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## An annotated list of the orthopteroid insects described by Kurt Harz, with an account of the type specimens held in the Muséum d'histoire naturelle de Genève

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**Abstract:** Kurt Harz described 98 species or subspecies of orthopteroid insects. The names are listed, their current combination and the location of the types are given. Where the primary type specimens are in Harz's collection, now in the Muséum d'histoire naturelle de Genève (MHNG), the sex, verbatim label data and condition of the specimens is given, along with their location within the collection.

**Keywords:** Blattodea - Dermaptera - Mantodea - Orthoptera - type-catalogue.

### INTRODUCTION

Kurt Harz (1915-1996) was a German entomologist who, despite being wheelchair-bound and self-taught, became one of the most important authorities on the European Orthoptera. His early work was on the Lepidoptera, and he was head of the German Research Centre for Migratory Lepidoptera for twenty years. His interest in the orthopteroid insects led to the monumental three volume "Die Orthopteren Europas" (Harz, 1969b, 1975c; Harz & Kaltenbach 1976). In 1975 he started the periodical "Articulata" (which became the journal of the Deutsche Gesellschaft für Orthopterologie in 1988) to which he contributed many articles.

The very proliferation of Harz's publications has caused some problems for the compilers of taxonomic catalogues. Detzel (1996) lists the publications of Harz, while Heller (1998, 1999) lists the taxa described by Harz, and clears up a few nomenclatural problems. Heller omits the mantid *Kinzlebachia ragnari* Harz, 1988d [a junior synonym of *Rivetina caucasica caucasica* (Saussure, 1871)]. He also ignored two publications (Harz, 1991, 1992), presumably because of doubts about their validity under the code (see Ingrisch & Willemse, 2004). These are included here because some of the names have been cited in the subsequent literature (e.g. Ünal, 2011).

Harz was somewhat lax in his descriptions, which were often cursory, and sometimes omitted to designate holotypes. He sometimes labelled specimens as paratypes when they were not mentioned in the original description, or had even been collected after its publication. Harz was particularly careless in designating neotypes since he generally designated a pair of specimens (not always

from the same locality) which were sometimes not from anywhere near the type locality. Although some of his neotype designations have been accepted, others have not (Marshall, 1983) and a discussion of Harz's neotypes is deferred pending further research.

The Muséum d'histoire naturelle de Genève, Switzerland (MHNG), acquired Harz's personal collection in 1975 and 1976, and also received most of the specimens that he studied after this date, although not always straight away. The Harz collection of Orthoptera is maintained as a separate collection in the MHNG because its size makes integration into the general collection impractical. His Blattodea, Dermaptera and Mantodea, however, have been integrated into the general collection. Since Heller (1998, 1999) does not indicate the whereabouts of the type specimens, an inventory of Harz's species including comments on the condition of the type specimens in the MHNG is desirable.

### ARRANGEMENT AND FORMAT

The species are listed alphabetically. The format for each is:

*specific epithet* Author, publication: page [*Original generic placement*].

Provenance as given in the original description. Type series.

Specimen: "Label data" [format of label]. Following the recommendations of Ohl & Oswald (2004) the condition of each primary type specimen is noted. Other comments. Location of material in the MHNG main Orthoptera collection.

Currently valid combination. Nomenclature follows Beccaloni (2014) for the Blattodea, de Jong (2014) for the Dermaptera, Eades *et al.* (2014) for the Orthoptera and Otte *et al.* (2014) for the Mantodea.

The following abbreviations are used in the list:

BMNH The Natural History Museum, London

MHNG Muséum d'histoire naturelle de Genève

MNMS Museo Nacional de Ciencias Naturales, Madrid

NHMW Naturhistorisches Museum Wien

OSF Orthoptera Species Files (Eades *et al.*, 2014)

RMNH Naturalis Biodiversity Center, Leiden

SMFD Forschungsinstitut und Naturmuseum Senckenberg, Frankfurt

SMNK Staatliches Museum für Naturkunde, Karlsruhe

SMNS Staatliches Museum für Naturkunde, Stuttgart

SMTD Staatliches Museum für Tierkunde, Dresden

ZFMK Zoologisches Forschungsinstitut und Museum "Alexander Koenig", Bonn

ZMAS Zoological Museum, Russian Academy of Sciences, St. Petersburg

ZMHB Museum für Naturkunde, Berlin

ZSMC Zoologische Staatssammlung München

## CATALOGUE

### Blattodea

**agenjoi** Harz, 1971c: 343-344 [*Phyllodromica*].

Spanien, Barea. ♂ Holotype.

No specimens found in the MHNG. According to the original description the holotype was deposited in the MNMS.

*Phyllodromica agenjoi* Harz, 1971

**beybienkoi** Harz, 1985b: 189 [*Tartaroblatta*].

Dschauli. ♀ Holotype and 1 ootheca.

No specimens found in the MHNG. According to the original description the type material was deposited in the ZMAS.

*Tartaroblatta beybienkoi* Harz, 1985

**chladeki** Harz in Chládek & Harz, 1977: 24 [*Phyllodromica*].

Slowakei, Muránska planina. ♂ Holotype, 11 ♂ paratypes and 28 ♀ paratypes.

There are two ♂ paratypes and two ♀ paratypes (one of each card mounted and the other in alcohol) in the MHNG collection. According to the original description the holotype and other paratypes were deposited in collection of F. Chládek. Box Blattodea 16 and alcohol collection.

*Phyllodromica chladeki* Harz, 1977

**ebneri** Harz, 1975b: 7 [*Phyllodromica*].

Palästina, Khudeia bei Haifa. ♂ Holotype, 1 ♂ paratype and 2 ♀ paratypes.

The ♂ paratype which was stated to be deposited in Harz's collection is currently on loan from the MHNG (being described as the holotype on the loan form). According to the original description the ♂ holotype was deposited in the NHMW, but only a ♀ paratype is held there (also currently on loan). The whereabouts of the other specimens is unknown. Box Blattodea 16.

A junior synonym of *Luridiblatta beybienkoi* (Maran, 1957)

**eckerleini** Harz, 1977b: 28-29 [*Ectobius*].

Frankreich, Montagne de Lure. ♀ Holotype and 1 ♀ paratype.

Holotype ♀ with labels: "France, Montagne de Lure, 9.viii.1956, Dr. H. Eckerlein leg." [handwritten by Harz on white card]; "Ectobius eckerleini n. sp. K. HARZ det." [handwritten by Harz on white card]; "Holotypus" [handwritten by Harz on red card]. The specimen is card mounted having been directly pinned previously. The claws of the left front leg, the tarsi of the right front, middle and hind legs, and the claws of the left hind leg are missing. The ♀ paratype is also present. Box Blattodea 11.

*Ectobius eckerleini* Harz, 1977

**fernandesi** Harz, 1975b: 6-7 [*Ectobius*].

Spanien, Bosque de Cernadas. ♂ Holotype, 1 ♂ paratype and 2 ♀ paratypes.

There is one ♂ paratype in the MHNG collection. The ♂ holotype is in the NHMW, as stated in the original description. There are also three ♀, one labelled as allotype and two as paratypes. It is not clear whether one of these was added after the publication of the description (and is thus not part of the type series) or the number of specimens given in the original description was incorrect. Box Blattodea 12.

