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Type specimens of Phthiraptera in the collection of Jadwiga ZŁOTORZYCKA preserved in the Museum of Natural History, University of Wrocław

PAWEŁ JAŁOSZYŃSKI¹, DANIEL R. GUSTAFSSON², ANNA WANAT¹, MAREK WANAT¹

¹Museum of Natural History, University of Wrocław, Sienkiewicza 21, 50-335 Wrocław, Poland. E-mail: scydmaenus@yahoo.com (PJ), anna.wanat@uni.wroc.pl (AW), wanatm@biol.uni.wroc.pl (MW)

²Department of Biology, University of Utah, 257 South 1400 East, Salt Lake City, UT-84112-0840, USA. E-mail: kotatsu.no.leo@gmail.com

ABSTRACT. The Phthiraptera type specimen collection of Jadwiga ZŁOTORZYCKA preserved in the Museum of Natural History, University of Wrocław, consists of 88 holotypes, one neotype and 628 paratypes (total 717 specimens) of 124 species and subspecies of Amblycera and Ischnocera. Details of each taxon and type specimen are listed, including the original combination and current status, museum catalogue number and collecting localities. The contribution of ZŁOTORZYCKA to the knowledge of Phthiraptera is discussed.

Key words: ZŁOTORZYCKA, Insecta, Phthiraptera, Mallophaga, type collection, Wrocław University, Poland.

INTRODUCTION

Jadwiga ZŁOTORZYCKA (1926–2002) was born in Warsaw, but her family soon moved to Lviv, and in 1945 ZŁOTORZYCKA returned to Poland to study biology in the University of Wrocław. Already during her student years she assisted Jan KINEL in the restoration of what remained of the collections of the Zoological Museum (currently Museum of Natural History, University of Wrocław (MNHW)), damaged or scattered during WWII. Her MSc thesis was focused on cuckoo wasps (Hymenoptera: Chrysididae) and was supervised by Jan NOSKIEWICZ. In 1950 ZŁOTORZYCKA was employed in the Museum, at that time headed by prof. Janina JANISZEWSKA, a renowned parasitologist. It was apparently JANISZEWSKA's influence that decided about the future scientific career of ZŁOTORZYCKA. She changed her research focus from Hymenoptera to chewing lice (at that time a separate order Mallophaga) and this group became the subject of

her PhD thesis. ZŁOTORZYCKA soon became a specialist in taxonomy, morphology and ecology of mallophagan lice. She has been working in MNHW for 10 years, and in 1960, together with prof. JANISZEWSKA, moved to a newly established Department of General Parasitology, which she headed from 1972.

In 1956–2001 ZŁOTORZYCKA published 99 papers on Mallophaga. Among others, mainly taxonomic works, one can find important contributions to the fauna of Poland. She published a series of identification keys to the Mallophaga of Poland (ZŁOTORZYCKA 1972bc, 1976, 1977, 1978, 1980), a catalogue (ZŁOTORZYCKA & MODRZEJEWSKA 1988) and a monograph (ZŁOTORZYCKA 1994, 1997, ZŁOTORZYCKA & MODRZEJEWSKA 2001), all written in Polish and therefore little known worldwide. Her bibliography and further details of academic and scientific career can be found in LONC (1998), and complete biography in OKULEWICZ (2003).

The contributions of Jadwiga ZŁOTORZYCKA to phthirapteran study are substantial, but of varying quality. A considerable portion of her work was devoted to two closely related aspects: large-scale revisions of complicated groups of lice (particularly those on songbirds (ZŁOTORZYCKA 1964a–c, 1965) and shorebirds (ZŁOTORZYCKA 1967)), and research into the relationships between hosts as revealed by the distribution and relationships of lice. While some of her early papers (*e.g.*, ZŁOTORZYCKA 1968bc) show an earnest desire to untangle some of the more complicated matters in louse research, her study was hampered by lack of material, particularly from outside of Central Europe. This naturally limited the scope of her conclusions. In addition, her cooperation with Wolfdietrich EICHLER in East Germany meant that his sometimes rigid adherence to FAHRENHOLZ' rule (see KLASSEN (1982) for an introduction to this rule) influenced her taxonomic contributions. Following EICHLER, ZŁOTORZYCKA's species are typically described mainly on the basis of host relationships, and references to morphological characters are usually vague or hard to assess. Most of her descriptions are short and uninformative, often based on only a few individuals. This may become problematic as in small samples individual variation sometimes becomes dominant, while having little taxonomic value. As a result, the characters she used to differentiate her taxa are often vague and inadequate, her illustrations are typically schematic, and can seldom be used to identify species without reference to the type slides. Today, many of the species names she established are considered junior synonyms or, at least, the species are treated as impossible to differentiate based solely on original descriptions (PRICE *et al.* 2003, and see below). The well-preserved collection of ZŁOTORZYCKA is all the more valuable today and especially the numerous type specimens, recently organized, catalogued and made available for specialists, await proper examination.

The Phthiraptera collection of ZŁOTORZYCKA is preserved in MNHW. It comprises a large and still only preliminarily surveyed non-type specimen collection and a separate type specimen collection. The microscope slides of the type collection (Fig. 1), originally kept on cardboard trays (Fig. 2), have been transferred to plastic slide boxes and all specimens with respective label and bibliographic data are now included in the MNHW electronic databases. The type collection consists of 88 holotypes, one neotype and 628 paratypes (total 717 specimens) of 124 species and subspecies of Mallophaga (54 species of Amblycera and 70 Ischnocera). Most of the species were described by



1. Examples of microscope slides in the ZŁOTORZYCKA Collection of type specimens

ZŁOTORZYCKA or EICHLER & ZŁOTORZYCKA (Figs 3-12), but some specimens come from collections of LUCIŃSKA, MEY, CARRIKER JR., EICHLER, PRICE and EMERSON.

The type specimens listed in this catalogue were identified on the basis of the microscope slide label data and confirmed by comparing with slide numbers and additional data published in original descriptions. The species are listed in an alphabetical order (in each family), and the following data, when available, are given: the species name as it appears on the microscope slide, author of the name and the page on which it has been described; the status of type specimens (holotype, neotype, allotype, paratype) and their sex or developmental stage (male - [m], female - [f], larva - [l]); the microscope slide (MS) number as it appears on the slide; collecting locality/circumstances, including the host; the MNHW database number (MNHW No); the valid combination currently accepted for this species (if different from the name used in the slide label, following PRICE *et al.* (2003)); optionally additional remarks.

CHECKLIST OF THE TYPE SPECIMENS OF MALLOPHAGA IN THE ZŁOTORZYCKA COLLECTION

Suborder Amblycera

Family Gyropidae

Abrocomophaga chilensis EMERSON & PRICE, 1976: 426; 2 paratypes [mf]; Santiago, Chile; ex *Abrocoma benetti* WATERHOUSE; MNHW No 708.

