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Author: Hollier, John

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An annotated list of the flea taxa (Insecta: Siphonaptera) described by Fritz Peus, with an account of the holdings of the Peus collection of the Muséum d'histoire naturelle de Genève

John Hollier

Muséum d'histoire naturelle de Genève, C.P. 6434, CH-1211 Genève 6, Suisse; john.hollier@ville-ge.ch

Abstract: The applied entomologist Fritz Peus (1904-1978) built a collection of fleas that was acquired by the Muséum d'histoire naturelle de Genève, Geneva, Switzerland in 1977; it contains type specimens of most of the flea taxa that he described. These type specimens are listed and the current combination given for each. The whereabouts of other type specimens is given where known. Type specimens that other entomologists exchanged with Peus and present in his collection are listed separately.

Keywords: Type catalogue - parasites - Turkey - Greece.

INTRODUCTION

The German entomologist Friedrich (Fritz) Ferdinand Christian Peus (1904-1978) was born in Siegen and studied in Münster (both in Westphalia), being awarded a doctorate in 1927. Specialising in blood-sucking flies, he worked as an applied entomologist before he joined the Diptera department of the natural history museum in Berlin (now the Museum für Naturkunde) in 1947, becoming curator of Diptera and Siphonaptera in 1949. In 1959 he became director of the zoological section until he left in 1961. From 1962 until 1969 he was professor of applied entomology at (West) Berlin University, and was instrumental in setting up the Institute for Applied Zoology (Schumann, 1980). Peus had a life-long interest in fleas, an order of insects parasitic on vertebrates. Even after retirement he carried on his entomological work, and made a major contribution to our knowledge of the flea fauna of Turkey (Keskin *et al.*, 2018).

In 1977 the Muséum d'histoire naturelle de Genève (MHNG) acquired the Peus' personal flea collection of around 9700 slide preparations, which includes many type specimens. Peus is the author of two genus-level names and 66 species-level names (34 species and 32 subspecies), most of which are still regarded as valid. There is sometimes a discrepancy between the number of specimens mentioned in the original description and the number of specimens labelled as paratypes, but all of the slides labelled as paratypes have the same locality data

and collector as those given in the original descriptions, and all have uniform identification labels.

ARRANGEMENT AND FORMAT

The taxa described by Fritz Peus are listed alphabetically. The locality data and number of specimens are listed verbatim, with the country names added in square brackets when not explicit. The holdings of the MHNG are enumerated, and other depositories of type specimens listed where they are known. Current nomenclature follows Hastriter & Bossard (2018).

The following abbreviations are used:

AT	Allotype ♀
HT	Holotype ♂
CMHN	Carnegie Museum of Natural History, Pittsburgh
MHNG	Muséum d'histoire naturelle de Genève
MNB	Museum für Naturkunde, Berlin
NHMUK	Natural History Museum, London
SMF	Senckenberg Naturmuseum, Frankfurt a. M.
USNM	National Museum of Natural History, Washington D.C.
ZFMK	Zoologisches Forschungsinstitut und Museum Alexander Koenig, Bonn
ZMH	Zoological Museum, Helsinki

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TAXA DESCRIBED BY FRITZ PEUS

GENUS-LEVEL NAMES

Miriampsylla Peus, 1977: 96-97, figs 77-78.
Type species *Miriampsylla jordani* Ioff & Argyropulo, 1934

Myoxopsylla (*Miriampsylla*) Peus, 1977

Ctenophthalmus (*Metactenophthalmus*) Peus, 1977: 70-71.

Type species *Ctenophthalmus* (*Metactenophthalmus*) *hyanis riciensis* Ioff, 1953

Ctenophthalmus (*Metactenophthalmus*) Peus, 1977

SPECIES-LEVEL NAMES

acomydis Peus, 1977: 18-20, fig. 3. [*Xenopsylla*]

Cyprus: Armenian Monastery, Provinz Kyrenia, 26.5.1972, leg. F. Spitzenberger, 1♂; Buffavento Castle, Provinz Kyrenia, 22.5.1972, leg. F. Spitzenberger, 1♂; 5 km E von Buffavento Castle, Provinz Kyrenia, 25.5.1972, leg. F. Spitzenberger, 2♂2♀ (HT, AT).

The MHNG collection contains three slides: MHNG-ARTO-0032203 with the ♂ holotype and ♀ allotype; MHNG-ARTO-0032204 with a ♂ paratype; MHNG-ARTO-0032205 with a ♂ paratype. Peus collection box 5.

According to their online database there is one ♂ paratype and one ♀ paratype in the NHMUK.

Xenopsylla acomydis Peus, 1977

aegaeus Peus, 1978c: 76-77, figs 11-14. [*Nosopsyllus* (*Nosopsyllus*)]

Griechland, Sporaden/S-Agäis, Insel Karpathos, Pigadia, IV.1963, leg. H. Pieper, 3♂2♀ (HT, AT); Karpathos, Aperi, 13.IV.1963, leg. H. Pieper, 3♂.

The MHNG collection contains four slides: MHNG-ARTO-0032206 with the ♂ holotype and one ♂ paratype; MHNG-ARTO-0032207 with the ♀ allotype; MHNG-ARTO-0032208 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0032209 with two ♂ paratypes. Peus collection box 66.

According to the original description there are two ♂ paratypes in the SMF (SMF Si 557 and SMF Si 558) (the Siphonaptera collection is not entered in their online database).

Nosopsyllus (*Nosopsyllus*) *aegaeus* Peus, 1978

afghanus Peus, 1957: 605-608, figs 2-5. [*Nosopsyllus* (*Gerbillophillus*)]

Umgebung von Kabul, Afghanistan, 1740 m, 3.XI.1952, leg. J. Klapperich, 1♂ (HT).

No specimens found in the MHNG. Peus stated in the original description that the specimen would be deposited in the MNB.

Nosopsyllus afghanus Peus, 1957

agyrtes corsus Peus, 1963: 435-436, fig. 4. [*Ctenophthalmus*]

Corte [Corsica], 17.IV.52, Gestein unter einer Gruppe von *Quercus ilex* im Restonica-Tal (400 m), leg. H. Kahmann, 1♂1♀; Vezzani, 21.IV.53, Terrassen-Kulturen (780 m), leg. H. Kahmann, 1♂ (HT).

The MHNG collection contains one slide, MHNG-ARTO-0032224, with the ♂ holotype. Peus collection box 40

Peus had seen a ♀ from the same locality but doubted that it was conspecific.

A junior synonym of *Ctenophthalmus* (*Ctenophthalmus*) *agyrtes sardiniensis* Ioff, 1928

agyrtes fennicus Peus, 1950: 290, fig. 3b. [*Ctenophthalmus*]

Kaunianen (Nylandia, Finnland), 17.X.1930. Unspecified series.

No type specimens found in the MHNG. According to the original description the type series is in the ZMH.

Ctenophthalmus (*Ctenophthalmus*) *agyrtes fennicus* Peus, 1950

agyrtes jordanianus Peus, 1950: 292-293, fig. 3d. [*Ctenophthalmus*]

Cam Kuria, Rila-Gebirge (Bulgarien), 13.VIII.1927, leg. J. Buresch.

No type specimens found in the MHNG. According to the original description the type series is in the NHMUK, and their online database lists a specimen as the holotype. A junior synonym of *Ctenophthalmus* (*Ctenophthalmus*) *agyrtes graecus* Jordan, 1926

agyrtes kleinschmidtianus Peus, 1950: 295, fig. 5. [*Ctenophthalmus*]

Sambor (Galizien) [Ukraine], 7.II.1944, leg. H. Kreig. Unspecified series.

The MHNG collection contains one slide, MHNG-ARTO-0032225, with the ♂ holotype. There are three other slides from the same locality which presumably carry paratypes although not labelled as such: MHNG-ARTO-0032226 with two ♀ probable paratypes; MHNG-ARTO-0032227 with one ♀ probable paratype; MHNG-ARTO-0032228 with two ♀ probable paratypes. Peus collection box 43.

According to their online database there are two ♂ paratypes in NHMUK.

Ctenophthalmus (*Ctenophthalmus*) *agyrtes kleinschmidtianus* Peus, 1950

agyrtes prothelenus Peus, 1958: 156-157, figs 16-19. [*Ctenophthalmus*]

Griechenland, Dirphys-Gebirge (Euböa), Regio submontana, 5.V.1956, 2♂7♀ (HT); Dirphys-Gebirge, regio submontana, 6.V.1956, 1♂1♀; Dirphys-Gebirge, regio submontana, 7.V.1956; 21♂16♀; Dirphys-Gebirge, regio montana, 8.V.1956, 1♂2♀.