A junior synonym of *Ectobius lucidus* (Hagenbach, 1822)

**hispanica** Harz, 1975a: 4 [*Loboptera*].

Spanien, Totana. ♂ Holotype and 4 ♀ paratypes.

Holotype ♂ with labels: "España, Totana, 24.-25.05.1969, Eitschberger et Mager leg." [printed on white card]; "Loboptera hispanica n. sp. det. Kurt HARZ" [handwritten by Harz on white card]; "HOLOTYPUS" [printed on red card]. The specimen is card mounted. The end of the abdomen has been dissected and is mounted on four glass microscope slides which are stored in a plastic container in the insect box. Two ♀ paratypes, one labelled as allotype, are also present. According to the original description one ♀ paratype was deposited in what is now part of the MNMS; the whereabouts of the other paratype is unknown. Box Blattodea 25.

*Loboptera hispanica* Harz, 1975

**gaschei** Harz, 1985b: 187-189 [*Tartaroblatta*].

Tatschikistan, Höhe am Ansor-Pass. ♀ Holotype, 1 ♀ paratype and 3 immature paratypes.

Holotype ♀ with labels: “USSR, Tatchikistan, Dushanbe, 3376 m, Anzor Pass, 19.7.1984, D. GASCHÉ” [handwritten by Harz on white card]; “Tartaroblatta gaschei HARZ Kurt HARZ det” [handwritten by Harz on white card with “Kurt HARZ det” printed]; “MHNG coll. Harz” [printed on white card]; “Holotypus” [handwritten by Harz on red card]. The specimen is card mounted. The left antenna, the tarsi of the left front leg, right middle leg, the last tarsal segment of the left middle leg, the tarsi of the right hind leg and the entire left hind leg are missing. The four paratypes are also present in the MHNG collection. Box Blattodea 24.

*Tartaroblatta gaschei* Harz, 1985

**llorentae** Harz, 1971c: 343 [*Phyllodromica*].

Spanien, Menorca. ♂ Holotype and 6 ♀ paratypes.

Although the original description states that a ♀ paratype was deposited in the MHNG, no specimens were found in the collection. According to the original description the holotype and remaining paratypes were deposited in the MNMS.

*Phyllodromica llorentae* Harz, 1971

**lodosi** Harz, 1983b: 45-46 [*Ectobius*].

Türkei, Zonguldak-Bartin. ♂ Holotype, 11 ♂ paratypes and 3 ♀ paratypes.

Three ♂ and one ♀, all specimens apparently labelled as paratypes, are currently on loan from the MHNG. According to the original description two ♂ paratypes and one ♀ paratype were deposited in Harz's collection and the holotype and other paratypes were deposited in the collection of N. Lodos.

*Ectobius lodosi* Harz, 1983

**maculata marani** Chládek & Harz, 1980: 176-178 [*Phyllodromica*].

Slovakischer Karst, Domica. ♂ Holotype, 53 ♂ paratypes and 39 ♀ paratypes.

There are two card mounted ♂ paratypes and two card mounted ♀ paratypes in the MHNG collection. According to the original description the holotype and other paratypes were deposited in the collection of F. Chládek. Box Blattodea 16.

*Phyllodromica marani* Chládek & Harz, 1980

**nadigi** Harz, 1976b: 19-20 [*Phyllodromica*].

Elba, Mad. de Monte. ♂ Holotype, 9 ♂ paratypes and 8 ♀ paratypes.

Holotype ♂ with labels: “Elba 23.8.1959, Mad. d. Monte, 450-600m leg. Nadig” [handwritten by Nadig on white card with “Elba”, “1959” and “leg. Nadig” printed]; “*Phyllodromica nadigi* n. sp. Kurt HARZ det.” [handwritten by Harz on white card with “Kurt HARZ det.” printed]; “Holotypus” [handwritten by Harz on red card]. The specimen is micro-pinned to a card mount secured on a larger pin which also carries the labels. The tarsi of the right hind leg are missing. There are also eight

♂ paratypes and six ♀ paratypes, one labelled as allotype, in the MHNG. The whereabouts of the other paratypes is unknown. Box Blattodea 15.

*Phyllodromica nadigi* Harz, 1976

## Dermaptera

**thaleri** Harz, 1980: 156-157 [*Chelidurella*].

Innsbruck, Gross-Glockner. ♂ Holotype and 17 paratypes (6 in alcohol).

Card-mounted ♂ holotype with labels: “K. THALER, Nord-Tirol, Umg. Innsbruck, Maria Waldfast 16.11.76 – 4.5.1977, Fallen” [handwritten by Harz on white card]; “*Chelidurella thaleri* sp. n. Kurt HARZ det. 1980” [handwritten by Harz on white card with “Kurt HARZ det. 1980” printed]; “ex coll. K. Harz” [printed on a strip of white card]; “Holotypus” [handwritten by Harz on red card]. The right antenna is broken off at the fifth segment. There are eleven card mounted specimens and five specimens in alcohol, all collected by Thaler in 1977, labelled as paratypes in the MHNG collection. The whereabouts of the other paratype is unknown. Box Dermaptera 14 and alcohol collection.

*Chelidura thaleri* (Harz, 1980)

## Mantodea

**kinzelbachi** Harz, 1988d: 208 [*Kinzelbachia*].

Anatolien, Ruins of Castalar (Heiropolis). ♂ Holotype and 8 immature paratypes.

Juvenile ♂ holotype with labels: “Türkei, Ruins of Castalar (Heiropolis), 37.11-36.11, 23.7.1986, 86/71 R. KINZELBACH” [handwritten by Harz on white card]; “*Kinzelbachia kinzelbachi* n. sp. ♂ Kurt HARZ det” [handwritten by Harz on white card with “Kurt HARZ det” printed]; “Holotypus” [handwritten by Harz on red card]. Both antennae are missing and the middle and hind legs are detached. Numerous fragments of leg and the terminalia are glued on to three card mounts (each with “Kurt HARZ det” printed) secured on the original pin. The eight paratypes are also present in the MHNG. As noted by Roy & Cuche (2008), the neotype designated by Ehrmann (2000: 3) is not valid. Box Mantodea 37a.

A junior synonym of *Rivetina asiatica* Mistshenko, 1967

**ragneri** Harz, 1988d: 208-209 [*Kinzelbachia*].

Türkei, Ruins of Castalar (Heiropolis). ♂ Holotype and 2 immature paratypes.

Juvenile ♂ holotype with labels: “TR Ruins of Castalar (Hieropolis), 37° 11' / 36° 11', 23.07.86 / 77 leg. Kinzelbach” [handwritten on white paper]; “F6” [handwritten in pencil on a square of white paper]; “Klebe: Eukit, Losber. xy/0/7/6” [handwritten by Harz on white card]; “*Kinzelbachia ragneri* sp. n. Kurt HARZ det” [handwritten by Harz on white card with “Kurt HARZ det” printed]; “Holotypus” [handwritten by Harz



on red card]. The holotype is broken; the meso and metathorax with the right middle leg and the abdomen remain on the pin, the head, prothorax and front legs are glued to an identification label with “Klebe: Eukit, Lösungsmittel F6♀” handwritten by Harz on the other side, and the right hind leg is glued to a piece of white card, both secured on the original pin. The left middle and hind legs are missing, as are the antennae, the tarsi of the right middle leg and the claw of the right hind leg. The abdomen is shrivelled. The two paratypes are also present in the MHNG. As noted by Roy & Cuche (2008), the neotype designated by Ehrmann (2000: 3) is not valid. Box Mantodea 37c.