Gliricola venezuelanus EMERSON & PRICE 1975: 18; 2 paratypes [mf]; Capibara, Venezuela; ex *Proechimys semispinosus* TOMES; MNHW No 755.

Family Laemobothriidae

Laemobothrion vulturis daneckii ZŁOTORZYCKA, 1969: 125; holotype MS No 28/xx/152 [m], 67 paratypes [mf]; Wrocław, Poland, leg. DANECKI; ex *Gypaetus barbatus* (L.); MNHW No 767; current status: *Laemobothrion vulturis* (FABRICIUS, 1775).

Family Menoponidae

Aegyiphilus contrastus EICHLER & ZŁOTORZYCKA, 1963a: 216; holotype MS No 29/F/26 [f], 1 paratype [f]; 20 km N Meiktila, Burma; ex *Pseudogyps bengalensis* (GM.) (museum skin specimen); MNHW No 709; current status: *Cuculiphilus (Aegyiphilus) gypsis* (EICHLER, 1944).

Aegyiphilus secundus EICHLER & ZŁOTORZYCKA, 1963a: 217; holotype MS No 29/H/10 [m]; Ndjiri, Africa, leg. SCHILLINGS; ex *Gyps rueppelli* (BREHM) (museum skin specimen); MNHW No 710; current status: *Cuculiphilus (Aegyiphilus) gypsis* (EICHLER, 1944).

Allocolpocephalum laniidorum ZŁOTORZYCKA, 1964a: 188; holotype MS No 15/d/4-4 [f], 2 paratypes [f]; Wrocław, Poland, leg. ZŁOTORZYCKA; ex *Lanius excubior* L.; MNHW No 712; current status: *Colpocephalum fregili* DENNY, 1842.

Amysrsidea obstinata ZŁOTORZYCKA, 1972a: 583; holotype MS No 32/e/23-1 [m], 42 paratypes [mf]; Wizna, Łomża, Poland, leg. NOSKIEWICZ (holotype, 15 paratypes), Bychawa, Poland, leg. DERYŁO (6 paratypes), Kraśnik, Poland, leg. DERYŁO (7 paratypes), Janów Lubelski, Poland, leg. DERYŁO (2 paratypes), Lubelskie Voivodship, Poland, leg. DERYŁO (12 paratypes); ex *Lyrurus tetrax* (L.); MNHW No 713; current status: *Amysrsidea lagopi* (GRUBE, 1851).

Austromenopon caspiae ZŁOTORZYCKA, 1968a: 311; holotype MS No 43/e/73 [m], 12 paratypes [mf]; Hodonin, Czech Republic, leg. BALÁT (holotype and 7 paratypes), Mikoszewo, Poland, leg. ZAJĄC (5 paratypes); ex *Hydropogne caspia* (PALL.); MNHW No 720; current status: *Austromenopon atrofulvum* (PIAGET, 1880).



2. An original tray with microscope slides in the ZŁOTORZYCKA Collection (all slides have been recently transferred to plastic boxes)

Austromenopon decorosum decorosum ZŁOTORZYCKA, 1968a: 323; holotype MS No 42/p/5 [m], 9 paratypes [mf]; Mikoszewo, Poland, leg. ZAJĄC; ex *Tringa totanus* (L.); MNHW No 721.

Austromenopon decorosum finitimum ZŁOTORZYCKA, 1968a: 325; holotype MS No 42/r/7-2 [f], 1 paratype [f]; Sominy, Poland, leg. ZŁOTORZYCKA; ex *Tringa erythropus* (PALL.); MNHW No 722; current status: *Austromenopon decorosum* ZŁOTORZYCKA, 1968.

Austromenopon erilis ZŁOTORZYCKA, 1968a: 325; holotype MS No 42/ab/61 [m], 2 paratypes [f]; Górki Wschodnie, Poland, leg. ZAJĄC; ex *Calidris maritima* (BRÜNN.); MNHW No 723; current status: *Austromenopon erilis* ZŁOTORZYCKA, 1968.

Austromenopon hystriculum ZŁOTORZYCKA, 1968a: 326; holotype MS No 42/w/45 [f]; Mikoszewo, Poland, leg. ZAJĄC; ex *Tringa hypoleucos* L.; MNHW No 724.

Austromenopon icterum (BURMEISTER, 1838: 440); neotype MS No 42/j/1-1 [m]; designated by ZŁOTORZYCKA, 1968a: 331; Kotowice, Poland, leg. ZŁOTORZYCKA; ex *Scolopax rusticola* (L.); MNHW No 725.

Austromenopon nigropleurum volucer ZŁOTORZYCKA, 1968a: 318; holotype MS No 50/F/1 [m]; Bear Island (Bjørnøya), Norway, leg. ZŁOTORZYCKA (museum skin specimen); ex *Uria troille* (L.); MNHW No 726; current status: *Austromenopon nigropleurum* (DENNY, 1842).

Austromenopon putum ZŁOTORZYCKA, 1968a: 312; holotype MS No 43/a/15 [f]; Sominy, Poland, leg. ZŁOTORZYCKA; ex *Chlidonias nigra* (L.); MNHW No 727; current status: *Austromenopon atrofulvum* (PIAGET, 1880).

Austromenopon sternophilum paucum ZŁOTORZYCKA, 1968a: 314; holotype MS No 43/g/12-1 [m], 28 paratypes [mf]; Sominy, Poland, leg. ZŁOTORZYCKA (holotype and 27 paratypes), Mikoszewo, Poland, leg. ZŁOTORZYCKA (1 paratype); ex *Sterna albifrons* PALL.; MNHW No 728; current status: *Austromenopon atrofulvum* (PIAGET, 1880).

Austromenopon sternophilum piageti ZŁOTORZYCKA, 1968a: 315; holotype MS No 43/f/8 [m], 7 paratypes [f]; Mikoszewo, Poland, leg. ZAJĄC (1 paratype), Mikoszewo, Poland, leg. ZŁOTORZYCKA (5 paratypes), Mikołajki, Poland, leg. DĄBROWSKI (holotype and 3 paratypes); ex *Sterna hirundo* L.; MNHW No 729; current status: *Austromenopon atrofulvum* (PIAGET, 1880).

Austromenopon transversum circular ZŁOTORZYCKA, 1968a: 306; holotype MS No 43/l/22 [f], 2 paratypes [f]; Górki Wschodnie, Poland, leg. ZAJĄC (holotype), Wrocław, Poland, leg. ZŁOTORZYCKA (1 paratype), Dąbie ad Szczecin, Poland, leg. NOSKIEWICZ (1 paratype); ex *Larus canus* L. MNHW No 730; current status: *Austromenopon transversum* (DENNY, 1842).