The MHNG collection contains 21 slides: MHNG-ARTO-0032229 with the ♂ holotype; MHNG-ARTO-0032230 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0032231 with one ♂ paratype; MHNG-ARTO-0032232 with two ♀ paratypes; MHNG-ARTO-0032233 with two ♀ paratypes; MHNG-ARTO-0032234 with three ♀ paratypes; MHNG-ARTO-0032235 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0032236 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0032237 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0032238 with one ♂ and one ♀ paratype; MHNG-ARTO-0032239 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0032240 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0032241 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0032242 with one ♂ paratype; MHNG-ARTO-0032243 with one ♂ paratype; MHNG-ARTO-0032244 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0032245 with one ♂ paratype; MHNG-ARTO-0032246 with one ♂ paratype; MHNG-ARTO-0032247 with one ♂ paratype; MHNG-ARTO-0032248 with two ♀ paratypes; MHNG-ARTO-0032249 with one ♀ paratype. Peus collection box 42.

According to their online database there are three ♂ paratypes and two ♀ paratypes in the NHMUK. There is one ♂ paratype (SIP 1978/27) and three ♀ paratypes (SIP 1978/26, SIP 1978/28 and SIP 1978/29) in the ZFMK (Lampe *et al.*, 2006).

Ctenophthalmus (Ctenophthalmus) agyrtes prothelenus Peus, 1958

agyrtes rugosus Peus, 1959: 93-95, figs 2-3. [*Ctenophthalmus*]

Sizilien, Plano degli Zucchi, Le Madonie, 1100 m, 20-21.VI.1957, leg. E. Krampitz, 2♂1♀ (HT); Portella Gazzana bei Longi, 22.VI.1955, leg. E. Krampitz, 7♂5♀; Linguaglossa, 11.VII.1955, leg. E. Krampitz, 1♀.

The MHNG collection contains ten slides: MHNG-ARTO-0032270 with the ♂ holotype; MHNG-ARTO-0032271 with one ♀ paratype; MHNG-ARTO-0032272 with one ♀ paratype; MHNG-ARTO-0032273 with one ♂ paratype; MHNG-ARTO-0032274 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0032275 with one ♂ paratype; MHNG-ARTO-0032276 with one ♂ paratype; MHNG-ARTO-0032277 with one ♂ paratype; MHNG-ARTO-0032278 with one ♀ paratype; MHNG-ARTO-0032279 with one ♀ paratype. Peus collection box 40.

According to their online database there are two ♂ paratypes and two ♀ paratypes in the NHMUK.

Ctenophthalmus (Ctenophthalmus) agyrtes rugosus Peus, 1959

agyrtes smitianus Peus, 1950: 297, fig. 7e. [*Ctenophthalmus*]

Davensberg in Westfalen [Germany], 26-27.III.1947, leg. Peus. Unspecified series.

The MHNG collection contains 18 slides of type specimens: MHNG-ARTO.0032280 with the ♂ holotype; MHNG-ARTO-0032281 with two ♂ paratypes; MHNG-ARTO-0032282 with two ♂ paratypes; MHNG-ARTO-0032283 with two ♂ paratypes; MHNG-ARTO-0032284 with two ♂ paratypes; MHNG-ARTO-0032285 with two ♀ paratypes; MHNG-ARTO-0032286 with two ♀ paratypes; MHNG-ARTO-0032287 with two ♀ paratypes; MHNG-ARTO-0032288 with two ♂ paratypes; MHNG-ARTO-0032289 with two ♂ paratypes; MHNG-ARTO-0032290 with two ♂ paratypes; MHNG-ARTO-0032291 with two ♂ paratypes; MHNG-ARTO-0032292 with two ♂ paratypes; MHNG-ARTO-0032293 with two ♂ paratypes; MHNG-ARTO-0032294 with two ♂ paratypes; MHNG-ARTO-0032295 with two ♂ paratypes; MHNG-ARTO-0032296 with two ♀ paratypes; MHNG-ARTO-0032297 with two ♀ paratypes. Peus collection box 35.

According to their online database there are eight ♂ paratypes on slides and an unspecified number of paratypes in alcohol in the NHMUK.

Ctenophthalmus (Ctenophthalmus) agyrtes smitianus Peus, 1950

agyrtes taygetus Peus, 1958: 157-160, figs 20-23. [*Ctenophthalmus*]

Griechenland, Taygetos-Gebirge, Peloponnes, Regio montana, 27.IV.1956, 42♂20♀ (HT).

The MHNG collection contains 13 slides: MHNG-ARTO-0032250 with the ♂ holotype; MHNG-ARTO-0032251 with one ♂ paratype; MHNG-ARTO-0032252 with one ♂ paratype; MHNG-ARTO-0032253 with one ♂ paratype; MHNG-ARTO-0032254 with two ♀ paratypes; MHNG-ARTO-0032255 with one ♂ paratype; MHNG-ARTO-0032256 with one ♂ paratype; MHNG-ARTO-0032257 with one ♂ paratype; MHNG-ARTO-0032258 with one ♂ paratype; MHNG-ARTO-0032259 with one ♂ paratype; MHNG-ARTO-0032260 with one ♂ paratype; MHNG-ARTO-0032261 with one ♂ paratype; MHNG-ARTO-0032262 with one ♂ paratype. Peus collection box 42.

According to their online database there are four ♂ paratypes and two ♀ paratypes in the NHMUK. There is one ♂ paratype (SIP 1978/18) and two ♀ paratypes (SIP 1978/16 and SIP 1978/17) in the ZFMK (Lampe *et al.*, 2006)

Ctenophthalmus (Ctenophthalmus) agyrtes taygetus Peus, 1958

agyrtes wagnerianus Peus, 1950: 290, fig. 3c. [*Ctenophthalmus*]

Ratece (Slovenien), 10.VII.1931, leg. J. Wagner. Unspecified series.

No type specimens found in the MHNG. According to their online database the ♂ holotype is in the NHMUK.

Ctenophthalmus (Ctenophthalmus) agyrtes wagnerianus Peus, 1950

angulosus Peus, 1977: 64, fig. 37. [*Ctenophthalmus (Euctenophthalmus)*]

Iran: Weyser, Mazandaran, 1-6.8.1968, leg. H. Steiner, 1♂; Assalem, Ghilan, 1100-1250 m, 17-24.7.1968, leg. H. Steiner, 1♂4♀ (HT, AT).

The MHNG collection has four slides: MHNG-ARTO-0032341 with the ♂ holotype; MHNG-ARTO-0032342 with the ♀ allotype and one ♀ paratype; MHNG-ARTO-0032343 with two ♀ paratypes; MHNG-ARTO-0032344 with one ♂ paratype. There is another slide, MHNG-ARTO-0032345, with a ♀ specimen doubtfully attributed to this species and not part of the type series. Peus collection box 53.

Ctenophthalmus (Euctenophthalmus) angulosus Peus, 1977

assimilis bernhardus Peus, 1965: 263-264, figs 6-7. [*Ctenophthalmus*]

Pertouli, Pindus-Gebirge (Griechenland) ca. 30 km westlich von Trikkala, 1200 m, 8.X.1958, leg. B. Mannheim, 1♂ (HT); Katara ca. 6 km nordöstlich von Metsovon am Nordrand des Pindus-Gebirges, 1700 m, 2.X.1958, leg. B. Mannheim 4♂4♀ (AT); idem, 6.X.1968, leg. B. Mannheim, 1♂.

The MHNG collection contains two slides with specimens from Katara: MHNG-ARTO-0032444 with one ♂ paratype; MHNG-ARTO-0032445 with one ♀ paratype. Peus collection box 48.

According to their online database there is one ♂ paratype and one ♀ paratype in the NHMUK. There are three ♂ paratypes (SIP 1978/13, SIP 1978/14 and SIP 1978/15) and one ♀ paratype (SIP 1978/12) in the ZFMK (Lampe *et al.*, 2006). It is not clear where the holotype is deposited.

Ctenophthalmus (Euctenophthalmus) assimilis bernhardus Peus, 1965

baueri Peus, 1978a: 54-55, fig. 7. [*Ctenophthalmus (Spalacoctenophthalmus)*]

Yalova, Vilayet Çanakkale (Gelibolu) [Turkey], 19.5.1968, leg. F. Spitzenberger & K. Bauer, 13♂12♀ (HT, AT). Loc. Thrakien (Türkei), Yalova, 19.V.1968, Vilayet Çanakkale [Gelibolu], Hosp. *Spalax leucodon* Nordmann, leg. Fr. Spitzenberger & Kurt Bauer.

The MHNG collection contains 14 slides: MHNG-ARTO-0032469 with the ♂ holotype and one ♀ paratype; MHNG-ARTO-0032470 with the ♀ allotype and one ♂ paratype; MHNG-ARTO-0032471 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0032472 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0032473 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0032474 with one ♂ paratype; MHNG-ARTO-0032475 with one ♂ paratype; MHNG-ARTO-0032476 with one ♀ paratype; MHNG-ARTO-0032477 with one ♀ paratype; MHNG-ARTO-0032478 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0032479 with one ♂ paratype and one ♀

paratype; MHNG-ARTO-0032480 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0032481 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0032482 with one ♂ paratype and one ♀ paratype. Peus collection box 24.

Ctenophthalmus (Spalacoctenophthalmus) baueri Peus, 1978

bidentata risea Peus, 1977: 73-74, fig. 50. [*Peromyscopsylla*]

Turkey: Rize, Çat, Çamlıhemşin, 1250 m, 16.9.1968, leg. H. Steiner, 1♂2♀ (HT, AT).