A junior synonym of *Rivetina caucasica caucasica* (Saussure, 1871)

## Orthoptera

*apricarius tatrae* Harz, 1971a: 335 [*Chorthippus*].

CSSR, Höhlenrain (Hohe Tatra). ♂ Holotype, 2 ♂ paratypes and 7 ♀ paratypes.

The original description states that a pair of paratypes was deposited in Harz's collection, but these could not be found in the MHNG. The holotype and six paratypes, one labelled as allotype, are in the NHMW, as stated in the original description.

*Pseudochorthippus montanus tatrae* (Harz, 1971)

*beieri* Harz, 1966b: 21 [*Antaxius*].

Val Verzasca, Sonogno, Tessin. ♂ Holotype.

No specimens found in the MHNG. The holotype is in the SMNS according to Holstein & Ingrisch (2004) (images on OSF).

*Antaxius beieri* Harz, 1966.

*biguttulus yersini* Harz, 1975d: 895 [*Chorthippus*].

Leon, collado de Carmenes. ♂ Holotype, 13 ♂ paratypes and 6 ♀ paratypes.

Holotype ♂ with labels: “U. Eitschberger et H. Steiniger leg. Espana (Léon) Cdo de Carmenes, 1300-1400m” and “20 Aug. 1972” [printed on different sides of the same piece of white card]; “Holotypus” [printed on red card with “Holo” added by hand]; “Chorth. biguttulus yersini n. ssp. K. HARZ d.” [printed on white card]. Specimen set with right wings spread and left wings folded. The left front leg is missing. A micro-tube containing dissected parts is secured through the stopper on the original pin. There are seven ♂ and two ♀ specimens labelled as allotype and paratypes in the MHNG collection. According to the original description, further paratypes were deposited in the NHMW (where one specimen can be identified) and in the collection of C. Walther; the latter are now in the SMFD (images on OSF). Box Harz 145.

*Chorthippus yersini* Harz, 1975

*bolivari muchei* Harz, 1979c: 127 [*Tetrix*].

Tadshikistan, Gori Bachmal. ♂ Holotype, 3 ♂ paratypes and 6 ♀ paratypes.

Holotype ♂ with labels: “Tadshikistan, Gori Bachmal, 90km E Samarkand, 1600m, 22.5.1979 W. H. MUCHE” [handwritten by Harz on white card]; “HOLOTYPUS” [printed on red card]; “*Tetrix bolivari muchei* sub sp. n. det. Kurt HARZ 1979” [handwritten by Harz on white card with “det. Kurt HARZ 1979” printed]. Specimen set with wings folded. One antenna and the right hind leg are missing; the other antenna is glued to a card mount secured on the original pin. There are three ♂ and six ♀ specimens with the same data and labeled as allotype and paratypes. Box Harz 45a.

A junior synonym of *Tetrix bolivari* Sauley, 1901

*bornhalmi* Harz, 1971a: 336-338 [*Chorthippus*].

Jugoslawien, Dubrovnik. ♂ Holotype, 3 ♂ paratypes and 3 ♀ paratypes.

According to the original description two ♂ paratypes and one ♀ paratype were deposited in Harz's collection but there is only one ♂ paratype and one ♀ paratype in the MHNG. The original description states that the rest of the type specimens were deposited in D. Bornhalm's collection, which was left to the ZFMK. Box Harz 132.

*Chorthippus bornhalmi* Harz, 1971

*brevipennis vicheti* Harz, 1975d: 625 [*Arcyptera*].

Herauld, Collines de la Gardiole. ♂ Holotype, 2 ♂ paratypes and 4 ♀ paratypes.

Holotype ♂ with labels: “HERAULT, Collines de la Gardiole, 7.58, G. de Vichet” [handwritten on white card with “HERAULT” and “G. de Vichet” printed]; “Holotypus” [printed on white card disk with printed red margin]; “*Arcyptera brevipennis vicheti* HARZ, det. K. HARZ” [handwritten by Harz on white card]. Specimen set with right wings spread and left wings folded. The left front leg and the last tarsal segment of the right hind leg are missing. Dissected genitalia are glued to a card mount secured on the original pin. There are two ♀ and four ♀ specimens labelled as allotype and paratypes in the MHNG collection. Boxes U25 and Harz 99.

*Arcyptera brevipennis vicheti* Harz, 1975

*carinthiaca kisi* Harz, 1973c: 404 [*Miramella*].

Rumänien, Valea Mare, Moldavia. ♂ Holotype and 1 ♀ paratype.

Holotype ♂ with labels: “Moldova N Valea Mare 14.viii.1967 leg. B. Kis” [handwritten on white card with black printed margin]; “*Miramella irena* Fruhst.?” [handwritten on white card with black printed margin]; “*Kisiella carinthiaca carpathica* [sic] n. ssp. det. K. HARZ” [handwritten by Harz on white card]; “Holotypus” [handwritten by Harz on red card]; “*M. irena* (FRUHST.) ♂ det. NADIG” [printed on white paper]. Specimen set with wings folded. Both antennae and the last tarsal segment of both front legs are missing. There is a micro-

tube with dissected parts secured through the stopper on the original pin. A ♀ specimen with the same data and labelled as allotype is also present. Box Harz 56b.

A junior synonym of *Miramella irena* (Fruhstorfer, 1921)

***carinthiaca puschnigi*** Harz, 1973c: 404 [*Miramella*].

Kärnten, Heidner Höhe, Eisenhut. ♂ Holotype, 1 ♂ paratype and 2 ♀ paratypes.

There is one ♂ paratype and one ♀ paratype in the MHNG. The holotype is in the NHMW, as stated in the original description, along with one ♂ and one ♀ specimens, both labelled as paratypes. It is not clear whether one of these was added after the publication of the description (and thus is not part of the type series) or the number of specimens given in the original description was incorrect, but Baur & Coray (2004) accept all of the specimens as paratypes. Box Harz 56b.

A junior synonym of *Miramella carinthiaca* (Obenberger, 1926)

***chopardi*** Harz, 1971a: 332 [*Chorthippus*].

New name for *Omocestus corsicus montanus* Chopard, 1924, which Harz placed in the genus *Chorthippus* and therefore became a junior homonym of *Chorthippus montanus* (Charpentier, 1825).

A junior synonym of *Chorthippus corsicus* (Chopard, 1924)

***concolor peneri*** Harz, 1970a: 192 [*Conocephalus*].

Hazeva. ♂ Holotype, 6 ♂ paratypes and 6 ♀ paratypes.

The MHNG collection contains three ♂ and two ♀ paratypes. There are another five paratypes in the BMNH (the presence of type material is indicated by their online database). According to the original description the holotype and two ♀ paratypes were deposited in the collection of the Hebrew University in Jerusalem. Images on OSF. Box Harz 10.

*Conocephalus concolor peneri* Harz, 1970

***cristatus sulcatus*** Harz, 1973a: 245 [*Pamphagus*].

Monts de Belezma-Seriana, Algerien. ♂ Holotype.