Austromenopon transversum comitor ZŁOTORZYCKA, 1968a: 306; holotype MS No 43/O/78 [f]; Pohorelice, Czech Republic, leg. BALÁT; ex *Larus marinus* L.; MNHW No 731; current status: *Austromenopon transversum* (DENNY, 1842).

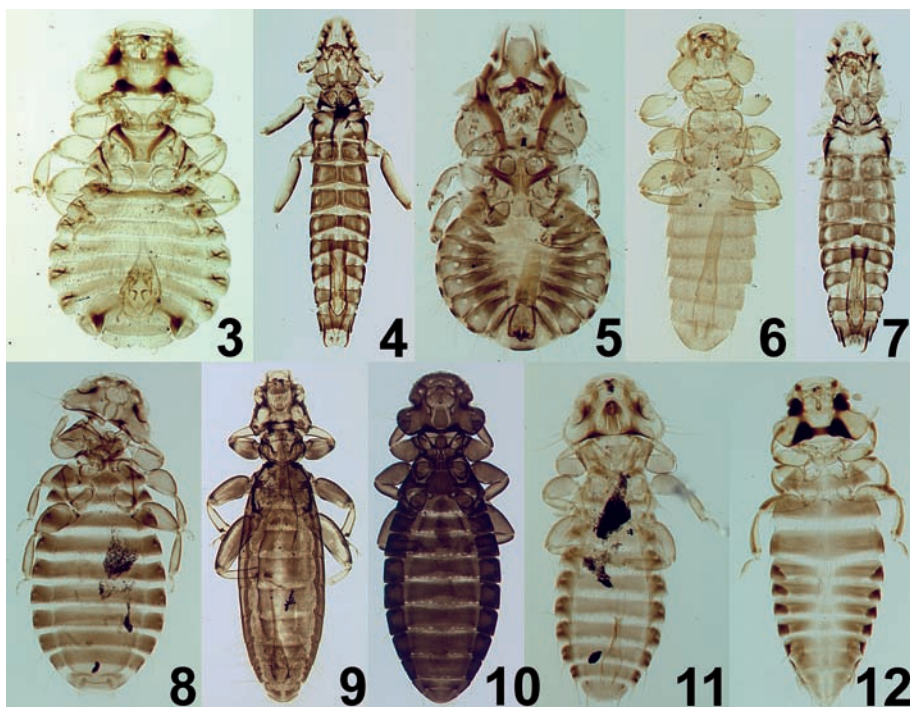
Austromenopon vanelli ZŁOTORZYCKA, 1968a: 320; holotype MS No 42/a/30 [m], 1 paratype [f]; Czech Republic, leg. BALÁT (holotype), Górki Wschodnie, Poland, leg. ZŁOTORZYCKA (paratype); ex *Vanellus vanellus* L.; MNHW No 732; current status: *Austromenopon aegialitidis* (DURRANT, 1906).

Cavifera abdita CLAY & PRICE, 1970: 337; paratype; Indonesia (New Guinea), Archbold Lake; ex *Otidiphaps nobilis* GOULD; MNHW No 1173.

Ctenigogus erinaceimorphus EICHLER & ZŁOTORZYCKA, 1963b: 40; holotype MS No 29/F/1 [m], allotype [f], 2 paratypes [fl]; Manila, Philippines; ex *Pseudogyps bengalensis* (GM.) (museum skin specimen); MNHW No 738.

Ctenigogus secundarius EICHLER & ZŁOTORZYCKA, 1963a: 203; holotype MS No 29/G/5 [f]; Dönje Erok, Tanzania, leg. SCHILLINGS; ex *Torgos tracheliotus tracheliotus* (FOSTER) (museum skin specimen); MNHW No 739.

Eichlerinopon celeripes ZŁOTORZYCKA, 1964a: 181; holotype MS No 1/c/40-33 [m], 3 paratypes [mf]; Wrocław, Poland, leg. ZŁOTORZYCKA; ex *Corvus frugilegus frugilegus* L.; MNHW No 747; current status: unidentifiable (see CLAY 1966).



3-12. Examples of type specimens in the ZŁOTORZYCKA Collection. *Aegyiphilus secundus* EICHLER & ZŁOTORZYCKA, holotype (= *Cuculiphilus (Aegyiphilus) gypsis* (EICHLER)) (3), *Falcolipeurus jaczewskii* ZŁOTORZYCKA, holotype (= *Falcolipeurus quadripustulatus* (BURMEISTER)) (4), *Craspedorrhynchus fraterculus* EICHLER & ZŁOTORZYCKA, holotype (5), *Ctenigogus erinaceimorphus* EICHLER & ZŁOTORZYCKA, holotype (6), *Falcolipeurus laboriosus* ZŁOTORZYCKA, holotype (= *Falcolipeurus lineatus* BEDFORD) (7), *Austromenopon putum* ZŁOTORZYCKA, holotype (= *Austromenopon atrofulvum* (PIAGET)) (8), *Laemobothrion vulturis daneckii* ZŁOTORZYCKA, holotype (= *Laemobothrion vulturis* (FABRICIUS)) (9), *Larithophilus negroidalis* ZŁOTORZYCKA, holotype (= *Actornithophilus piceus piceus* (DENNY)) (10), *Pseudomenopon zlotorzyciae* LUCIŃSKA, paratypes (= *Pseudomenopon pilosum* (SCOPOLI)) (11), *Vulturigogus femellus* EICHLER & ZŁOTORZYCKA, holotype (= *Colpocephalum turbinatum* DENNY) (12)

Gypsigogus novoannus EICHLER & ZŁOTORZYCKA, 1963a: 213; holotype MS No 29/D/19 [f], allotype [m]; “Rüttwasteppe”, East Africa; ex *Trigonoceps occipitalis* (BURCH.) (museum skin specimen); MNHW No 756; current status: *Colpocephalum subzebra* BEDFORD, 1939.

Hirundoecus clayae BALÁT, 1966: 20; allotype [m], 1 paratype [f]; Lednice, Czech Republic; ex *Riparia riparia* (L.); MNHW No 772; current status: *Machaerilaemus clayae* (BALÁT, 1966).

Lanicanthus aequalis ZŁOTORZYCKA, 1965: 57; holotype MS No 15/a/20, 15 paratypes [mfl]; Górki Wschodnie, Poland, leg. ZŁOTORZYCKA (holotype, 2 paratypes), Pasłęka, Poland, leg. BUSSE (13 paratypes); ex *Lanius collurio* L.; MNHW No 1165; current status: *Menacanthus camelinus* (NITZSCH in GIEBEL (1874)).