The MHNG collection contains three slides: MHNG-ARTO-0032298 with the ♂ holotype; MHNG-ARTO-0032299 with the ♀ allotype; MHNG-ARTO-0032300 with one ♂ paratype. Peus collection box 56.

Peromyscopsylla bidentata risea Peus, 1977

bithynicus Peus, 1977: 44, fig. 22. [*Ctenophthalmus (Palaeoctenophthalmus)*]

Turkey: Cankiri, Eskipazar, 24.9.1965, leg. D. Koch, 1♂ (HT).

No specimens found in the MHNG. According to the original description the holotype is in the SMF (the Siphonaptera collection is not entered in their online database).

Ctenophthalmus (Palaeoctenophthalmus) bithynicus Peus, 1977

buerschii anatolicus Peus, 1977: 62-64, fig. 36. [*Ctenophthalmus (Euctenophthalmus)*]

Turkey: Antalya, Ciglikara, Kohu Dag, 1750 m, 15-21.6.1969, leg. F. Spitzenberger, 5♂2♀ (HT, AT).

The MHNG collection contains five slides: MHNG-ARTO-0032312 with the ♂ holotype; MHNG-ARTO-0032313 with the ♀ allotype and one ♀ paratype; MHNG-ARTO-0032314 with one ♂ paratype; MHNG-ARTO-0032315 with one ♂ paratype; MHNG-ARTO-0032316 with one ♂ paratype. Peus collection box 54.

According to their online database there is one ♂ paratype in the NHMUK. This implies that the number of specimens was cited incorrectly in the original description.

Ctenophthalmus (Euctenophthalmus) buerschii anatolicus Peus, 1977

campestris Peus, 1949: 96-98, figs 7-8. [*Euctenophthalmus*]

Sora bei Wilthen (Oberlausitz), Lausitzer Gebirge [Germany], 1.II.47, leg. G. Heinrich, 2♂.

The MHNG collection contains one slide, MHNG-ARTO-0032446, with the ♂ holotype. Peus collection box 48.

A junior synonym of *Ctenophthalmus (Euctenophthalmus) assimilis assimilis* (Taschenberg, 1880)

congener geminus Peus, 1959: 98-101, figs 7-8. [*Ctenophthalmus*]

Sizilien, Misilmeri (Prov. Palermo), 150 m, 1.V.1955, leg. E. Krampitz, 1♂ (HT); Portella Gazzana, 22.VI.1955, leg. E. Krampitz, 2♂2♀; Piano degli Zucchi, 20-21.VI.1957, leg. E. Krampitz 1♀.

The MHNG collection contains 14 slides: MHNG-ARTO-0032371 with the ♂ holotype; MHNG-ARTO-0032372 with one ♂ paratype; MHNG-ARTO-0032373 with one ♂ paratype; MHNG-ARTO-0032374 with one ♂ paratype; MHNG-ARTO-0032375 with one ♂ paratype; MHNG-ARTO-0032376 with one ♂ paratype; MHNG-ARTO-0032377 with one ♀ paratype; MHNG-ARTO-0032378 with one ♀ paratype; MHNG-ARTO-0032379 with one ♀ paratype; MHNG-ARTO-0032380 with one ♂ paratype; MHNG-ARTO-0032381 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0032382 with one ♂ paratype; MHNG-ARTO-0032383 with one ♂ paratype; MHNG-ARTO-0032384 with one ♂ paratype. Peus collection box 51.

According to their online database there are four ♂ paratypes and two ♀ paratypes in the NHMUK.

Ctenophthalmus (Euctenophthalmus) congener geminus Peus, 1959

congener italoscopus Peus, 1958: 163-164, fig. 26. [*Ctenophthalmus*]

Griechenland, Dirphys-Gebirge (Euböa), regio submontana, 8.V.1956, 2♂5♀ (HT); Dirphys-Gebirge, regio submontana, 7.V.1956, 6♂3♀; Dirphys-Gebirge, regio submontana, 6.V.1956, 1♂; Taygetos (Peloponnes), regio montana, 27.IV.1956, 98♂77♀; Koulouka bei Marathea (Peloponnes, Maina), 21-22.IV.1956, 5♂7♀.

In the original description Peus stated that he only considered the specimens from Dirphys to be types.

The MHNG collection contains eight slides with type specimens: MHNG-ARTO-0032346 with the ♂ holotype; MHNG-ARTO-0032347 with two ♀ paratypes; MHNG-ARTO-0032348 with two ♀ paratypes; MHNG-ARTO-0032349 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0032350 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0032351 with one ♂ paratype; MHNG-ARTO-0032352 with one ♀ paratype; MHNG-ARTO-0032353 with one ♂ paratype; MHNG-ARTO-0032354 with one ♂ paratype. Peus collection box 50.

According to their online database there are two ♂ and one ♀ paratypes in the NHMUK.

Ctenophthalmus (Euctenophthalmus) congener italoscopus Peus, 1958

congener levadianus Peus, 1958: 162-163, fig. 25. [*Ctenophthalmus*]

Griechenland, Lavadia (Böotien), Regio submontana, 17.V.1956, 18♂7♀ (HT).

The MHNG collection contains 11 slides: MHNG-

ARTO-0032360 with the ♂ holotype; MHNG-ARTO-0032361 with one ♂ paratype; MHNG-ARTO-0032362 with two ♂ paratypes; MHNG-ARTO-0032363 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0032364 with one ♂ paratype; MHNG-ARTO-0032365 with one ♂ paratype; MHNG-ARTO-0032366 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0032367 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-00322368 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0032369 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0032370 with one ♂ paratype and one ♀ paratype. Peus collection box 50. According to their online database there are three ♂ paratypes and one ♀ paratype in the NHMUK. There is one ♂ paratype (SIP 1978/19) in the ZFMK (Lampe *et al.*, 2006).

Ctenophthalmus (Euctenophthalmus) congener levadianus Peus, 1958

congener troilus Peus, 1954: 126-127, figs 11-12. [*Ctenophthalmus*]

Oiti-Gebirge, Nordseite oberhalb der Kapelle Taxiarchis [Greece], 30.V.52, 6♂6♀.

The MHNG collection contains five slides with type specimens: MHNG-ARTO-0032355 with the ♂ holotype; MHNG-ARTO-0032356 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0032357 with one ♀ paratype; MHNG-ARTO-0032358 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0032359 with one ♂ paratype and one ♀ paratype. Peus collection box 50.

According to the original description two ♂ and five ♀ paratypes were going to be deposited in the MNB. There are two ♂ paratypes and two ♀ paratypes in the NHMUK according to their online database.

Ctenophthalmus (Euctenophthalmus) congener troilus Peus, 1954

coniunctus Peus, 1977: 64, fig. 38. [*Ctenophthalmus (Euctenophthalmus)*]

Turkey: Rize, Ayder-Iliçasi, Çamlıhemşin, 1330 m, leg. H. Steiner, 1♂; Rize, Elevit, Çamlıhemşin, 1860 m, 15-23.8.1967, leg. H. Steiner, 3♂3♀ (HT); Rize, Ülkü, Kaza Çamlıhemşin, ca. 500 m, 8.4.1967, leg. H. Steiner, 3♂3♀; Rize, Ülkü, Kaza Çamlıhemşin, ca. 500 m, 9.4.1971, leg. P. Weish, 4♂5♀ (AT); Rize, Çat, Çamlıhemşin, 1250 m, 14-13.8.1967, leg. H. Steiner, 1♂2♀; idem, 17.9.1968, leg. H. Steiner, 1♀; idem, 17.4.1969, leg. H. Steiner 1♂3♀.

The MHNG collection contains 16 slides: MHNG-ARTO-0032323 with the ♂ holotype; MHNG-ARTO-0032324 with one ♀ paratype; MHNG-ARTO-0032325 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0032326 with one ♀ paratype; MHNG-ARTO-0032327 with one ♂ paratype; MHNG-ARTO-0032328 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0032329 with one ♂ paratype; MHNG-ARTO-0032330 with one ♂ paratype; MHNG-

ARTO-0032331 with one ♂ paratype and the ♀ allotype; MHNG-ARTO-0032332 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0032333 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0032334 with one ♂ paratype and two ♀ paratypes; MHNG-ARTO-0032335 with one ♂ paratype; MHNG-ARTO-0032336 with one ♂ paratype; MHNG-ARTO-0032337 with two ♀ paratypes; MHNG-ARTO-0032338 with one ♂ paratype and one ♀ paratype. Peus collection box 53.

According to their online database there are two ♂ paratypes and two ♀ paratypes in the NHMUK. The original description states that there is one ♂ paratype and one ♀ paratype in the USNM.

Ctenophthalmus (Euctenophthalmus) coniunctus Peus, 1977

contiger Peus, 1977: 64, fig. 39. [*Ctenophthalmus (Euctenophthalmus)*]

Turkey: Artvin, Karanlik-Mese, am WNW-Hang des Yalnizçam daghlari, ca. 1400 m, 18.6.1961, leg. H. Steiner, 1♂; Artvin, Kutul, Yalnizçam-Gebirge, ca. 2200 m, 18.7.1962, leg. H. Steiner, 1♂ (HT).