Holotype ♂ with labels: "Algerien, Monts de Belezma-Seriana, 18 Mai 1971, Dr. ECKERLEIN" [handwritten by Harz on white card]; "Holotypus, P. cristatus sulcatus n. ssp. det. K HARZ" [handwritten by Harz on white card with "Holotypus" underlined with red ink]; "Holotypus" [printed on red card]. The tarsi of the left front leg are missing. A micro-tube with dissected parts is secured through the stopper on the original pin. Box Harz 47.

A junior synonym of *Pamphagus cristatus* Descamps & Mounassif, 1972

***derrai*** Harz, 1983a: 13-14 [*Rhacoleis*].

Ostkreta, Maronia. ♂ Holotype.

Holotype ♂ with labels: "16.10.1982, Kreta, 3km südl. Maronia, 200m leg. Gg. Derra" [handwritten on white card with "Kreta" and "leg. Gg. Derra" printed];

"Rhacoleis derrai spec. n. Kurt HARZ det" [handwritten by Harz on white card with "Kurt HARZ det" printed]; "Holotypus" [handwritten by Harz on red card]. The last tarsal segment of the left front leg is missing. Dissected genitalia are glued to a card mount secured on the original pin. Images on OSF. Box Harz 27.

*Rhacoleis derrai* Harz, 1983

***derrai*** Harz, 1988a: 117-121 [*Stenobothrus*].

Türkei, Silvas bei Gürün. ♂ Holotype and 1 ♀ paratype.

Holotype ♂ with labels: "Türkei, Sivas 22.7.1984/7, 5km W Gürün, 1700m leg. Derra/Hacker" [printed on white card with "/7" handwritten]; "Stenobothrus derrai n. sp. Holotypus Kurt HARZ det" [handwritten by Harz on white card with "Kurt HARZ det" printed]; "Holotyp." [handwritten by Harz on red card]. The left and right wings are glued to two card mounts secured on the original pin. The right middle and both hind legs are lost, the tibia and tarsi of the right front leg are glued to the upper card mount along with the left wings. A micro-tube with dissected genitalia is secured through the stopper on the original pin. A much damaged specimen with the same data and labelled "allotypus" is also present. Box Harz 109.

*Stenobothrus derrai* Harz, 1988

***descampsi*** Harz, 1971b: 339 [*Tridactylus*].

Angola. ♂ Holotype, 2 ♂ paratypes and 1 ♀ paratype.

There is one ♂ paratype in the MHNG. According to the original description the other type specimens were deposited in the MNHN. Box Harz 46.

*Xya descampsi* (Harz, 1971)

***dispar giganteus*** Harz, 1975d: 644 [*Chrysochraon*].

Baldrin Sumpf, Albanien. ♂ Holotype, 6 ♂ paratypes and 2 ♀ paratypes.

No specimens found in the MHNG. There are eight specimens collected by Ebner in 1918 from localities in Albania mentioned in the original description present in the NHMW collection; these are presumably part of the type series although they are not labelled as such.

*Chrysochraon dispar giganteus* Harz, 1975

***donskoffi*** Harz, 1971b: 340 [*Tridactylus*].

Angola. ♀ Holotype.

No specimens found in the MHNG. According to the original description the holotype was deposited in the MNHN.

*Xya donsokoffi* (Harz, 1971)

***ebneri*** Harz, 1966a: 26 [*Conocephalus*].

Albanien, Baldrin-Sumpf. ♂ Holotype and 3 ♀ paratypes.

No specimens found in the MHNG. The ♂ holotype and three ♀ paratypes are in the NHMW, as stated in the original description.

*Conocephalus ebneri* Harz, 1966

**eckerleini** Harz, 1975d: 877-880 [*Chorthippus*]. Obereichstätt, Mittelfranken. ♂ Holotype, 13 ♂ paratypes and 5 ♀ paratypes. Holotype ♂ with labels: "12.7.1958, bei Obereichstätt leg. Walther" [handwritten on white card with "leg. Walther" printed]; "Chorthippus eckerleini spec. n. K. HARZ det." [printed on white card]; "HOLOTYPUS" [printed on pink card]. Specimen set with right wings spread and left wings roughly folded. Most of the right antenna, the last tarsal segment of the right middle leg and the entire left middle leg are missing. A micro-tube with dissected parts is secured through the stopper on the original pin. There are five ♂ paratypes and four ♀ paratypes, one labelled as allotype, present in the MHNG; the whereabouts of the other paratypes is unknown. Box Harz 122. A junior synonym of *Chorthippus vagans vagans* (Eversmann, 1848).

**ehrmanni** Harz, 1991: 3 [*Platycleis*]. Türkei, Bochram. ♀ Holotype. Holotype ♀ with labels: "Türkei, 11v1990, Bochram am Golf v. Kerme. M. Stieve leg." [handwritten by Harz on white card]; "Platycleis ehmanni sp. n. Kurt HARZ det" [handwritten by Harz on white card with "Kurt HARZ det" printed]; "Holotypus" [handwritten by Harz on red card]. Most of both antennae, the right front leg, both middle legs and the left hind leg are lost. It is not clear whether this name is available because the description was printed in a newsletter that may not be a valid publication under the ICZN (Ingrisch & Willems, 2004). The name is treated as nomen nudum by Massa & Fontana (2011) and on OSF. Box Harz 16. *Platycleis ehmanni* Harz, 1991

**eitschbergeri** Harz, 1976a: 55-56 [*Discoptila*]. Spanien, Teruel, Sierra Alta. ♂ Holotype. Holotype ♂ with labels: "HISPANIA, Teruel, Sierra Alta, 30.VII.72, EITSCHBERGER leg." [printed on white card]; "Discoptila eitschbergeri n. sp. det. K. HARZ" [handwritten by Harz on white card]; "HOLOPARATYPUS" [printed on red card and modified by hand]; "Petaloptila sp. (larva) det. Gorochov" [handwritten on white card]. Most of the left antenna, the tarsi of the right middle leg and two tarsal segments of the right hind leg are lost. There is a micro-tube with dissected parts secured through the stopper on the original pin. Box Harz 41. A junior synonym of *Petaloptila aliena* (Brunner von Wattenwyl, 1882)

**eitschbergeri** Harz, 1973b: 344 [*Podisma*]. Piemont, Valdieri, Capella San Giovanni. ♂ Holotype and 2 ♀ paratypes. Holotype ♂ with labels: "Piemont, Valdieri, Capella San Giovanni, 1400m, 28.viii.1970 EITSCHBERGER" [handwritten by Harz on white card]; "Podisma eitschbergeri n. sp. K. HARZ det." [handwritten by Harz

on white card]; "Podisma pedestris (L.) det. K. HARZ" [printed on white card]; "HoloParatypus" [handwritten by Harz on red card]. Both antennae are missing. There is a micro-tube with dissected parts secured through the stopper on the original pin. Two ♀ specimens with the same data are labelled allotype and paratype. Box Harz 55.

*Podisma eitschbergeri* Harz, 1973

**ephippiger mischtschenkoi** Harz, 1966d: 129 [*Ephippiger*]. Kiev, Kanew. ♂ Holotype and an unspecified series of paratypes. No specimens found in the MHNG. The holotype is deposited in the NHMW as stated in the original description, accompanied by two ♂ paratypes and three ♀ paratypes.