Lanimenopon abhorrens ZŁOTORZYCKA, 1964a: 177; holotype MS No 15/d/12-1 [m], 3 paratypes [f]; Wrocław, Poland, leg. ZŁOTORZYCKA; ex *Lanius excubitor excubitor* L.; MNHW No 768; current status: *Myrsidea abhorrens* (ZŁOTORZYCKA, 1964). Remarks: in the original description the holotype is mentioned under the specimen number MS No 15/d/2-1.

Larithophilus negroidalis ZŁOTORZYCKA, 1963a: 226; holotype MS No 43/f/47 [f], 1 paratype [l]; Mikoszewo, Poland, leg. ZŁOTORZYCKA; ex *Sterna hirundo hirundo* L.; MNHW No 769; current status: *Actornithophilus piceus piceus* (DENNY, 1842).

Larithophilus sperabilis ZŁOTORZYCKA, 1963a: 227; holotype MS No 43/g/14 [m]; Sominy, Poland; ex *Sterna albifrons* PALL.; MNHW No 770; current status: *Actornithophilus piceus piceus* (DENNY, 1842).

Liquidea proterva ZŁOTORZYCKA, 1964a: 174; holotype MS No 16/a/6 [f]; Żeli-strzewo, Poland, leg. GROMADZKI; ex *Muscicapa striata striata* (PALL.); MNHW No 771; current status: *Myrsidea proterva* (ZŁOTORZYCKA, 1964).

Menacanthus pius EICHLER & ZŁOTORZYCKA, 1963c: 369; holotype MS No 14/11-3 [f], 33 paratypes [fl]; Wrocław, Poland, leg. ZŁOTORZYCKA; ex *Turdus merula* L.; MNHW No 773; current status: *Menacanthus eurysternus* (BURMEISTER, 1838). Remarks: in the original description the holotype is mentioned under the specimen number MS No 14/e/11-1.

Menacanthus polonicus EICHLER & ZŁOTORZYCKA, 1963c: 371; 1 paratype [l]; Wrocław-Opatowice, Poland, leg. ZŁOTORZYCKA; ex *Turdus pilaris* L.; MNHW No 774; current status: *Menacanthus eurysternus* (BURMEISTER, 1838).

Menacanthus trivialis ZŁOTORZYCKA, 1973: 455; holotype [m] MS No 6/a/2, 2 paratypes [f]; Kuřim, Czech Republic, leg. BALÁT; ex *Anthus trivialis* (L.); MNHW No 775; current status: *Menacanthus pusillus* (NITZSCH, 1866).

Menacanthus verecundus ZŁOTORZYCKA, 1965: 54; holotype [f]; Hel, Poland, leg. Busse; ex *Sylvia atricapilla* (L.); MNHW No 1135; current status: *Menacanthus curuccae* (SCHRANK, 1776).

Menacanthus vitulanus EICHLER & ZŁOTORZYCKA, 1963c: 372; holotype MS No 8/a/2 [f]; Skowronki, Poland, leg. ZŁOTORZYCKA; ex *Sylvia borin* (BODD.); MNHW No 776; current status: *Menacanthus curuccae* (SCHRANK, 1776).

Menacanthus wipszyckii EICHLER & ZŁOTORZYCKA, 1963c: 373; holotype MS No 4/h/4 [f]; Wrocław, Poland, leg. ZŁOTORZYCKA; ex *Chloris chloris* L.; MNHW No 777; current status: *Menacanthus eurysternus* (BURMEISTER, 1838).

Menopon deryloi ZŁOTORZYCKA, 1972a: 580; holotype MS No 103-3 [m], 5 paratypes [mf]; Makoszka ad Parczew, Poland, leg. DERYŁO; ex *Lyrurus tetrax* (L.); MNHW No 778.

Myrsidea clayae birmensis KLOCKENHOFF, 1969: 397; paratypes [f] 3; Songkhla Muang, Thailand; ex *Corvus macrorhynchos levaillantii* LESSON; MNHW No 780; current status: *Myrsidea birmensis* KLOCKENHOFF, 1969.

Neocolpocephalum gypsi EICHLER & ZŁOTORZYCKA, 1971: 26; 1 paratype [f]; Czechoslovakia, leg. BALÁT; ex *Gyps fulvus* (HABL.); MNHW No 781; current status: *Colpocephalum gypsi* (EICHLER & ZŁOTORZYCKA, 1971).

Neocolpocephalum polonum EICHLER & ZŁOTORZYCKA, 1971: 26; holotype MS No 782 [f]; Ruda Sułowska, Poland, leg. ZŁOTORZYCKA; ex *Accipiter gentilis* (L.); MNHW No 782; current status: *Colpocephalum polonum* (EICHLER & ZŁOTORZYCKA, 1971).

Neomyrsidella usitata ZŁOTORZYCKA, 1964a: 184; 12 paratypes [mf]; Wrocław, Poland, leg. ZŁOTORZYCKA; ex *Corvus monedula* (L.); MNHW No 785; current status: *Myrsidea anathorax* (NITZSCH, 1866).

Pseudomenopon janiszewskae LUCIŃSKA, 1969: 365; holotype MS No 48/d/4 [f], 1 paratype [f]; Potasznia, Milicz, Poland, leg. JURCZYK; ex *Podiceps auritus* (L.); MNHW No 795; current status: *Pseudomenopon dolium* (RUDOW, 1869).

Pseudomenopon stuchlyi LUCIŃSKA, 1969: 364; holotype MS No 48/b/7 [m], 1 paratype [m]; Radziądz, Poland, leg. ZŁOTORZYCKA; ex *Podiceps griseigena* (BODD.); MNHW No 796; current status: *Pseudomenopon dolium* (RUDOW, 1869).

Pseudomenopon zlotorzycskae LUCIŃSKA, 1969: 359; 5 paratypes [mf]; Wrocław-Opatowice, Poland, leg. ZŁOTORZYCKA (2 paratypes), Radziądz, Poland, leg. ZŁOTORZYCKA (2 paratypes), Lednice, Czech Republic, leg. BALÁT (1 paratype); ex *Gallinula chloropus* (L.); MNHW No 797; current status: *Pseudomenopon pilosum* (SCOPOLI, 1763).

Uchida phasiani MODRZEJEWSKA & ZŁOTORZYCKA, 1977: 340; 2 paratypes [mf]; Oława ad Wrocław, Poland, leg. MODRZEJEWSKA; ex *Phasianus colchicus* L.; MNHW No 806; current status: *Menacanthus phasiani* (MODRZEJEWSKA & ZŁOTORZYCKA, 1977).