The MHNG collection contains two slides: MHNG-ARTO-0032339 with the ♂ holotype; MHNG-ARTO-0032340 with one ♂ paratype. Peus collection box 53.

Ctenophthalmus (Euctenophthalmus) contiger Peus, 1977

copidophora Peus, 1977: 36, fig. 14. [*Palaeopsylla*]

Iran: Assalem, Ghilan, 1100-1250 m, 23.7.1968, leg. H. Steiner, 1♂1♀ (HT, AT).

The MHNG collection contains two slides: MHNG-ARTO-0032486 with the ♂ holotype; MHNG-ARTO-0032487 with the ♀ allotype. Peus collection box 21.

Palaeopsylla copidophora Peus, 1977

dampfi irana Peus, 1977: 31-33, fig. 11. [*Doratopsylla*]

Iran: Weyser, Mazandaran. 1-6.8.1968, leg. H. Steiner, 22♂7♀ (HT, AT); Weyser, Mazandaran, 27.7.1971, leg. H. Steiner 8♂18♀; Assalem, Ghilan, 1100-1250 m, 17-24.7.1968, leg. H. Steiner, 5♂6♀.

The MHNG collection contains 29 slides: MHNG-ARTO-0033615 with the ♂ holotype and one ♂ paratype; MHNG-ARTO-0033616 with the ♀ allotype and one ♂ paratype; MHNG-ARTO-0033617 with one ♀ paratype; MHNG-ARTO-0033618 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0033619 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0033620 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0033621 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0033622 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0033623 with two ♂ paratypes; MHNG-ARTO-0033624 with two ♂ paratypes; MHNG-ARTO-0033625 with one ♂ paratype; MHNG-ARTO-0033626 with one ♂ paratype and one ♀

paratype; MHNG-ARTO-0033627 with two ♂ paratypes; MHNG-ARTO-0033628 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0033629 with four ♀ paratypes; MHNG-ARTO-0033630 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0033631 with two ♀ paratypes; MHNG-ARTO-0033632 with two ♀ paratypes; MHNG-ARTO-0033633 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0033634 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0033635 with two ♂ paratypes; MHNG-ARTO-0033636 with two ♂ paratypes; MHNG-ARTO-0033637 with two ♂ paratypes; MHNG-ARTO-0033638 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0033639 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0033640 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0033641 with two ♀ paratypes; MHNG-ARTO-0033642 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0033643 with one ♂ paratype. Peus collection box 19.

According to their online database there are two ♂ paratypes and two ♀ paratypes in the NHMUK. The original description states that there are two ♂ paratypes and two ♀ paratypes in the USNM.

Doratopsylla dampfi irana Peus, 1977

dissimilis Peus, 1968: 63-67, plate 3 figs 1-2, plate 4 figs 1-2, plate 5 figs 1-2, plate 6 fig. 1. [*Palaeopsylla*]

Ostpreussen Bernstein, coll. A. Scheele, 1♂ (HT).

No specimens found in the MHNG. The original description states that the ♂ holotype is in the Geologisches Staatsinstitut Hamburg (Typen-Katalog 825).

Palaeopsylla dissimilis Peus, 1968

dryomydis Peus, 1977: 99, fig. 78. [*Miriampsylla*]

Turkey: Konya, 25 km S von Hadim, 15.8.1971, leg. F. Spitzenberger, 1♂2♀ (HT, AT); Antalya, Cigikara, Kohu Dagh, 1750 m, 19.6.1969, leg. F. Spitzenberger, 1♂.

The MHNG collection contains three slides: MHNG-ARTO-0032483 with the ♂ holotype; MHNG-ARTO-0032484 with the ♀ allotype and one ♀ paratype; MHNG-ARTO-0032485 with one ♂ paratype. Peus collection box 75.

Myoxopsylla (Miriampsylla) dryomydis (Peus, 1977)

egregius Peus, 1964: 468-471, figs 1-2. [*Ctenophthalmus (Ctenophthalmus)*]

[Italy] Monte Cimone (Toskanischer Apennin, Emilia, Prov. Modena), 1600 m, 18.VI.1960, leg. K. Bauer & J. Niethammer, 7♂7♀ (HT, AT); Pianosinatico (Toskan.), 16.IV.1960, leg. K. Bauer & J. Niethammer, 2♂4♀; Alpe Tre Potenze (Toskan.), 22.VI.1960, leg. K. Bauer & J. Niethammer, 2♂4♀; Abetone (Toskan.), 24.VI.1960, leg. K. Bauer & J. Niethammer, 1♀; Monte Gomito bei Abetone, 18.VI.1960, leg. K. Bauer & J. Niethammer, 2♀.

The MHNG collection contains 19 slides: MHNG-ARTO-0032450 with one ♂ paratype; MHNG-

ARTO-0032451 with one ♀ paratype; MHNG-ARTO-0032452 with one ♂ paratype; MHNG-ARTO-0032453 with one ♀ paratype; MHNG-ARTO-0032454 with one ♀ paratype; MHNG-ARTO-0032455 with one ♂ paratype; MHNG-ARTO-0032456 with one ♀ paratype; MHNG-ARTO-0032457 with one ♀ paratype; MHNG-ARTO-0032458 with one ♀ paratype; MHNG-ARTO-0032459 with one ♀ paratype; MHNG-ARTO-0032460 with one ♂ paratype; MHNG-ARTO-0032461 with one ♀ paratype; MHNG-ARTO-0032462 with one ♂ paratype; MHNG-ARTO-0032463 with one ♀ paratype; MHNG-ARTO-0032464 with one ♀ paratype; MHNG-ARTO-0032465 with one ♂ paratype; MHNG-ARTO-0032466 with one ♀ paratype; MHNG-ARTO-0032467 with one ♀ paratype; MHNG-ARTO-0032468 with one ♀ paratype. Peus collection box 24.

According to their online database the ♂ holotype, two ♂ paratypes and two ♀ paratypes are in the NHMUK.

Ctenophthalmus (Ctenophthalmus) egregius egregius Peus, 1964

fredericae Peus, 1977: 51-53, fig. 31. [*Ctenophthalmus (Medioctenophthalmus)*]

Turkey: Konya, 62 km NNE von Demirtas, 13.8.1971, leg. F. Spitzenberger, 1♂ (HT).

The MHNG collection contains one slide, MHNG-ARTO-0032301, with the ♂ holotype. Peus collection box 54.

Ctenophthalmus (Medioctenophthalmus) fredericae Peus, 1977

gallinulae zilianus Peus, 1954: 140-141, figs 19c, 21. [*Dasypsyllus*]

Griechenland, Schlucht des Gebirgsfusses Ziliana zwischen Olymp und Kato Olymp, [leg. Peus] 25.VI.52, 20♂10♀.

The MHNG collection contains seven slides: MHNG-ARTO-0032210 with the ♂ holotype; MHNG-ARTO-0032211 with two ♂ paratypes; MHNG-ARTO-0032212 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0032213 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0032214 with two ♂ paratypes; MHNG-ARTO-0032215 with two ♂ paratypes; MHNG-ARTO-0032216 with two ♂ paratypes. Peus collection box 76.

The original description states that the ♂ holotype and an unspecified number of paratypes are in the MNB. According to their online database there are six ♂ paratypes and two ♀ paratypes in the NHMUK. There is one ♂ paratype (SIP 1978/23) and two ♀ paratypes (SIP 1978/24 and SIP 1978/15) in the ZFMK (Lampe *et al.*, 2006).

A junior synonym of *Dasypsyllus gallinulae gallinulae* (Dale, 1878)

gratus elaeus Peus, 1958: 160-161, fig. 24. [*Ctenophthalmus*]

Griechenland, Eläon (Böétien), 15.V.1956, 4♂2♀ (HT). The MHNG collection contains two slides: MHNG-ARTO-0032217 with the ♂ holotype; MHNG-ARTO-0032218 with one ♂ paratype and one ♀ paratype. Collection Peus box 52.

According to their online database there are two ♂ paratypes and one ♀ paratype in the NHMUK.

Ctenophthalmus (Euctenophthalmus) gratus elaeus Peus, 1958

gratus menoetius Peus, 1954: 125-126, figs 9d, e, 10b. [*Ctenophthalmus*]

Griechenland, Liamokladi bei Lamia, 1.VI.52, 6♂4♀.

The MHNG collection contains four slides with type specimens: MHNG-ARTO-0032219 with the ♂ holotype; MHNG-ARTO-0032220 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0032221 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0032222 with one ♂ paratype and one ♀ paratype. There are also twenty-two slides with non-type specimens. Peus collection box 52.

According to their online database there are two ♂ paratypes and one ♀ paratype in the NHMUK.