*Ephippiger ephippiger mischtschenkoi* Harz, 1966

**ephipper moralesagacinoi** Harz, 1966d: 127 [*Ephippiger*]. España, Lérida, Virgen de Arés. ♂ Holotype and 1 ♀ paratype. Holotype ♂ with labels: "Prov. De Lerida, 1923 M. ESCALERA" [printed on white card]; "Virgende Arés, PTO. PAYÁS" [printed on white card]; "Morales-Agacino don. 1965" [handwritten by Harz on white card]; "Ephippiger vitium Serv. moralesagacinoi, ♂, Kurt Harz det." [handwritten by Harz on white card with "Kurt Harz det." printed, and "Holotypus" handwritten by Harz in red ink on the reverse]; "Holotypus" [printed on red card]. The tarsi of the left hind leg are lost. Dissected genitalia are glued to a card mount secured on the original pin. The ♀ paratype is also in the MHNG despite the fact that the original description states that it would be deposited in the ZSMC. Box Harz 30. A junior synonym of *Ephippiger diurnus diurnus* Dufour, 1841

**ephippiger vicheti** Harz, 1966d: 130-131 [*Ephippiger*]. Trentino, Storo. ♂ Holotype, 12 ♂ paratypes and 11 ♀ paratypes. There are no specimens from the type series in the MHNG. The holotype is in the NHMW as stated in original description, along with one ♂ and four ♀ paratypes. According to the original description there are further paratypes in the collections of the BMNH, ZMHB and ZSMC. Box Harz 30. A junior synonym of *Ephippiger persicarius* Fruhstorfer, 1921

**faberi** Harz, 1975c: 17-18 [*Platysolus*]. Spanien, C.<sup>do</sup> de Carmenes. ♂ Holotype, 5 ♂ paratypes and 7 ♀ paratypes. Holotype ♂ with labels: "U. Eitschberger et H. Steiniger leg. España (Léon) C.<sup>do</sup> de Cármenes 1300-1400m" and "20.AUG.1972" [printed on opposite faces of



white card]; “HOLOTYPUS” [printed on red card]; “*Platystolus faberi* n. sp. det. K. HARZ” [handwritten by Harz on white card]. The left hind leg is glued to a card mount secured on the original pin. There are ten other specimens with the same data and labelled as allotype and paratypes. Images on OSF. Box Harz 35.

*Callicrania faberi* (Harz, 1975).

**ganevi** Harz, 1986: 266-267 [*Pholidoptera*].

Rhodopen, Persenk Mine. ♀ Holotype.

Holotype ♀ with labels: “BULGARIA, Rhodopen, Persenk-mine 1000-1200m, 15.7.1985, J. GANEV” [printed on white card with “15.7” and “5, J. GANEV” handwritten]; “Holotypus” [handwritten by Harz on red card]; “*Pholidoptera ganevi* n. sp. Kurt HARZ det.” [handwritten by HARZ on white card with “Kurt HARZ det.” printed]. The claws of the right front leg, the tarsi of the right middle leg and the tarsi of the left hind leg are missing. The tibia and first tarsal segment of the right hind leg are glued to a card mount secured on the original pin. Images on OSF. Box Harz 24.

A junior synonym of *Pholidoptera aptera bulgarica* Maran, 1953

**greini** Harz, 1977a: 27-28 [*Poecilomon*].

Jugoslawien, Triglav, Bergstation Bohinjsee-Seilbahn. ♂ Holotype and 1 ♀ paratype.

Holotype ♂ with labels: “Jugoslawien, Bolinj Gebiet des Triglav, S des Bolinjsee-Jezero Sees, G. GREIN leg. viii.1977, 1525m” [handwritten by Harz on white card]; “*Poecilomon greini* n. sp. K. HARZ det.” [handwritten by Harz on white card]; “Holotypus” [handwritten by Harz on red card]. Three tarsal segments of the left front leg and the claws of the right middle and hind legs are lost. The left middle and right hind legs appear to have been reattached with glue. There is another specimen with the same data labelled as the allotype present. Images on OSF. Box Harz 7.

A junior synonym of *Poecilomon ornatus* (Schmidt, 1850)

**guentheri** Harz, 1976a: 55 [*Gryllomorpha*].

Griechenland, Rentina-Tal. ♂ Holotype and 2 ♀ paratypes.

Holotype ♂ with labels: “Hellas, Rentinatal, 19.viii.1971 auf Kulturgelände, R. KINZELBACH” [handwritten by Harz on white card]; “*Gryllomorpha guentheri* n. sp. K. HARZ det.” [handwritten by Harz on white card]; “HOLOPARATYPUS” [printed on red card and modified by hand]. The specimen is card mounted. Most of both antennae, the left middle leg, two tarsal segments of the right middle leg and the entire right hind leg are missing. The left front and hind leg are detached and glued to the card mount; both lack the last two tarsal segments. There is a micro-tube with dissected parts secured through the stopper on the original pin. There are also two immature ♀ specimens with the same data and labelled as paratypes in the MHNG. Box Harz 40.

*Gryllomorpha miramae guentheri* Harz, 1976

**hackeri** Harz, 1988c: 137-138 [*Phaneroptera*].

Türkei, 12 km von Hakkari. ♂ Holotype and 1 ♀ paratype. Holotype ♂ with labels: “Türkei, 12.9.1985/14, 12 km w Hakkari, 1500m leg. Hacker” [printed on white card with /14 handwritten]; “*Phaneroptera hackeri* n. sp. Kurt HARZ det.” [handwritten by Harz on white card with “Kurt HARZ det.” printed]; “Holotypus” [handwritten by Harz on red card]. Specimen fragmented and glued to three card mounts on the same pin. The top card mount has most of the thorax and the abdomen with the left wings and hind leg, which lacks the tarsi. The middle card mount has the right middle and hind legs, the former lacking the tarsi. The lower card mount has the head and most of the prothorax and the right hind wing. The antennae, right front wing, both front legs and the left middle leg are lost. There is a ♀ specimen with the same data labelled as allotype. Images on OSF. Box Harz 1.

*Phaneroptera hackeri* Harz, 1988

**hannae** Harz, 1991: 2 [*Platypleis*].

Bulgarien, Ograzden, Sastrino. ♀ Holotype and 1 ♀ paratype.

Holotype ♀ with labels: “Bulgaria, Ograzden, Sastrino, 31.5.1991, Ganev” [handwritten by Harz on white card]; “*Platypleis hannae* n. sp. Kurt HARZ det.” [handwritten by Harz with “Kurt HARZ det” printed]; “Holotypus” [handwritten by Harz on red card]. Most of both antennae, the tarsi of the right front leg and the last tarsal segment of the right hind leg are lost. There is a second ♀ labelled as an unspecified type in the MHNG collection. It is not clear whether this name is available because the description was printed in a newsletter that may not be a valid publication under the ICZN code (Ingrisch & Willemse, 2004). The name is treated as a nomen nudum by Massa & Fontana (2011) and on OSF. Box Harz 16.

*Platypleis hannae* Harz, 1991

†**harzensis** Harz, 1967b: [*Nepoptera*].

Willershausen. ♀ Holotype.

No specimens found in the MHNG. According to the original description the holotype (specimen 584-13) was deposited in the Geologisch-Paläontologische Institut of Göttingen University.

†*Nepoptera harzensis* Harz, 1967

**huxleyi** Harz, 1971b: 342 [*Tridactylus*].

Senegal, St. Luis. ♂ Holotype, 2 ♂ paratypes and 3 ♀ paratypes.

