — 3: 126–232, pl.6–12, 16, 17.
- STAUDINGER, O., 1889. Centralasiatische Lepidopteren. — *Stett.ent.Ztg* 50: 16–60.
- STAUDINGER, O., 1892a. Neue Arten und Varietäten von Lepidopteren des paläarktischen Faunengebiets. — *Dt.ent.Z. Iris* 4: 224–339 (February 1892).
- STAUDINGER, O., 1892b. Die Macrolepidopteren des Amurgebiets. I. Theil. Rhopalocera, Sphinges, Bombyces, Noctuae. In: Romanoff, N. M. (ed.) *Mémoires sur les Lépidoptères.* — St.-Pétersbourg, Impr. Stassuléwitsch. — 6: 83–658, pl. 4–14 (12 July 1892).
- STAUDINGER, O., 1892c. Lepidopteren aus Tunis. — *Dt.ent.Z. Iris* 5: 277–300 (December 1892).
- STAUDINGER, O., 1892d. Lepidopteren des Kentei-Gebirges. — *Dt.ent.Z. Iris* 5: 300–393, Taf. 3 (December 1892).
- STAUDINGER, O., 1895. Neue Lepidopteren-Arten und Varietäten aus dem paläarktischen Faunengebiet. — *Dt.ent.Z. Iris* 7: 241–296 (5 January 1895).
- STAUDINGER, O., 1896. Beschreibungen neuer Lepidopteren aus Tibet. — *Dt.ent.Z. Iris* 8: 300–343, Taf. 5, 6 (2 January 1896).
- STAUDINGER, O., 1897. Drei neue paläarktische Lepidopteren. — *Dt.ent.Z. Iris* 10: 152–156, Taf. 5 (27 July 1897).
- STAUDINGER, O., 1899. Ueber die Arten und Formen der *Lycaena damon*-Gruppe. — *Dt.ent.Z. Iris* 12(1): 137–155 (15 September 1899).
- STAUDINGER, O., 1900. Ueber Lepidopteren aus dem östlichen Thian Schan-Gebiet. — *Dt.ent.Z. Iris* 12: 331–351 (25 March 1900).
- STAUDINGER, O., 1901. Macrolepidoptera. In: Staudinger, O. & Rebel H. *Catalog der Lepidopteren des palaeartischen Faunengebietes.* 3. Aufl. 1. Theil. — Berlin, Friedländer. — S. I–XXXII, 1–411.
- STICHEL, H., 1911. Lepidopterologische Ergebnisse einer Sammelreise der Gebrüder Rangnow nach Persien. Mit Neubeschreibungen von R. Püngeler, E. Strand und dem Autor. — *Z.wiss.Ins.-Biol.* 7(2): 73–77 (31 March 1911).
- STRAND, E., 1919. (Neue Beiträge zur Arthropoden-Fauna Norwegens nebst gelegentlichen Bemerkungen über deutsche Arten. XXVII) Beiträge zur Lepidopterenfauna Norwegens und Deutschlands auf Grund von Material

- gesammelt und bearbeitet von Embrik Strand — *Arch.Naturgeschichte A* 4(4): 1: 1–82.
- TSHIKOLOVETS, V. V., 1997a. The butterflies of Pamir. — Bratislava, Slamka. 282 p., 46 pls. (March 1997).
- TSHIKOLOVETS, V. V., 1997b. New blue butterfly taxa (Lepidoptera, Lycaenidae) from Central Asia. Communication V. — *J.Ukr.ent.Soc.* 3(1): 35–40 (20 05.1997).
- VAN OORSCHOT, H. & WAGENER, S., 2000. Zu *Tomares* in der Türkei. Ergänzungen und Korrekturen zu Hesselbarth, van Oorschot & Wagener, 1995: Die Tagfalter der Türkei. 3 (Lepidoptera). — *Phegea* 28(3): 87–117.
- VERITY, R., 1947–1957. Les variations géographiques et saisonnières des papillons diurnes de France. 1–3. — Paris, Le Charles. — 472 p. (for publication dates of certain parts of this work see Kudrna, 1983: 17–18).
- VORBRODT K., 1912. Rhopalocera, Sphingidae, Bombycidae, Noctuidae, Cymatophoridae, Brepidae. *In*: Vorbrodt K. & Müller-Rutz, J. Die Schmetterlinge der Schweiz. 1. Bd. — Bern, Vlg. K. J. Wyss. — S. 1–489.

Appendix

An extraction from *Catalogus Generalis Musei Zoologici Berolinensis*. Vol. 1 (inventory nos 1–3753), Vol. 2 (inventory nos 3754–10098) showing recorded type specimens of the Lycaenidae.

Inventory no.	Species	Specimens no.	Locality	Collector/ Provider
*4091	<i>Iolus Ismenias</i> Kl.	1	Ambukol	Ehrenberg
*4105	<i>Aphnaeus Acamas</i> Kl.	5	Syria	Ehrenberg
*4106	<i>Aphnaeus Acamas</i> Kl.	1	Arabia fel.	Ehrenberg
4117	<i>Deudorix Livia</i> Kl.	1	Arabia fel.	Ehrenberg
4118	" " " " "	[1]	[Aegypt]	[Ehrenberg]
4340	<i>Thecla Sassanides</i> Koll.	2	Persia	Kollar
4341	<i>Thecla Myrtale</i> Kl.	3	Syria	Ehrenberg
4353	<i>Thecla Spini</i> F. Var. <i>Melantho</i>	2	Syria	Ehrenberg
*4554	<i>Chrysophanus Thersamon</i> F. Var. <i>Omphale</i> Kl.	7	Syria	Ehrenberg
*4557	<i>Chrysophanus Thetis</i> Kl.	4	Syria	Ehrenberg
4679	<i>Lycaena Astraea</i> Frey.	2	Amasia	Kindermann
4713	<i>Lycaena Psylorita</i> Friv.	2	Creta	Frivaldszky
4715	<i>Lycaena Rippertii</i> Bsd.	4	Alp. Gallopr.	Boisduval
4721	<i>Lycaena Hopfferi</i> Kind.	2	Amasia	Kindermann
4723	<i>Lycaena Actis</i> HSch.	2	Amasia	Kindermann
4724	<i>Lycaena Iphigenia</i> Friv.	4	Constantinop.	Frivaldszky

Missing specimens are marked with an asterisk.