Ctenophthalmus (Euctenophthalmus) gratus menoetius Peus, 1954

gypaetina Peus, 1978c: 71-76, figs 3, 5, 7, 9-10. [*Callopsylla (Callopsylla)*]

Spanien, Provinz Jaén, Agua Mula/Sierra Cazorla, 1800 m, aus Nistmaterial eines bewohnten Horstes des Bartgeiers *Gypaetus barbatus* (Linnaeus, 1758), 18.V.1959, leg. K. Klemmer, 5♂4♀ (HT, AT).

The MHNG collection contains three slides: MHNG-ARTO-0032488 with one ♂ paratype; MHNG-ARTO-0032489 with one ♂ paratype; MHNG-ARTO-0032490 with one ♀ paratype. Peus collection box 74.

The original description states that the ♂ holotype, ♀ allotype, two ♂ paratypes and two ♀ paratypes are in the SMF (SMF Si 427, SMF Si 432 and SMF Si 428 to SMF Si 431, respectively).

Callopsylla (Callopsylla) gypaetina Peus, 1978

hamata Peus, 1964: 473-475, figs 4-6. [*Palaeopsylla*]

Monte Gargano (Italien), Foresta Umbra, 13-14.V.1961, 800 m, leg. K. Bauer & J. Niethammer, 1♂2♀ (HT, AT). The MHNG collection contains one slide, MHNG-ARTO-0032223, with one ♀ paratype. Peus collection box 20.

The original description states that there is a paratype in the NHMUK, but this is not listed in their online database. According to the original description the holotype was in Peus' collection, and its whereabouts is unknown.

Palaeopsylla hamata Peus, 1964

hellespontius Peus, 1978a: 51-53, fig. 2. [*Ischnopsyllus*] Seddülbahir, Vilayet Çanakkale (Gelibolu), 1.6.1967, leg. F. Spitzenberger & K. Bauer, 1♂1♀ (HT, AT).

The MHNG collection contains one slide, MHNG-ARTO-0033543, with the ♂ holotype and the ♀ allotype. Peus collection box 9.

Ischnopsyllus (Ischnopsyllus) hellespontius Peus, 1978

hirundinis oiticus Peus, 1954: 129-131, fig. 14 a-d. [*Ceratophyllus*]

Griechenland, Oiti-Gebirge, Felswände bei der Kapelle Ajos Taxiarchis oberhalb des Dorfes Kompotades 27.V.52, 11♂13♀ (HT); Karya, Olymp, ca. 900 m, 26.VI.52, 9♂30♀; Levadia, Böotien, 15.V.52, 1♂.

The MHNG collection contains 28 slides: MHNG-ARTO-0033666 with the ♂ holotype; MHNG-ARTO-0033667 with two ♀ paratypes; MHNG-ARTO-0033668 with two ♀ paratypes; MHNG-ARTO-0033669 with two ♀ paratypes; MHNG-ARTO-0033670 with one ♂ paratype; MHNG-ARTO-0033671 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0033672 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0033673 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0033674 with two ♀ paratypes; MHNG-ARTO-0033675 with two ♀ paratypes; MHNG-ARTO-0033676 with two ♀ paratypes; MHNG-ARTO-0033677 with one ♀ paratype; MHNG-ARTO-0033678 with one ♂ paratype; MHNG-ARTO-0033679 with two ♀ paratypes; MHNG-ARTO-0033680 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0033681 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0033682 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0033683 with two ♀ paratypes; MHNG-ARTO-0033684 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0033685 with two ♀ paratypes; MHNG-ARTO-0033686 with two ♀ paratypes; MHNG-ARTO-0033687 with two ♀ paratypes; MHNG-ARTO-0033688 with two ♀ paratypes; MHNG-ARTO-0033689 with two ♀ paratypes; MHNG-ARTO-0033690 with two ♀ paratypes; MHNG-ARTO-0033691 with two ♀ paratypes; MHNG-ARTO-0033692 with two ♀ paratypes; MHNG-ARTO-0033693 with two ♀ paratypes. Peus collection box 78.

The original description states that the holotype and some paratypes from Oiti are in the MNB. According to their online database there are six ♂ paratypes and five ♀ paratypes in the NHMUK. There is one ♂ paratype (SIP 1978/20) and two ♀ paratypes (SIP 1978/21 and SIP 1978/22) in the ZFMK (Lampe *et al.*, 2006).

A junior synonym of *Ceratophyllus hirundinis* (Curtis, 1826)

incisa Peus, 1977: 37-39, fig. 15. [*Palaeopsylla*]

Turkey: Rize, Elevit, Çamlıhemşin, 1860 m, 15-23.8.1967, leg. H. Steiner, 1♂; Rize, Ülkü, Kaza Çamlıhemşin, ca. 500 m, 27.8.1967, leg. H. Steiner, 1♂, 6-13.4.1969, leg. H. Steiner, 1♂; Rize, Ülkü, Kaza

Çamlıhemşin, ca. 500 m, 6.4.1971, leg. P. Weish, 2♂ (HT); Rize, Çat, Çamlıhemşin, 1250 m, 13-14.8.1967, leg. H. Steiner, 1♀; idem, 16.9.1968, leg. H. Steiner, 3♂1♀; idem, April 1969, leg. H. Steiner, 4♂; idem, 4-13.8.1967, leg. H. Steiner, 3♂5♀; Trabzon, Maryem Ana, knapp über 1000 m, 9-10.6.1961, leg. H. Steiner, 2♂3♀ (AT).

The MHNG collection contains 21 slides: MHNG-ARTO-0033575 with the ♂ holotype; MHNG-ARTO-0033576 with the ♀ allotype; MHNG-ARTO-0033577 with one ♀ paratype; MHNG-ARTO-0033758 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0033579 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0033580 with one ♀ paratype; MHNG-ARTO-0033581 with one ♂ paratype; MHNG-ARTO-0033582 with one ♂ paratype; MHNG-ARTO-0033583 with one ♂ paratype; MHNG-ARTO-0033584 with one ♂ paratype; MHNG-ARTO-0033585 with one ♂ paratype; MHNG-ARTO-0033586 with one ♂ paratype; MHNG-ARTO-0033587 with one ♂ paratype; MHNG-ARTO-0033588 with one ♂ paratype; MHNG-ARTO-0033589 with one ♂ paratype; MHNG-ARTO-0033590 with one ♂ paratype; MHNG-ARTO-0033591 with one ♂ paratype; MHNG-ARTO-0033592 with one ♂ paratype; MHNG-ARTO-0033593 with one ♂ paratype; MHNG-ARTO-0033594 with one ♀ paratype; MHNG-ARTO-0033595 with one ♀ paratype. Peus collection box 23.

According to their online database there are two ♂ paratypes and two ♀ paratypes in the NHMUK. The original description states that there are one ♂ paratype and two ♀ paratypes in the USNM.

Palaeopsylla (Palaeopsylla) incisa Peus, 1977

lewisi Peus, 1977: 66, fig. 40. [*Ctenophthalmus (Euctenophthalmus)*]

Iran: Dasht-Lateh, Mazandran, 1450 m, 24.8.1968, leg. H. Steiner, 10♂2♀ (HT, AT).

The MHNG collection contains four slides: MHNG-ARTO-0032266 with the ♂ holotype and one male paratype; MHNG-ARTO-0032267 with the ♀ allotype; MHNG-ARTO-0032268 with two ♂ paratypes; MHNG-ARTO-0032269 with one ♀ paratype. Peus collection box 53.

According to their online database there are two ♂ paratypes in the NHMUK.

Ctenophthalmus (Euctenophthalmus) lewisi Peus, 1977

londiniensis styliifer Peus, 1978b: 512-514, fig. 6. [*Nosopsyllus*]

[Turkey] Anatolien, Ovacevirmeköyü, 10 km S Hınıs, Vilayet Erzerum, 6.1975, leg. F. Spitzenberger, 2♂ (HT). The MHNG collection contains two slides: MHNG-ARTO-0032501 with the ♂ holotype; MHNG-ARTO-0032502 with one ♂ paratype. Peus collection box 66.

A junior synonym of *Nosopsyllus medus* Jordan, 1938

obliqua Peus, 1977: 39, fig. 17. [*Palaeopsylla*]
Turkey: Rize, Ülkü, Kaza Çamlıhemşin, ca. 500 m,
6.4.1971, leg. P. Weish, 1♂1♀ (HT, AT).

The MHNG collection contains one slide, MHNG-ARTO-0033570, with the ♂ holotype and the ♀ allotype. Peus collection box 23.

Palaeopsylla (Palaeopsylla) obliqua Peus, 1977

obtusa Peus, 1977: 39, fig. 16. [*Palaeopsylla*]

Turkey: Ordu, Ulubey, unmittelbar westlich des Kizildere, auf einem zum Çanik daghlari gehörenden Höhenrücken, 900-1100 m, 20.5.1961, leg. H. Steiner, 6♂ (HT).

The MHNG collection contains four slides: MHNG-ARTO-0033571 with the ♂ holotype; MHNG-ARTO-0033572 with one ♂ paratype; MHNG-ARTO-0033573 with one ♂ paratype; MHNG-ARTO-0033574 with one ♂ paratype. Peus collection box 23.