There is a pair of paratypes in the MHNG. According to the original description the other type specimens were deposited in the BMNH, and type material is indicated on their online database. Box Harz 46.

*Xya huxleyi* (Harz, 1971)

**indistinctus** Harz, 1979b: 115 [*Tridactylus*].

A new name for *T. musicus* Harz, 1978c, a junior homonym of *T. musicus* Tindale, 1928.

A junior synonym of *Tridactylus pfaendleri* Harz, 1970



***jacobsi*** Harz, 1975d: 890-891 [*Chorthippus*].

Calanda. Holotype ♂ and 35 ♂ and 44 ♀ paratypes.  
Holotype ♂ with labels: "Hispania, Calanda, 13.9.1972 Harz et al. legit" [printed on white card with the date altered by hand]; "Holotypus" [printed on red card]; "Chorthippus jacobsi spec. n. K. HARZ det." [printed on white card]. Specimen set with right wings spread and left wings folded. There are 73 specimens labelled as allotype and paratypes in the MHNG collection. According to the original description two paratypes were deposited in the MNSN, and there are further paratypes in the SMFD (images on OSF). Box Harz 133.

*Chorthippus jacobsi* Harz, 1975

***johnseni*** Harz, 1982a: 227-229 [*Chorthippus*].

Marokko, Ain-el-Leuh, Azrou. ♂ Holotype, 1 ♂ paratype and 2 ♀ paratypes.

Holotype ♂ with labels: "Marokko, Ain-el-Leuh b. Azrou, 4.u.5.8.59, Eckerlein leg." [printed on white card]; "Chorthippus johnseni n. sp. Kurt HARZ det" [handwritten by Harz on white card with "Kurt HARZ det" printed]; "Holotypus" [handwritten by Harz on red card]. Specimen set with wings folded, most of the right front wing is glued to a card mount secured on the original pin. The right front leg and both hind legs are missing. The tibia and tarsi of the right middle leg are glued to the abdomen, which is much repaired, but the femur is missing. The specimen appears to have been broken where the pin is inserted in the thorax and repaired with glue. Dissected genitalia are glued to a card mount secured on the original pin. A specimen with the same data and labelled as the allotype is also present. Box Harz 132b.

*Chorthippus johnseni* Harz, 1982

***kaestneri*** Harz, 1972: 129-130 [*Stenobothrus*].

Spanien, La Granja. ♂ Holotype and 2 ♀ paratypes. There is a ♀ paratype in the MHNG collection. The ♂ holotype is in the NHMW, as stated in the original description, along with one ♀ paratype which is labelled as allotype. Box Harz 108b.

*Omocestus viridulus kaestneri* (Harz, 1972)

***kaltenbachi*** Harz, 1965: 443 [*Barbitistes*].

Insel Lesina. 12 ♂ syntypes and 16 ♀ syntypes. No specimens found in the MHNG. The species was described from a series of specimens from Brunner von Wattenwyl's collection, now in the NHMW. Harz did not designate a holotype and so all of these specimens must be considered syntypes. The NHMW contains 31 specimens identifiable as possible syntypes, of which one has been labelled as the holotype, one as allotype, and 16 as paratypes.

*Barbitistes kaltenbachi* Harz, 1965

***kaltenbachi*** Harz, 1987d: 588-590 [*Sphodromerus*].

Syrien, Palmyra, Tal der Gräber, leg. Kaltenbach. ♂

Holotype and 4 ♀ paratypes.

Holotype ♂ with labels: "Syrien, Palmyra, Tal der Gräber, 14.11.1981, R. KINZELBACH [sic]" [handwritten by Harz on white card]; "Holotypus" [handwritten by Harz on red card]; "Sphodromerus kaltenbachi n. sp. Kurt HARZ det." [handwritten by Harz on white card with "Kurt HARZ det." printed]. Specimen set with right wings spread and left wings folded. Most of the left antenna, the tarsi of the right front leg, the last tarsal segment of both middle legs, the last tarsal segment of the left hind leg and the tarsi of the right hind leg are missing. Dissected parts of the genitalia are glued to a card mount secured on the original pin. There are also three ♀ paratypes in the MHNG, one labelled as the allotype. Harz stated in the original publication that another ♀ paratype was deposited in the collection of Kaltenbach, and this specimen is now in the NHMW. Box Harz 64.

*Sphodromerus kaltenbachi* Harz, 1987

***kinzelbachi*** Harz, 1975b: 8-9 [*Ancistrura*].

Griechenland, Chalkidike, Choloman. ♂ Holotype. Holotype with labels: "Graecia, Cholomon (Chalkidike) 19.viii.1971 KINZELBACH" [handwritten by Harz on white card]; "Ancistrura kinzelbachi n. sp. det. K. HARZ" [handwritten by Harz on white card]; "HOLOTYPUS" [printed on pink card]. Most of the right antenna, two tarsal segments of the left front leg, the claws of the right middle leg, the last tarsal segment of the right hind leg and the entire left hind leg are missing. Images on OSF. Box Harz 4.

A junior synonym of *Ancistrura nigrovittata* (Brunner von Wattenwyl, 1878)

***kinzelbachi*** Harz, 1971a: 331 [*Discoptila*].

Griechenland, Karpathos, Grillenhöhle. ♂ Holotype and 2 ♂ paratypes.

Holotype ♂ with labels: "Graecia, Karpathos, 31.iii.1963 Grillenhöhle R. KINZELBACH" [handwritten by Harz on white card]; "Karpathos, 31.3.1963, Grillenhöhle" [handwritten in pencil on white card]; "Discoptila kinzelbachi K. HARZ det. K. HARZ" [handwritten by Harz on white card]; "Holotypus" [printed on white card disc with printed red border]. The specimen is card mounted and has lost the left middle leg, two tarsal segments of the right middle leg, the tarsi of the left hind leg and the entire right hind leg. A micro-tube with dissected parts is secured through the stopper on the original pin. A ♂ and an immature ♂ with the same data are labelled as paratypes. Box Harz 41.

*Ovaliptila kinzelbachi* (Harz, 1971)

***kinzelbachi*** Harz, 1981: 179-181 [*Eupholidoptera*].

Griechenland, Lakonia, Githion. ♂ Holotype. Holotype ♂ with labels: "Hellas, Lakonia, Githion, 17.7-5.8.1980, No. 300 R. KINZELBACH" [handwritten by Harz on white card]; "Eupholidoptera kinzelbachi n. sp. Kurt HARZ det" [handwritten by Harz on white

card with “Kurt HARZ det” printed]; “Holotypus” [handwritten by Harz on white card with hand coloured red border]; “Holotypus” [printed on red card]. The last tarsal segment of the left hind leg and the claws of the right hind leg are missing. Dissected genitalia are glued to a card mount secured on the original pin. Images on OSF. Box Harz 25.

A junior synonym of *Eupholidopterus megastyla* (Ramme, 1939)

**kinzelbachi** Harz, 1979a: 107 [*Glandulosa*].

Türkei, Cebelib, Tobrak Su. ♂ Holotype.