Vulturigogus eugenii EICHLER & ZŁOTORZYCKA, 1963a: 207; holotype MS No 29/F/10 [m], allotype [f], Manila, Philippines (holotype), 20 km N Meiktila, Myanmar (allotype); ex *Pseudogyps bengalensis* (GM.) (museum skin specimens); MNHW No 807; current status: *Colpocephalum turbinatum* DENNY, 1842.

Vulturigogus femellus EICHLER & ZŁOTORZYCKA, 1963a: 209; holotype MS No 29/H/18 [f]; Ethiopia; ex *Gyps rueppelli rueppelli* (BREHM) (museum skin specimen); MNHW No 808; current status: *Colpocephalum turbinatum* DENNY, 1842.

Family Ricinidae

Ricinus fringillae aureolae MEY, 1982: 163; 1 paratype [f]; Tereldsh, Mongolia, leg. E. MEY; ex *Emberiza aureola* (PALL.); MNHW No 1147; current status: *Ricinus fringillae* DE GEER, 1778.

Ricinus fringillae flavirostris MEY, 1982: 164; 2 paratypes [mf]; 10 km W. Mjangad, Aimak Chovd, Mongolia, leg. STUBBE (1 paratype), Jolyn am Gobi-Altai Mongolia, leg. E. MEY (1 paratype); ex *Carduelis flavirostris altaica* (SUSH.); MNHW No 1148; current status: *Ricinus fringillae* DE GEER, 1778.

Ricinus japonicus rheinwaldi MEY, 1982: 166; 1 paratype [f]; Jolyn, Gobi-Altai, Mongolia, leg. E. MEY; ex *Anthus spinoletta coutelii* AUD.; MNHW No 1149; current status: *Ricinus fringillae* DE GEER, 1778.

Ricinus piechockii MEY, 1984: 243; 1 paratype [f]; La Mayagna-Guanahacabibes, Cuba; ex *Melopyrrha nigra* (L.); MNHW No 1150.

Ricinus uragi MEY, 1982: 165; 1 paratype [f]; Tereldsh, Mongolia, leg. E. MEY; ex *Uragus sibiricus* (PALL.); MNHW No 1151.

Trochiloecetes naevius ONIKI & EMERSON 1982; 85, 1 paratype [f]; Seta Barras, Brazil; ex *Ramphodon naevius*; MNHW No 803.

Suborder Ischnocera

Family Philopteridae

Allobrueelia abluda ZŁOTORZYCKA, 1964b: 265; holotype MS No 14/a/22 [f], 1 paratype [l]; Hel, Poland, leg. BUSSE; ex *Turdus philomelos* BREHM; MNHW No 711; current status: *Brueelia turdinulae* ANSARI, 1956.

Anatoecus dentatus castaneus ZŁOTORZYCKA, 1970: 24; holotype MS No 44/o/18, 12 paratypes [mf]; Krośnice, Poland, leg. ZŁOTORZYCKA (holotype, 4 paratypes), Wrocław, Poland, leg. ZŁOTORZYCKA (8 paratypes); ex *Anas querquedula* L.; MNHW No 1157; current status: *Anatoecus dentatus* (SCOPOLI, 1763).

Anatoecus dentatus cognatus ZŁOTORZYCKA, 1970: 17; holotype MS No 44/l/d/6 [f], 1 paratype [f]; Świdnica, Poland; ex *Anas platyrhynchos domestica* L. (museum skin specimen); MNHW No 714; current status: *Anatoecus dentatus* (SCOPOLI, 1763).

Anatoecus dentatus complicatus ZŁOTORZYCKA, 1970: 21; holotype MS No 44/n/10 [f], 2 paratypes [mf]; Józefów ad Warszawa, leg. ŚWIRSKI (holotype, 1 paratype), Nysa, Poland (1 paratype) (museum skin specimens); ex *Anas penelope* L.; MNHW No 1155; current status: *Anatoecus dentatus* (SCOPOLI, 1763).

Anatoecus dentatus gratus ZŁOTORZYCKA, 1970: 35; holotype MS No 44/u/2 [f], 1 paratype [f]; Kukle, Poland, leg. ZŁOTORZYCKA (holotype), Górki Wschodnie, Poland, leg. ZAJĄC (paratype); ex *Bucephala clangula* (L.); MNHW No 1161; current status: *Anatoecus dentatus* (SCOPOLI, 1763).

Anatoecus dentatus longicephalus ZŁOTORZYCKA, 1970: 19; holotype MS No 44/m/9, 1 paratype [f]; Przemków, Poland; ex *Anas strepera* L. (museum skin specimen); MNHW No 1153; current status: *Anatoecus dentatus* (SCOPOLI, 1763).

Anatoecus dentatus magnicornutus ZŁOTORZYCKA, 1970: 52; holotype MS No 44/a/1, 19 paratypes [mf]; Kolczewo, Poland, leg. WOLK; ex *Cygnus olor* (GM.); MNHW No 715; current status: *Anatoecus dentatus* (SCOPOLI, 1763).

Anatoecus dentatus prehensus ZŁOTORZYCKA, 1970: 27; holotype MS No 44/ó/5 [m], 2 paratypes [mf]; Zawiercie, Poland, leg. DĄBROWSKI; ex *Anas cracca* L.; MNHW No 1158; current status: *Anatoecus dentatus* (SCOPOLI, 1763).

Anatoecus icterodes discludus ZŁOTORZYCKA, 1970: 15; 6 paratypes [f]; Świdnica, Poland; ex *Anas platyrhynchos domestica* L. (museum skin specimen); MNHW No 716; current status: *Anatoecus icterodes* (NITZSCH, 1818).

Anatoecus icterodes dissensus ZŁOTORZYCKA, 1970: 33; holotype MS No 44/u/9 [m], 9 paratypes [mf]; Górki Wschodnie, Poland, leg. ZAJĄC (holotype), Kukle, Poland, leg. Złotorzycka (paratypes); ex *Bucephala clangula* (L.); MNHW No 1160; current status: *Anatoecus icterodes* (NITZSCH, 1818).

Anatoecus icterodes eichleri ZŁOTORZYCKA, 1970: 25; holotype MS No 44/6/10 [m], 28 paratypes [mf]; Zawiercie, Poland, leg. Dąbrowski, Wrocław-Opatowice, Poland, leg. ZŁOTORZYCKA; ex *Anas crecca* L.; MNHW No 717; current status: *Anatoecus icterodes* (NITZSCH, 1818).

Anatoecus icterodes islandicus ZŁOTORZYCKA, 1970: 35; holotype MS No 44/Ua/2 [m], 1 paratype [m]; North Iceland; ex *Bucephala islandica* GM. (museum skin specimen); MNHW No 718; current status: *Anatoecus icterodes* (NITZSCH, 1818).