The original description states that there are two ♂ paratypes in the NHMUK, but these are not listed in their online database.

Palaeopsylla (Palaeopsylla) obtusa Peus, 1977

obtusus recurvus Peus, 1951: 236-238, figs 2, 4-5. [*Euctenophthalmus*]

Jesenilky, Rejvíz, Morava, 27.IX.1949, leg. Grulich 1♂ (HT); idem, X.1949, leg. Kratochvíl, 1♀.

No specimens found in the MHNG. According to the original description the type specimens were in the collection of B. Rosicky of Prague (783/10/9 and 784/4/4).

A junior synonym of *Ctenophthalmus (Euctenophthalmus) obtusus* Jordan & Rothschild, 1912

orientalis guentheri Peus, 1977: 26-28, fig. 7. [*Hystrichopsylla*]

Turkey: Artvin, Kutul, Yalvizçam-Gebirge, ca. 2200 m, 17.7.1962, leg. H. Steiner, 1♂; Rize, Elevit, Çamlıhemşin, 1860 m, 15-23.8.1967, leg. H. Steiner, 1♀; Rize, Çat, Çamlıhemşin, 1250 m, 13-14.8.1967, leg. H. Steiner, 1♂2♀ (HT); Kastamonu, Ilgaz Dag, 1800 m, 9.6.1968, leg. H. Korge, 3♀; Bolu, 10 km NE vom Abant Gölü, 13.8.1970, leg. F. Spitzenberger, 2♂; Antalya, Ciglikara, Kohu Dag, 1750 m, 13.6.1969, leg. F. Spitzenberger, 1♂4♀ (AT).

The MHNG collection contains nine slides: MHNG-ARTO-0033606 with the ♂ holotype; MHNG-ARTO-0033607 with one ♀ paratype; MHNG-ARTO-0033608 with one ♂ paratype; MHNG-ARTO-0033609 with one ♂ paratype; MHNG-ARTO-0033610 with one ♂ paratype; MHNG-ARTO-0033611 with two ♀ paratypes; MHNG-ARTO-0033612 with two ♀ paratypes; MHNG-ARTO-0033613 with one ♀ paratype; MHNG-ARTO-0033614 with one ♀ paratype. Peus collection box 14.

According to their online database there is one ♂ paratype and one ♀ paratype in the NHMUK.

Hystrichopsylla (Hystrichopsylla) orientalis guentheri Peus, 1977

orphilus heinrichi Peus, 1949: 98-102, figs 9, 10b, 11c. [*Ctenophthalmus*]

[Germany] Berchtesgaden (Oberbayern), VI.1947 & 19.VII.47, leg. G. Heinrich, 7♂10♀ (HT).

The MHNG collection contains three slides: MHNG-ARTO-0032317 with the ♂ holotype; MHNG-ARTO-0032318 with one ♀ paratype; MHNG-ARTO-0032319 with one ♂ paratype and one ♀ paratype. Peus collection box 54.

According to their online database there is one ♂ paratype and one ♀ paratype in the NHMUK.

A junior synonym of *Ctenophthalmus (Medioctenophthalmus) orphilus dolomiticus* Jordan, 1928

oxygonia Peus, 1965: 257-258, figs 1-3. [*Palaeopsylla*]

Lovćen-Gebirge bei Cetinje, Jugoslawien (Montenegro), 1000 m, 27.V.1962, leg. G. Witte, 2♂ (HT); Katara, Pindus-Gebirge (Griechenland), 1.X.1958, leg. B. Mannheim, 1♀ (AT).

The MHNG collection contains one slide with a type specimen, MHNG-ARTO-0033513, with one ♂ paratype. Peus collection box 20.

According to their online database the ♂ holotype, ♀ allotype and a ♂ paratype are in the NHMUK. The locality data on the MHNG slide is consistent with the original description, suggesting that either Peus misstated the number of specimens available to him, or that the NHMUK specimen referred to as a paratype is not part of the type series.

Palaeopsylla oxygonia Peus, 1965

paganus Peus, 1949: 92-96, figs 1-2, 3a-b, 4-5. [*Nosopsyllus*]

[Germany] Schönefeld (Kreis Teltow, südl. Berlin), 19.8.47, leg. G. Heinrich, 2♂1♀ (HT); Pāwesin (Kreis West-Havelland, Brandenburg), 10.8.47, 1♀.

The MHNG collection contains four slides, three of them with type specimens: MHNG-ARTO-0033514 with the ♂ holotype; MHNG-ARTO-0033515 with one ♀ paratype; MHNG-ARTO-0033516 with one ♀ paratype. The fourth slide, MHNG-ARTO-0033517, has one ♂ specimen collected after the publication of the original description and therefore not part of the type series. Peus collection box 66.

The original description states that there is one ♂ paratype in the NHMUK, but this is not listed in their online database.

A junior synonym of *Nosopsyllus fasciatus* (Bosc, 1800)

penicilliger dioplesius Peus, 1958: 165-167, figs 27-29. [*Malariaeus*]

Griechenland, Olymp (Thessalien), Regio montana, 22.VI.1956, 10♂6♀ (HT); idem, 18.VI.1956, 4♂6♀.

The MHNG collection contains ten slides: MHNG-ARTO-0033518 with the ♂ holotype; MHNG-ARTO-0033519 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0033520 with one ♂ paratype and one ♀

paratype; MHNG-ARTO-0033521 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0033522 with two ♀ paratypes; MHNG-ARTO-0033523 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0033524 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0033525 with one ♂ paratype; MHNG-ARTO-0033526 with one ♂ paratype; MHNG-ARTO-0033527 with one ♂ paratype and one ♀ paratype. Peus collection box 73.

The original description states that there are three ♂ paratypes and two ♀ paratypes in the NHMUK, but these are not listed in their online database.

A junior synonym of *Amalareus arvicolae* (Ioff, 1948)

peridolius Peus, 1977: 21-25, fig. 5. [*Ischnopsyllus* (*Ischnopsyllus*)]

Turkey: Rize, Çat, Çamlıhemşin, 1250 m, 4-13.8.1967, leg. H. Steiner, 13♂34♀ (HT, AT).

The MHNG collection contains 26 slides: MHNG-ARTO-0033544 with the ♂ holotype; MHNG-ARTO-0033545 with the ♀ allotype and one ♀ paratype; MHNG-ARTO-0033546 with one ♂ paratype; MHNG-ARTO-0033547 with one ♂ paratype; MHNG-ARTO-0033548 with two ♀ paratypes; MHNG-ARTO-0033549 with one ♂ paratype; MHNG-ARTO-0033550 with one ♂ paratype; MHNG-ARTO-0033551 with one ♂ paratype; MHNG-ARTO-0033552 with one ♂ paratype; MHNG-ARTO-0033553 with one ♂ paratype; MHNG-ARTO-0033554 with one ♂ paratype; MHNG-ARTO-0033555 with one ♀ paratype; MHNG-ARTO-0033556 with two ♀ paratypes; MHNG-ARTO-0033557 with two ♀ paratypes; MHNG-ARTO-0033558 with one ♀ paratype; MHNG-ARTO-0033559 with two ♀ paratypes; MHNG-ARTO-0033560 with one ♀ paratype; MHNG-ARTO-0033561 with two ♀ paratypes; MHNG-ARTO-0033562 with two ♀ paratypes; MHNG-ARTO-0033563 with two ♀ paratypes; MHNG-ARTO-0033564 with two ♀ paratypes; MHNG-ARTO-0033565 with two ♀ paratypes; MHNG-ARTO-0033566 with two ♀ paratypes; MHNG-ARTO-0033567 with two ♀ paratypes; MHNG-ARTO-0033568 with two ♀ paratypes; MHNG-ARTO-0033569 with one ♂ paratype. Peus collection box 9.

According to their online database there are two ♂ paratypes and 2 ♀ paratypes in the NHMUK. The original description states that there is one ♂ paratype and two ♀ paratypes in the USNM.

Ischnopsyllus (*Ischnopsyllus*) *peridolius* Peus, 1977

prorogatus Peus, 1977: 66-68, fig. 41. [*Ctenophthalmus* (*Euctenophthalmus*)]

Turkey: Rize, Ülkü, Kaza Çamlıhemşin, ca. 500 m, 8.4.1969, leg. H. Steiner, 1♂1♀; Trabzon, Maryem Ana, knapp über 1000 m, 9.6.1961, leg. H. Steiner, 6♂3♀ (HT, AT).

The MHNG collection contains eight slides: MHNG-ARTO-0032304 with the ♂ holotype; MHNG-

ARTO-0032305 with the ♀ allotype; MHNG-ARTO-0032306 with one ♀ paratype; MHNG-ARTO-0032307 with one ♂ paratype; MHNG-ARTO-0032308 with one ♂ paratype; MHNG-ARTO-0032309 with one ♂ paratype; MHNG-ARTO-0032310 with one ♀ paratype; MHNG-ARTO-0032311 with one ♂ paratype. Peus collection box 54.

According to their online database there is one ♂ paratype in the NHMUK.