Holotype ♂ with labels: “Türkei, Cebelib S. Antakya, Tobrak Su (Dafni Quelle) 10.III.1977 R. KINZELBACH et al. Rg. Nr. 15” [handwritten by Harz on white card]; “*Glandulosa kinzelbachi* sp. n. det. Kurt HARZ 1979” [handwritten by Harz on white card with “det. Kurt HARZ 1979” printed]; “Fam. Gryllidae, Gattung *Glandulosa* HARZ” [handwritten by Harz on white card]; “Holotypus” [handwritten by Harz on red card]. The tarsi of all of the left legs are missing. The right hind leg is glued to a card mount and there is a micro tube with dissected genitalia secured through the stopper, both on the original pin. Box Harz 41.

*Glandulosa kinzelbachi* Harz 1979

**kinzelbachi** Harz, 1976a: 56 [*Mogoplistes*].

Karpathos. ♂ Holotype, 6 ♂ paratypes and 13 ♀ paratypes.

The holotype and eighteen paratypes in the MHNG collection are currently on loan. According to the original description one ♀ paratype was deposited in the collection of H. Pieper of Kiel. Alcohol collection.

*Mogoplistes kinzelbachi* Harz, 1976

**kisi** Harz, 1967a: 98-100 [*Conocephalus*].

Albanien, Elbasan. ♂ Holotype, 2 ♂ paratypes and 2 ♀ paratypes.

The MHNG collection has one ♂ and one ♀ labelled as paratypes, but these specimens were captured in Greece and are not part of the type series. The ♂ holotype is in the NHMW, as stated in the original description, with two ♂ and three ♀ specimens labelled as paratypes. It is not clear whether any of these were added after the publication of the description (and are thus not part of the type series) or if the number of specimens examined given in the original description was incorrect. Box Harz 9a.

*Conocephalus kisi kisi* Harz, 1967

**kisi gaukleri** Harz, 1969a: 114 [*Conocephalus*].

Ladakia [country uncertain]. ♂ Holotype, 1 ♂ paratype and 2 immature ♀ paratypes.

No specimens found in the MHNG. The holotype was from the collection of Brunner von Wattenwyl, and is in the NHMW, along with one ♂ and two ♀ specimens labelled as paratypes.

*Conocephalus kisi gaukleri* Harz, 1969

**knippereri** Harz, 1982b: 231-234 [*Omocestus*].

Spanien, Cala Jostel. 1 ♂ syntype and 2 ♀ syntypes.

No specimens found in the MHNG collection. Harz did not designate a holotype and so the three type specimens, which are stated to be in the SMNK in the original description, should be considered syntypes.

A junior synonym of *Omocestus minutissimus* (Brullé, 1832)

**krahmeri** Harz, 1978a: [*Grusia*].

SSSR [sic], Georgien, Tbilissi. ♀ Holotype.

Holotype ♀ with labels: “C.C.C.P., Georgien, Tbilissi, 8.vii.1976, am Schildkrötensee leg. L. KRAHMER” [handwritten by Harz on white card]; “Holotypus” [handwritten by Harz on red card]; “*Grusia krahmeri* spec. n. det. Kurt HARZ 1979” [handwritten by Harz on white card with “det. Kurt HARZ 1979” printed]. Specimen set with right wings spread and left wings folded. The last tarsal segment of the left hind leg is missing. Box Harz 83.

A junior synonym of *Pseudocoles oedipodioides* Bolivar, 1899

**lagrecai** Harz, 1975d: 889-890 [*Chorthippus*].

[Greece] Dephi. ♂ Holotype, 26 ♂ paratypes and 22 ♀ paratypes.

Holotype ♂ with labels: “18.10.69, Δελοφοί, leg. Chr. Walther” [handwritten on white card with “leg. Chr. Walther” printed]; “*Chorthippus lagrecai* spec. n. K. HARZ det.” [printed on white card]; “HOLOTYPUS” [printed on red card]. Specimen set with right wings spread and left wings folded. The tarsi of the left front leg and the last tarsal segment of the left hind leg are missing. The end of the abdomen is detached and glued to a card mount secured on the original pin, a second card mount, also on the original pin, carries dissected parts. Also present are 24 ♂ paratypes and 19 ♀ paratypes, one labelled as allotype. According to the original description two ♂ paratypes and two ♀ paratypes were deposited in the ZMHB.

A junior synonym of *Chorthippus bornhalmi* Harz, 1971

**lodosi** Harz, K. 1975b: 9-14 [*Poecilomon*].

Türkei, Manisa. ♂ Holotype and 1 ♂ paratype.

Holotype ♂ with labels: “Manisa, 2.6.1972, Y.of” [handwritten on white card]; “*Poecilomon lodosi* n. spec. det. K. HARZ” [handwritten by Harz on white card]; “HOLOTYPUS” [printed on pink card]. The claws of the right front and left hind legs, and the last tarsal segment of the right hind leg are missing. The paratype is stated in the original description to have been deposited in the collection of N. Lodos, who collected the specimens. Images on OSF. Box Harz 7.

*Poecilomon lodosi* Harz, 1975

**maculatus australis** Harz, 1975d: 804 [*Myrmyleotettix*].

Sierra Nevada. ♀ Holotype.

No specimens found in the MHNG collection. The ♀ holotype is in the NHMW, as stated in the original description.

A junior synonym of *Myrmeleotettix maculatus maculatus* (Thunberg, 1815)

***maculatus hackeri*** Harz, 1987a: 403-405 [*Myrmeleotettix*].

Phalakron Oros, Chionotrypa, Griechenland. ♂ Holotype and 1 ♂ paratype.

Holotype ♂ with labels: “N Griechenland, Phalakron Oros, Chionotrypa, 1700m, 1.9.1985, leg. Hacker 8511” [printed on white paper with “8511” handwritten]; “Holotypus” [handwritten by Harz on red card]; “Myrmeleotettix maculatus hackeri n. ssp. K. HARZ det.” [handwritten by Harz on white card]. Specimens set with wings folded. The left hind leg is missing, the left front leg, which lacks the last tarsal segment, and right hind leg are detached and glued to a card mount secured on the original pin. A second card mount on the same pin has the end of the left antenna glued to it. A ♂ with the same data and labelled as paratype is also in the MHNG collection. Box Harz 119.

*Myrmeleotettix maculatus hackeri* Harz, 1987

***maculatus hispanicus*** Harz, 1975d: 805 [*Myrmeleotettix*]. Val de Ordesa, Aragonien. ♂ Holotype, 9 ♂ paratypes and 8 ♀ paratypes.

Holotype ♂ with labels: “HISPANIA, Val de Ordesa, 29-31.8.-1.9.1972 K. Harz et al. leg.” [printed on white card]; “Holotypus” [printed on red card]; “Myrmeleotettix maculatus hispanicus n. ssp. det. K. HARZ” [handwritten by Harz on white card]. Specimen set with wings folded. The tibia and tarsi of the right hind leg are missing. There are 19 specimens labelled as allotype or paratype in the MHNG collection, all with the same label data as the holotype, suggesting that the number of specimens examined given in the original description was erroneous. Box Harz 119.

A junior synonym of *Myrmeleotettix maculatus maculatus* (Thunberg, 1815)

***major muchei*** Harz, 1963: 195-197 [*Isophya*].

Taurus, Bolghar-Dagh, Berendi. 3 ♂ syntypes and 4 ♀ syntypes.