Anatoecus icterodes oloris ZŁOTORZYCKA, 1970: 50; holotype MS No 44/a/26 [m], 39 paratypes [mf]; Kołczewo, Poland, leg. WOLK; ex *Cygnus olor* (GM.); MNHW No 719; current status: *Anatoecus icterodes* (NITZSCH, 1818).

Anatoecus icterodes parvus ZŁOTORZYCKA, 1970: 22; holotype MS No 44/o/10, 16 paratypes [mf]; Wrocław, Poland, leg. ZŁOTORZYCKA; ex *Anas querquedula* L.; MNHW No 1156; current status: *Anatoecus icterodes* (NITZSCH, 1818).

Anatoecus icterodes pustulosus ZŁOTORZYCKA, 1970: 29; holotype MS No 44/t/1 [m]; Lednice, Czech Republic, leg. BALÁT; ex *Netta rufina* (PALL.); MNHW No 1159; current status: *Anatoecus icterodes* (NITZSCH, 1818).

Anatoecus icterodes simplicatus ZŁOTORZYCKA, 1970: 20; holotype MS No 44/n/18 [m], 2 paratypes [f]; Nysa, Poland (museum skin specimen) (holotype), Józefów ad Warszawa, Poland, leg. ŚWIRSKI (paratypes); ex *Anas penelope* L.; MNHW No 1154; current status: *Anatoecus icterodes* (NITZSCH, 1818).

Anatoecus icterodes solivagus ZŁOTORZYCKA, 1970: 18; holotype MS No 44/m/2 [f]; Sominy, Poland, leg. ZŁOTORZYCKA; ex *Anas strepera* L.; MNHW No 1152; current status: *Anatoecus icterodes* (NITZSCH, 1818).

Anatoecus icterodes tadornae ZŁOTORZYCKA, 1970: 48; 2 paratypes [f]; Rogów ad Grodków, Poland; ex *Tadorna tadorna* (L.) (museum skin specimen); MNHW No 1163; current status: *Anatoecus icterodes* (NITZSCH, 1818).

Anatoecus icterodes tergalis ZŁOTORZYCKA, 1970: 44; holotype MS No 44/e/1-1 [m], 11 paratypes [mf]; Lublin ad, Poland, leg. WIPSYCKI (holotype, 9 paratypes), Jurský Šúr, Czech Republic, leg. BALÁT; ex *Anser fabalis* (LATH.); MNHW No 1162; current status: *Anatoecus icterodes* (NITZSCH, 1818).

Brueelia glizi BALÁT 1955; 509; 2 paratypes [mf]; Hodonin, Czech Republic, leg. BALÁT; ex *Fringilla montifringilla* L.; MNHW No 734; current status: *Brueelia glizi* BALÁT, 1955.

Corvonirmus perforatus ZŁOTORZYCKA, 1964b: 244; holotype MS No 1/c/26-1 [m], 8 paratypes [mfl]; Wrocław-Opatowice, Poland, leg. ZŁOTORZYCKA; ex *Corvus frugilegus frugilegus* L.; MNHW No 735; current status: *Brueelia perforata* (ZŁOTORZYCKA, 1964).

Cotingacola rupicolae colombiana CARRIKER Jr., 1956: 369; 1 paratype [m]; Moscopan, Cauca, Colombia; ex *Rupicola peruvianus aecuatorialis*; MNHW No 736; current status: *Cotingacola rupicolae* (CARRIKER Jr., 1956).

Craspedorrhynchus fraterculus EICHLER & ZŁOTORZYCKA 1975: 155; holotype MS No 28/b/3 [m], allotype [f]; Lednice, Czech Republic, leg. BALÁT; ex *Aquila heliaca*; MNHW No 737.

Docophorulus capillatus ZŁOTORZYCKA, 1964c: 408; holotype MS No 16/b/4 [m], 2 paratypes [mf]; Skowronki, Poland (holotype, 1 paratype) leg. ZŁOTORZYCKA, Hel, Poland (1 paratype) leg. BUSSE; ex *Muscicapa hypoleuca hypoleuca* (PALL.); MNHW No 740; current status: *Philopterus capillatus* (ZŁOTORZYCKA, 1964).

Docophorulus cumulatus ZŁOTORZYCKA, 1964c: 410; holotype MS No 4/y/2-1 [m], 43 paratypes [mf]; Jordanów, Poland, leg. ZŁOTORZYCKA (holotype, 24 paratypes), Wrocław, Poland, leg. ZŁOTORZYCKA (19 paratypes); ex *Emberiza calandra calandra* L.; MNHW No 741; current status: *Philopterus cumulatus* (ZŁOTORZYCKA, 1964).

Docophorulus desertus ZŁOTORZYCKA, 1964c: 412; holotype MS No 16/a/3 [f], 2 paratypes [f,l]; Skowronki, Poland (holotype, 1 paratype), leg. ZŁOTORZYCKA, Zawiercie, Poland (1 paratype), leg. DĄBROWSKI; ex *Muscicapa striata striata* (PALL.); MNHW No 742; current status: *Philopterus desertus* (ZŁOTORZYCKA, 1964).

Docophorulus fortunatus ZŁOTORZYCKA, 1964c: 413; holotype MS No 4/p/6-2 [m], 18 paratypes [f]; Kiełpino, Poland (holotype, 6 paratypes), Wrocław-Opatowice, Poland, leg. ZŁOTORZYCKA (12 paratypes); ex *Fringilla coelebs coelebs* L.; MNHW No 743; current status: *Philopterus fortunatus* (ZŁOTORZYCKA, 1964).

Docophorulus rapax ZŁOTORZYCKA, 1964c: 421; holotype MS No 4/q/1 [m], 3 paratypes [mf]; Hel, Poland, leg. BUSSE; ex *Fringilla montifringilla* L.; MNHW No 744; current status: *Philopterus rapax* (ZŁOTORZYCKA, 1964).

Docophorulus residuus ZŁOTORZYCKA, 1964c: 422; holotype MS No 4/z/1 [f], 1 paratype [l]; Nowa Pasłęka, Braniewo, Poland, leg. BUSSE; ex *Emberiza schoeniclus schoeniclus* (L.); MNHW No 745; current status: *Philopterus residuus* (ZŁOTORZYCKA, 1964).

Docophorulus vernus ZŁOTORZYCKA, 1964c: 424; holotype MS No 14/c/4, 24 paratypes [mf]; Wrocław-Opatowice, Poland, leg. ZŁOTORZYCKA; ex *Turdus viscivorus viscivorus* L.; MNHW No 746; current status: *Philopterus vernus* (ZŁOTORZYCKA, 1964).

Eustrigiphilus speotyto EICHLER, 1954; holotype MS No 3907b [m], allotype [f]; La Cumbre, Peru; ex *Speotyto cunicularia juninensis* BERL. & STOLZ.; MNHW No 748; current status: *Strigiphilus desertae* CARRIKER Jr., 1966.