Ctenophthalmus (*Euctenophthalmus*) *prorogatus* Peus, 1977

reconditus Peus, 1977: 42, fig. 20. [*Ctenophthalmus* (*Palaeoctenophthalmus*)]

Turkey: 30 miles N. of Bolu, Bolu Province, at about 3,500 ft., 11.viii.1953, leg. H. Hoogstraal, 4♂3♀ (HT, AT).

No specimens found in the MHNG. According to the original description the type specimens were in the collection of R. Traub. The Traub flea collection is now in the CMNH.

Ctenophthalmus (*Palaeoctenophthalmus*) *reconditus* Peus, 1977

rossittensis monasteriensis Peus, 1941: 439, fig. 1. [*Ceratophyllus*]

Münster, Westfalen.

No specimens found in the MHNG. The whereabouts of the type specimen(s) is unknown.

A junior synonym of *Ceratophyllus rossittensis* Dampf, 1913

rostigajevi Peus, 1977: 49-51, figs 29-30. [*Ctenophthalmus* (*Medioctenophthalmus*)].

Turkey: Rize, Çat, Çamlıhemşin, 1250 m, 16.9.1968, leg. H. Steiner, 1♂; idem, 17.9.1968, leg. H. Steiner, 1♂ (HT).

The MHNG collection contains two slides: MHNG-ARTO-0032302 with the ♂ holotype; MHNG-ARTO-0032303 with the ♂ paratype. Peus collection box 54.

Ctenophthalmus (*Medioctenophthalmus*) *rostigajevi* Peus, 1977

secundus cilicius Peus, 1977: 70, fig. 45. [*Ctenophthalmus* (*Euctenophthalmus*)]

Turkey: Mersin, 19 km N von Arslanköy, 19.7.1970, leg. F. Spitzenberger, 9♂8♀ (HT, AT).

The MHNG collection contains seven slides: MHNG-ARTO-0032385 with the ♂ holotype, one ♂ paratype and one ♀ paratype; MHNG-ARTO-0032386 with the ♀ allotype and one ♂ paratype; MHNG-ARTO-0032387 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0032388 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0032389 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0032390 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0032391 with one ♂ paratype and one ♀ paratype. Peus collection box 51.

According to their online database there is one ♂ paratype and one ♀ paratype in the NHMUK.

Ctenophthalmus (Euctenophthalmus) secundus cilicius Peus, 1977

secundus iubatus Peus, 1977: 69, fig. 44. [*Ctenophthalmus (Euctenophthalmus)*]

Turkey: Antalya, 56 km N von Akseki, 11.7.1970, leg. F. Spitzenberger, 18♂6♀ (HT, AT).

The MHNG collection contains nine slides: MHNG-ARTO-0032392 with the ♂ holotype and one ♀ paratype; MHNG-ARTO-0032393 with the ♀ allotype and one ♂ paratype; MHNG-ARTO-0032394 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0032395 with three ♂ paratypes; MHNG-ARTO-0032396 with three ♂ paratypes; MHNG-ARTO-0032397 with three ♂ paratypes; MHNG-ARTO-0032398 with three ♂ paratypes; MHNG-ARTO-0032399 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0032400 with two ♀ paratypes. Peus collection box 51.

According to their online database there are two ♂ paratypes in the NHMUK.

Ctenophthalmus (Euctenophthalmus) secundus iubatus Peus, 1977

secundus thracicus Peus, 1978a: 57, fig. 10. [*Ctenophthalmus (Euctenophthalmus)*]

Greece, Nomos Evros, Nea Chili, W Alexandroupolis, 16.6.1965, leg. F. Spitzenberger & K. Bauer, 2♂1♀ (HT); and 15 other sites in Greece and Turkey 40♂36♀.

The MHNG collection contains 43 slides: MHNG-ARTO-0032401 with the ♂ holotype and ♀ allotype; MHNG-ARTO-0032402 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0032403 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0032404 with two ♂ paratypes and one ♀ paratype; MHNG-ARTO-0032405 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0032406 with one ♂ and one ♀ paratype; MHNG-ARTO-0032407 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0032408 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0032409 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0032410 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0032411 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0032412 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0032413 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0032414 with one ♂ paratype; MHNG-ARTO-0032415 with one ♀ paratype; MHNG-ARTO-0032416 with one ♂ paratype; MHNG-ARTO-0032417 with one ♀ paratype; MHNG-ARTO-0032418 with one ♀ paratype; MHNG-ARTO-0032419 with one ♂ paratype; MHNG-ARTO-0032420 with two ♂ paratypes; MHNG-ARTO-0032421 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0032422 with one ♀ paratype; MHNG-ARTO-0032423 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0032424 with one ♀ paratype;

MHNG-ARTO-0032425 with one ♂ paratype; MHNG-ARTO-0032426 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0032427 with three ♂ paratypes; MHNG-ARTO-0032428 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0032429 with one ♂ paratype; MHNG-ARTO-0032430 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0032431 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0032432 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0032433 with two ♂ paratypes; MHNG-ARTO-0032434 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0032435 with one ♂ paratype; MHNG-ARTO-0032436 with two ♀ paratypes; MHNG-ARTO-0032437 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0032438 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0032439 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0032440 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0032441 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0032442 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0032443 with one ♂ paratype and one ♀ paratype. Peus collection box 51.

Ctenophthalmus (Euctenophthalmus) secundus thracicus Peus, 1978

smiti Peus, 1965: 260-262, figs 4-5. [*Palaeopsylla*]

Katara, Pindus-Gebirge (Griechenland), 1600 m, 1.X.1958, leg. B. Mannheim, 1♂ (HT).

No type specimens found in the MHNG. According to their online database the ♂ holotype is in the NHMUK.

Palaeopsylla smiti Peus, 1965

sobrina Peus, 1958: 151-153, figs 9-12. [*Rhadinopsylla (Actenophthalmus)*]

Griechenland, Oiti-Gebirge (Phthiotis), Regio montana, 21.V.1956, 1♂ (HT).

The MHNG collection contains one slide, MHNG-ARTO-0033512, with the ♂ holotype. Peus collection box 16.

Rhadinopsylla sobrina Peus, 1958

socia Peus, 1977: 80-82, fig. 57. [*Amphipsylla*]

Turkey: Kars-Artvin, Yalnizçam geçidi (Pass Ardahan), Yalnizçam-Gebirge, 20.6.1961, leg. H. Steiner 1♂6♀ (HT, AT); Artvin, Kutul, Yalnizçam-Gebirge, ca. 2200 m, 18.7.1962, leg. H. Steiner, 1♀.

The MHNG collection contains eight slides: MHNG-ARTO-0033504 with the ♂ holotype; MHNG-ARTO-0033505 with the ♀ allotype; MHNG-ARTO-0033506 with one ♀ paratype; MHNG-ARTO-0033507 with one ♀ paratype; MHNG-ARTO-0033508 with one ♀ paratype; MHNG-ARTO-0033509 with one ♀ paratype; MHNG-ARTO-0033510 with one ♀ paratype; MHNG-ARTO-0033511 with one ♀ paratype. Peus collection box 59.

Amphipsylla socia Peus, 1977

solutus siculus Peus, 1959: 95-97, figs 4, 6. [*Ctenophthalmus*]

Sizilien, Bosco Bellia bei Piazza Armerina, Prov. Enna, 700 m, 28.VI.1957, leg. E. Krampitz, 4♂ (HT); Castelbuono, 5.VI.1957, leg. E. Krampitz, 1♀.

The MHNG collection contains ten slides: MHNG-ARTO-0033528 with the ♂ holotype; MHNG-ARTO-0033534 with one ♂ paratype; MHNG-ARTO-0033535 with one ♂ paratype; MHNG-ARTO-0033536 with one ♂ paratype; MHNG-ARTO-0033537 with one ♂ paratype; MHNG-ARTO-0033538 with one ♂ paratype; MHNG-ARTO-0033539 with one ♂ paratype; MHNG-ARTO-0033540 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0033541 with one ♂ paratype; MHNG-ARTO-0033542 with two ♀ paratypes. Peus collection box 44.

According to the original description the paratypes are in the NHMUK, but they are not listed in their online database.

Ctenophthalmus (Ctenophthalmus) solutus siculus Peus, 1959

spiniger Peus, 1978b: 510-511, fig. 5. [*Ctenophthalmus (Palaeoctenophthalmus)*]

Anatolien, Cilo dağ, E Hakari, Vilayet Hakâri, 7.1974, leg. F. Spitzenberger, 2♂2♀ (HT, AT).

The MHNG collection contains three slides: MHNG-ARTO-0032447 with the ♂ holotype; MHNG-ARTO-0032448 with the ♀ allotype and one ♂ paratype; MHNG-ARTO-0032449 with one ♀ paratype. Peus collection box 24.

Ctenophthalmus (Palaeoctenophthalmus) spiniger Peus, 1978

steineri Peus, 1977: 101-103, fig. 79. [*Malaraeus*]

Turkey: Rize, Ovit, İkizdere, 2270 m, 7-9.9.1967, leg. H. Steiner, 1♂1♀ (HT, AT).

The MHNG collection contains two slides: MHNG-ARTO-0032497 with the ♂ holotype; MHNG-ARTO-0032498 with the ♀ allotype. Peus collection box 71.

Amalaraeus steineri (Peus, 1977)

tapina Peus, 1977: 86, fig. 63. [*Oropsylla*]

Turkey: Konya, 29 km E von Divle, 5.8.1970, leg. F. Spitzenberger, 1♂ (HT).

The MHNG collection contains one slide, MHNG-ARTO-0033503, with the ♂ holotype. Peus collection box 62.

Oropsylla (Oropsylla) tapina Peus, 1977

taschenbergi cressida Peus, 1954: 119-120, figs 2, 3a, 4d. [*Leptopsylla*]

Griechenland, Oiti-Gebirge bei Lamia, Nordseite oberhalb der Kapelle Ajos Taxiarchus, 800 m, 23.V.52, 1♂; idem, 25.V.52, 1♂1♀.

The MHNG collection contains one slide, MHNG-

ARTO-0032495, with the ♂ holotype. The specimen on another slide, MHNG-ARTO-0032496, was collected after the publication of the original description and is therefore not a type. Peus collection box 58.

According to the original description there are type specimens in the MNB.

Leptopsylla taschenbergi cressida Peus, 1954

tibareus Peus, 1977: 68, fig. 42. [*Ctenophthalmus (Euctenophthalmus)*]

Turkey: Ordu, Ulubey, unmittelbar westlich des Kizildere, auf einem zum Çanik daghlari gehörenden Höhenrücken, 900-1100 m, 20.5.1961, leg. H. Steiner, 1♂ (HT).

The MHNG collection contains one slide, MHNG-ARTO-0032322 with the ♂ holotype. Peus collection box 53.

Ctenophthalmus (Euctenophthalmus) tibareus Peus, 1977

OTHER TYPE SPECIMENS IN THE PEUS COLLECTION

Peus was in contact with many other entomologists, and obtained type specimens of some species described by them by exchange.

agyrtes eurous Jordan & Rothschild, 1912. [*Ctenophthalmus (Ctenophthalmus)*]

The MHNG collection contains two slides with type specimens: MHNG-ARTO-0033645 with two ♂ paratypes; MHNG-ARTO-0033646 with one ♂ paratype and one ♀ paratype. Peus collection box 40.

Ctenophthalmus (Ctenophthalmus) agyrtes eurous Jordan & Rothschild, 1912

agyrtes impavidus Jordan, 1928. [*Ctenophthalmus (Ctenophthalmus)*]

The MHNG collection has four slides with type specimens: MHNG-ARTO.0033647 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0033648 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0033649 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0033650 with one ♀ paratype. Peus collection box 40.

Ctenophthalmus (Ctenophthalmus) agyrtes impavidus Jordan, 1928

agyrtes jiroveci Rosicky, 1955. [*Ctenophthalmus (Ctenophthalmus)*]

The MHNG collection contains one slide, MHNG-ARTO-0033605, with one ♂ paratype. Peus collection box 41.

A junior synonym of *Ctenophthalmus (Ctenophthalmus) agyretes peusianus* Rosicky, 1955

agyrtes oreadis Jordan & Rothschild, 1920. [*Ctenophthalmus (Ctenophthalmus)*]

The MHNG collection contains six slides: MHNG-ARTO-0033598 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0033599 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0033600 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0033601 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0033602 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0033603 with one ♂ paratype and one ♀ paratype. Peus collection box 41.

A junior synonym of *Ctenophthalmus* (*Ctenophthalmus*) *verbanus* Jordan & Rothschild, 1920

agyrtes ropotamensis Rosicky, 1959. [*Ctenophthalmus* (*Ctenophthalmus*)]

The MHNG collection contains three slides with type specimens: MHNG-ARTO-0032263 with one ♀ paratype; MHNG-ARTO-0032264 with one ♂ paratype; MHNG-ARTO-0032265 with one ♂ paratype. Peus collection box 43.

Ctenophthalmus (*Ctenophthalmus*) *agyrtes ropotamensis* Rosicky, 1959

agyrtes slovacicus Rosicky, 1950 [*Ctenophthalmus* (*Ctenophthalmus*)]

The MHNG collection contains one slide, MHNG-ARTO-0033604, with one ♂ paratype. Peus collection box 41.

A junior synonym of *Ctenophthalmus* (*Ctenophthalmus*) *agyrtes agyrtes* (Heller, 1896)

andorrensis Smit, 1960. [*Ctenophthalmus* (*Ctenophthalmus*)]

The MHNG collection contains three slides: MHNG-ARTO-0033531 with one ♂ paratype; MHNG-ARTO-0033532 with one ♀ paratype; MHNG-ARTO-0033533 with one ♀ paratype. Peus collection box 44.

Ctenophthalmus (*Ctenophthalmus*) *andorrensis andorrensis* Smit, 1960

apertus allani Smit, 1954. [*Ctenophthalmus* (*Ctenophthalmus*)]

The MHNG collection contains two slides: MHNG-ARTO-0033529 with one ♂ paratype; MHNG-ARTO-0033530 with one ♀ paratype. Peus collection box 44.

Ctenophthalmus (*Ctenophthalmus*) *apertus allani* Smit, 1954

arvicola smitianus Rosicky, 1959. [*Malaraeus*]

The MHNG collection contains two slides with the same locality data, although only one is labelled as a paratype: MHNG-ARTO-0032499 with one ♂ paratype; MHNG-ARTO-0032500 with one ♀ specimen. Peus collection box 71.

A junior synonym of *Amalaraeus arvicolae* Ioff, 1948.

caspia rhodopeia Rosicky, 1959. [*Callopsylla*]

The MHNG collection contains four slides, all with the same locality data, although only two are labelled as paratypes: MHNG-ARTO-0032491 with one ♀ specimen; MHNG-ARTO-0032492 with one ♀ paratype; MHNG-ARTO-0032493 with one ♂ specimen; MHNG-ARTO-0032494 with one ♂ paratype. Peus collection box 74.

A junior synonym of *Callopsylla caspia caspia* (Ioff & Argyropulo, 1934)

cunicularis Smit, 1957b. [*Xenopsylla*]

The MHNG collection contains two slides with type specimens: MHNG-ARTO-0033596 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0033597 with one ♂ paratype and one ♀ paratype. Peus collection box 5.

Xenopsylla cunicularis Smit, 1957

dolomydis Smit, 1957a. [*Ctenophthalmus* (*Medioctenophthalmus*)]

The MHNG collection contains two slides with type specimens: MHNG-ARTO-0032320 with one ♀ paratype; MHNG-ARTO-0032321 with one ♂ paratype. Peus collection box 54.

Ctenophthalmus (*Medioctenophthalmus*) *dolomydis* Smit, 1957

dolomydis Smit, 1957a. [*Rhadinopsylla*]

The MHNG collection contains two slides with type specimens: MHNG-ARTO-0033652 with one ♂ paratype; MHNG-ARTO-0033653 with one ♀ paratype. Peus collection box 16.

Rhadinopsylla dolomydis Smit, 1957

glaphyrus Dampf, 1907. [*Ceratophyllus*]

The MHNG collection contains one slide, MHNG-ARTO-0033651, with one ♂ specimen. According to a label on the slide Peus identified this specimen as the holotype in 1966. Peus collection box 91.

A junior synonym of *Ceratophyllus gallinae* Schrank, 1803)

levanticus Lewis, 1964. [*Ctenophthalmus* (*Euctenophthalmus*)]

The MHNG collection contains six slides: MHNG-ARTO-0033660 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0033661 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0033662 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0033663 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0033664 with one ♂ paratype and one ♀ paratype; MHNG-ARTO-0033665 with one ♂ paratype and one ♀ paratype. Peus collection box 52.

Ctenophthalmus (*Euctenophthalmus*) *levanticus* Lewis, 1964

pullatus Jordan & Rothschild, 1920. [*Ceratophyllus*]
The MHNG collection contains four slides with type specimens: MHNG-ARTO-0033654 with one ♂ paratype; MHNG-ARTO-0033655 with two ♀ paratypes; MHNG-ARTO-0033656 with one ♀ paratype; MHNG-ARTO-0033657 with one ♂ paratype. Peus collection box 84.

Ceratophyllus pullatus Jordan & Rothschild, 1920

secundus bulgaricus Rosicky, 1959. [*Ctenophthalmus* (*Euctenophthalmus*)]

The MHNG collection contains two slides with type specimens: MHNG-ARTO-0033658 with one ♂ paratype; MHNG-ARTO-0033659 with one ♂ paratype. Peus collection box 51.

A junior synonym of *Ctenophthalmus* (*Euctenophthalmus*) congener *vicarious* Jordan & Rothschild, 1921

turba Smit, 1958. [*Lagaropsylla*]

The MHNG collection has one slide, MHNG-ARTO-0033644, with one ♂ paratype and one ♀ paratype. Peus collection box 10.

Lagaropsylla turba Smit, 1958

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