Falcolipeurus jaczewskii ZŁOTORZYCKA, 1963c: 154; holotype MS No 29/G/1 [m], 1 paratype [l]; “Damara”, leg. LÜBERT (holotype), Dönje Erok, Tanzania (paratype); ex *Torgos tracheliotus tracheliotus* (FORST) (museum skin specimen); MNHW No 749; current status: *Falcolipeurus quadripustulatus* (BURMEISTER, 1838).

Falcolipeurus janiszewskae ZŁOTORZYCKA, 1963c: 156; holotype MS No 29/D/1 [m], allotype [f], 11 paratypes [mfl]; “Scetel”, Africa (holotype, allotype, 6 paratypes); “Rüttwasteppe”, Africa (3 paratypes), Dire-Daua, Ethiopia (2 paratypes); ex *Trigonoceps occipitalis* (BURCH.) (museum skin specimens); MNHW No 750; current status: *Falcolipeurus suturalis* (RUDOW, 1869).

Falcolipeurus laboriosus ZŁOTORZYCKA, 1963c: 158; holotype MS No 29/H/1 [m], 12 paratypes [mfl]; “Ndjiri”, Africa (holotype, 7 paratypes), Jama, Ethiopia (2 paratypes), Danao, Ethiopia (3 paratypes); ex *Gyps rueppelli rueppelli* (BREHM) (museum skin specimens); MNHW No 751; current status: *Falcolipeurus lineatus* BEDFORD, 1931.

Falcolipeurus longiphallus ZŁOTORZYCKA, 1963c: 159; holotype MS No 29/F/14 [m], allotype [f], 10 paratypes [mfl]; 20 km North Meiktila, Myanmar (holotype, allotype, 7 paratypes), Manila, Philippines (2 paratypes), Nuddeah, ?Bengal (1 paratype); ex *Pseudogyps bengalensis* (GM.) (museum skin specimens); MNHW No 752.

Furnaricola acutifrons subsimilis CARRIKER Jr., 1944a: 87; 2 paratypes [mf]; Fundacion Magdalena, Colombia, leg. CARRIKER Jr.; ex *Certhiaxis cinnamomeus* (GM.); MNHW No 753; current status: *Rallicola acutifrons* (CARRIKER Jr, 1944).

Hypocrypturellus coniceps boucardi CARRIKER Jr., 1944b: 226; 4 paratypes [mf]; Cerro Tuxtla, Mexico, leg. CARRIKER; ex *Crypturellus boucardi boucardi* SCLATER; MNHW No 757; current status: *Kelloggia boucardi* (Carriker Jr., 1944).

Kelloggia brevipes mexicanus CARRIKER Jr., 1944b: 218; 4 paratypes [mf]; Tres Zapotes, Veracruz, Mexico, leg. CARRIKER; ex *Tinamus major percautus* VAN TYNE; MNHW No 758; current status: *Kelloggia mexicanus* CARRIKER, Jr., 1944.

Koeniginirmus caspius certus ZŁOTORZYCKA, 1967: 757; holotype MS No 43/n/91 [m]; Mikoszewo, Poland, leg. ZAJĄC; ex *Larus fuscus* L.; MNHW No 759; current status: *Quadriceps caspius* (GIEBEL, 1874).

Koeniginirmus ornatus alius ZŁOTORZYCKA, 1967: 763; holotype MS No 43/m/12 [m], 4 paratypes [mf]; Międzyzdroje, Poland, leg. WOLK; ex *Larus argentatus* PONT. MNHW No 760; current status: *Quadriceps orantus striolatus* (NITZSCH in GIEBEL (1866)).

Koeniginirmus ornatus benignus ZŁOTORZYCKA, 1967: 764; holotype MS No 43/o/76 [m], 3 paratypes [f]; Pohofelice, Czech Republic, leg. BALÁT (holotype, 1 paratypes), Mikoszewo, Poland, leg. ZAJĄC (2 paratypes); ex *Larus marinus* PALL.; MNHW No 761; current status: *Quadriceps orantus striolatus* (NITZSCH in GIEBEL (1866)).

Koeniginirmus punctatus ancillaris ZŁOTORZYCKA, 1967: 751; holotype MS No 43/l/10-1 [m], 1 paratype [f]; Krynica Morska, Poland, leg. DĄBROWSKI; ex *Larus canus* L.; MNHW No 762; current status: *Quadriceps punctatus regressus* TIMMERMANN, 1952.

Koeniginirmus punctatus auctosus ZŁOTORZYCKA, 1967: 751; holotype MS No 43/n/92 [m], 2 paratypes [f]; Mikoszewo, Poland, leg. ZAJĄC; ex *Larus fuscus* L.; MNHW No 763; current status: *Quadriceps punctatus regressus* TIMMERMANN, 1952).

Koeniginirmus punctatus balticus ZŁOTORZYCKA, 1967: 752; holotype MS No 43/e/91 [m], 1 paratype [m]; Mikoszewo, Poland, leg. ZAJĄC; ex *Hydropogone caspia* (PALL.); MNHW No 764; current status: *Quadriceps punctatus regressus* TIMMERMANN, 1952).

Koeniginirmus punctatus ceterus ZŁOTORZYCKA, 1967: 752; holotype MS No 43/i/34 [m], 1 paratype [f]; Mikoszewo, Poland, leg. ZAJĄC; ex *Sterna sandvicensis* (LATH.); MNHW No 765; current status: *Quadriceps punctatus regressus* TIMMERMANN, 1952).

Koeniginirmus punctatus flabilis ZŁOTORZYCKA, 1967: 753; holotype MS No 43/g/17 [m]; Mikoszewo, Poland, leg. ZAJĄC; ex *Sterna albifrons* PALL.; MNHW No 766; current status: *Quadriceps punctatus regressus* TIMMERMANN, 1952).

Mjoberginirmus musealis ZŁOTORZYCKA, 1967: 745; holotype MS No 50/F/2 [m]; Zipnarolok, Kola, Russia; ex *Uria troille* L. (museum skin specimen); MNHW No 779; current status: *Quadriceps obliquus* (MJÖBERG, 1910).

Neodocophorus hopkinsi EICHLER, 1949: 14; 13 paratypes [mf]; from *Bubo bubo* L.; MNHW No 783; current status: *Strigiphilus strigis* (PONTOPPIDAN, 1763). Remarks: locality missing on the specimen label and in the original description.

Neodocophorus uralensis EICHLER, 1949: 15; allotype MS No 290 [m]; Tartumaa, Estonia, leg. VOORE; ex *Strix uralensis litturata* TENGM.; MNHW No 784; current status: *Strigiphilus heterocerus* (GRUBE, 1851).

Panurinirmus visendus ZŁOTORZYCKA, 1964b: 270; holotype MS No 9/c/1 [f]; Górki Wschodnie, Poland, leg. ZAJĄC; ex *Panurus biarmicus* (L.); MNHW No 786; current status: *Penenirmus visendus* (ZŁOTORZYCKA, 1964).

Penenirmus accuratus ZŁOTORZYCKA, 1964b: 271; holotype MS No 26/H/3 [f]; Goszczowice (= Guschwitz) ad Niemodlin (= Falkenberg), Poland; ex *Dryocopus martius martius* (L.) (museum skin specimen, leg. ZŁOTORZYCKA); MNHW No 787; current status: *Penenirmus heteroscelis* (NITZSCH, 1866).

Penenirmus silesiacus ZŁOTORZYCKA, 1964b: 273; holotype MS No 26/e/1 [f], 1 paratype [l]; Ruda Sułowska, Milicz, Poland, leg. ZŁOTORZYCKA; ex *Dryobates medius* (L.); MNHW No 788; current status: *Penenirmus auritus* (SCOPOLI, 1763).

Picicola contiguus ZŁOTORZYCKA, 1965: 67; holotype MS No 26/a/10-1 [m], allotype [f], 3 paratypes [f]; Wrocław-Opatowice, Poland, leg. ZŁOTORZYCKA; ex *Picus viridis viridis* L.; MNHW No 789; current status: *Picicola candidus* (NITZSCH, 1866).

Pleurinirmus affectator ZŁOTORZYCKA, 1976a: 210; holotype MS No 8/a/10 [f], 3 paratypes [f]; Mierzeja Wiślana, Poland, leg. BUSSE; ex *Sylvia borin borin* (BODD.); MNHW No 790; current status: *Penenirmus affectator* (ZŁOTORZYCKA, 1976).

Pleurinirmus phylloscopi ZŁOTORZYCKA, 1976a: 210; holotype MS No 8/n/3 [m], 4 paratypes [mf]; Mierzeja Wiślana, Poland, leg. BUSSE (holotype, 2 paratypes), Finland (2 paratypes); ex *Phylloscopus trochilus trochilus* (L.) (Poland) and *Phylloscopus trochilus acredula* (L.) (Finland); MNHW No 791; current status: *Penenirmus phylloscopi* (ZŁOTORZYCKA, 1976).

Pleurinirmus rarus ZŁOTORZYCKA, 1976a: 212; holotype MS No 8/n/9 [m], 2 paratypes [f]; Wyskok, Kętrzyn, Poland, leg. ZŁOTORZYCKA (holotype), Mierzeja Wiślana, Poland, leg. BUSSE (paratypes); ex *Phylloscopus collybita collybita* (VIEILL.); MNHW No 792; current status: *Penenirmus rarus* (ZŁOTORZYCKA, 1976).

Prunellides annae ZŁOTORZYCKA & EICHLER, 1984: 221; holotype MS No 7/a/71 [m], 1 paratype [f]; Piotrówka- Kępno, Poland, leg. OKULEWICZ; ex *Prunella modularis modularis* (L.); MNHW No 793; current status: *Phlopterus modularis* (DENNY, 1842).

Pseudocophorus antennatus CARRIKER Jr., 1940: 282; 1 paratype [m]; La Cuchilla, Venezuela; ex *Pipreola arcuata* (LAFRESNAYE); MNHW No 794.

Pseudolipeurus subsimilis soui CARRIKER Jr., 1953: 219; 1 paratype [m]; Simiti, Colombia; ex *Crypturellus soui cauae* (CHAP.); MNHW No 1134; current status: *Pseudolipeurus dubius* GUIMARÃES, 1942.

Quadriceps retractus ZŁOTORZYCKA, 1967: 722; holotype MS No 42/er/1 [m], 1 paratype [f]; Atanasov Lake, Bulgaria, leg. BALÁT; ex *Charadrius alexandrinus* L.; MNHW No 1164; current status: *Quadriceps macrocephalus* (WATERSTON, 1914).

Rostrinirmus refractariolus ZŁOTORZYCKA, 1964b: 277; 1 paratype [f]; Wrocław, Poland, leg. ZŁOTORZYCKA; ex *Passer domesticus domesticus* (L.); MNHW No 798; current status: *Sturnidoecus refractariolus* (ZŁOTORZYCKA, 1964).

Strigiphilus glaucidii ZŁOTORZYCKA, 1974: 337; holotype MS No TBr 413a [m], 3 paratypes [f]; Vesanto, Finland, leg. ALAJA; ex *Glaucidium passerinum passerinum* (L.); MNHW No 799; current status: *Strigiphilus splendens* (GIEBEL, 1874).

Strigiphilus portigi EICHLER, 1952: 154; holotype MS No 3609 c [m], allotype [f]; Erlangen, Germany, leg. STAMMER; ex *Strix aluco aluco* L.; MNHW No 800.

Sturnidoecus blandus ZŁOTORZYCKA, 1964b: 278; holotype MS No 4/o/1 [f]; Górki Wschodnie, Poland, leg. ZŁOTORZYCKA; ex *Carduelis carduelis carduelis* (L.); MNHW No 801.

Syrrhaptoecus bedfordi WATERSTON, 1928: 342; 1 paratype [f]; North Asia; ex *Syrrhaptes paradoxus* (PALLAS); MNHW No 802.

Trollipeurus eichleri ZŁOTORZYCKA, 1963b: 2; 1 paratype [m]; Paraguay; ex *Coragyps atratus foetens* (LICHT.) (museum skin specimen); MNHW No 804; current status: *Falcolipeurus marginalis* (OSBORN, 1902).

Trollipeurus kleinmachnowensis ZŁOTORZYCKA, 1963b: 4; 2 paratypes [mf]; ex *Vultur gryphus* L. (museum skin specimen); MNHW No 805; current status: *Falcolipeurus assessor* (GIEBEL, 1874).

Family Trichodectidae

Bovicola orientalis EMERSON & PRICE, 1982: 186; 2 paratypes [mf]; Puli, Taiwan; ex *Capricornis crispus swinhoi* GRAY; MNHW No 733; current status: *Damalinia orientalis* (EMERSON & PRICE, 1982).

Geomydoecus panamensis PRICE & EMERSON, 1971: 251; 2 paratypes [mf]; Cerro Punta, Chiriqui, Panama; ex *Macrogeomys cavator* BANGS.; MNHW No 754.

Suricatoecus fennecus EMERSON & PRICE, 1981: 673; 1 paratype [f]; Faiyum, Egypt; ex *Fennecus zerda* (ZIMM.); MNHW No 1133; current status: *Felicola (Suricatoecus) fennecus* (EMERSON & PRICE, 1981).

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