One ♂ syntype and one ♀ syntype. A ♂ with labels: “Anatolia / Mai, Toros Dagh, Berendi leg. Mucche” [printed on white card]; “*Isophya maior muchei* [sic] Harz ♂ det. Kurt Harz” [handwritten by Harz on white card with “det. Kurt Harz” printed]; “Paratypus” [handwritten on red card]; “Syntypus” [printed on red paper]. Both antennae, the tibia and tarsi of the left front leg, the tarsi of the right front leg, the tarsi of the left middle leg, two tarsal segments of the right middle leg, the last tarsal segment of the right hind leg and the entire left hind leg are missing. The tibia of the left middle leg is detached and glued to the determination label. The abdomen has

been eviscerated and stuffed. A ♀ with labels: “Anatolia / Mai, Toros Dagh, Berendi leg. Mucche” [printed on white card]; “*Isophya maior muchei* [sic] Harz ♂ det. Kurt Harz” [handwritten by Harz on white card with “det. Kurt Harz” printed]; “Paratypus” [handwritten on red card]; “Syntypus” [printed on red paper]. The entire right front leg, the claws of both middle legs and the last tarsal segment of both hind legs are lost. The abdomen has been eviscerated and stuffed. Harz did not designate a holotype or state where the specimens were deposited; the whereabouts of the other syntypes is unknown, but W. Mucche’s collection is in the SMTD. Box Harz 3.

A junior synonym of *Isophya major* Brunner von Wattenwyl, 1878

***meadowsae*** Harz, 1970a: 196-198 [*Conocephalus*].

Dioura, Mali. ♂ Holotype and 17 paratypes (sex not specified for all specimens).

The MHNG collection has one ♂ and one ♀ paratype. The holotype and the other paratypes are in the BMNH collection (images on OSF) as stated in the original description. Box Harz 10.

*Conocephalus meadowsae* Harz, 1970

***mollis reissingeri*** Harz, 1972: 130 [*Chorthippus*].

Spanien, Puerto de la Carrasque. 2 ♂ syntypes. One ♂ syntype with labels: “Hispania, Umgeb. Alicante, Peñorroja de Jijona, 800m, S-Hang, 18.ix.1971, E. REISSINGER 1971” [handwritten by Harz on White card]; “*Chorthippus mollis reissingeri* n. ssp. det. K. HARZ” [handwritten by Harz on white card]; “*Chorthippus reissingeri* HARZ, K. HARZ det.” [printed on white card]; “HOLOTYPUS” [printed on red card]. Specimen set with right wings spread and left wings folded. The right antenna, the left front leg and the tarsi of the right front and middle legs are missing. A micro-tube with dissected parts is secured through the stopper on the original pin. Although the locality given in the description does not appear to match the data label of the specimen except for the date, there is a mountainous ridge called the Carrasqueta overlooking Jijona. There are 14 ♂ and four ♀ specimens labelled as allotype and paratypes, but these were collected after the publication of the description and are therefore not part of the type series. This is also true of the specimens labelled as paratypes in the SMFD (images on OSF). The whereabouts of the second syntype is unknown.

*Chorthippus reissingeri* Harz, 1972

***muchei*** Harz, 1978b: 58-59 [*Oedipoda*].

Tadshikistan, Pamir, Roschkala. ♀ Holotype and 1 ♀ paratype.

Holotype ♀ with labels: “Pamir – linkes Ufer Schahdara b. Roschkala 19.7.1977” [handwritten on white card, the year added in different ink]; “*Oedipoda muchei* sp. n. det. K. HARZ” [handwritten by Harz on white card]; “Holotypus” [handwritten by Harz on red card].



Specimen set with right wings spread and left wings folded. The last tarsal segment of the right front leg and the claws of the left front and left hind legs are lost. The ♀ paratype is also present. Box Harz 81b.

*Oedipoda muchei* Harz, 1978

**musicus** Harz, 1978c: 91-92 [*Tridactylus*].

Jordanien, M'an [sic], Petra. ♂ Holotype, 1 ♂ paratype and 1 ♀ paratype.

Holotype ♂ with labels: "Jordanien, Ma'an, Petra, Wadi Musa unterhalb Forum 17.3.1977 Reg. N. 30c W. SCHMIDT, F. KRUPP" [handwritten by Harz on white card]; "Tridactylus musicus sp. n. det. K. HARZ" [handwritten by harz on white card]; "Holotypus" [handwritten by Harz on red card]; "Tridactylus pfaendleri HARZ det. 1980" [handwritten by Harz on white card]. The specimen is card mounted; the right fore wing and the right middle and hind legs are detached and glued to the mount. There is a micro-tube with dissected parts secured through the stopper on the original pin. Also present are a ♂ and a ♀ with the same data labelled as paratypes. *T. musicus* Harz is a junior homonym of *T. musicus* Tindale, 1928 and Harz proposed the replacement name *T. indistinctus* Harz, 1979. Box Harz 46.

A junior synonym of *Xya pfaendleri pfaendleri* (Harz, 1970)

**nadigi** Harz, 1987b: 51-54 [*Arcyptera*].

Maroc, Dievilets. ♂ Holotype, 1 ♂ paratype and 4 ♀ paratypes.

Holotype ♂ with labels: "MAROC, Marr., Dievilets, 19.-23.IV.67 leg. Nadig" [handwritten by Nadig on white card with "leg. Nadig" printed]; "MHNG coll. Nadig" [printed on white paper]; "Nadigia nadigi n. sp. ♂ Kurt HARZ det" [handwritten by Harz on white card]; "Holotypus" [handwritten by Nadig on red card]. Specimen set with right wings spread and left wings folded. The right antenna, the right front leg and the last tarsal segment of the left front leg are missing. The right hind leg is detached and glued to a card mount secured on the original pin. The holotype and three ♀ paratypes, one labelled as allotype, are in the MHNG Nadig collection, and a pair of paratypes is in the Harz collection. Boxes Nadig 633 and Harz 103b.

*Adolfius nadigi* (Harz, 1987)

**nadigi** Harz, 1987c: 61-63 [*Omocestus*].

Algerien, Aurès, Dj. Mahmal. ♂ Holotype and an unspecified number of ♂ and ♀ paratypes.

Holotype ♂ with labels: "ALGERIE ALG.79:47 Aurès: Dj. Mahmel, SE-Hang 1650-1800m, 10.7.79 leg. Nadig" [printed on white card]; "Genit. extrah." [printed on white card]; "MHNG coll. Nadig" [printed on white paper]; "Omocestus Nadigi n. sp. Kurt HARZ det" [handwritten on white card with "Kurt HARZ det" printed]; "HOLOTYPUS" [printed on red card]. Specimen set with the left wings folded. The left antenna,

left middle leg right middle leg and left hind leg are missing. The right antenna, right wings and genitalia are glued to a card mount secured on the original pin. There are eighteen ♂ and sixteen ♀ paratypes, one labelled as allotype, in the Nadig collection and two ♂ paratypes and one ♀ paratype in the Harz collection. Boxes Nadig 668 and Harz 105b.

*Omocestus nadigi* Harz, 1987

**newmanae** Harz, 1969b: 707-710 [*Discoptila*].

Epirus, Paraskevi. Unspecified number of ♂ and ♀ syntypes.

No specimens found in the MHNG. The original description does not list the number of specimens seen, although both ♂ and ♀ characters are illustrated. The NHMW, in which the type series was deposited according to the original description, has four specimens labelled as holotype and paratypes. These specimens are nevertheless syntypes because the original description does not designate a holotype.

*Ovaliptila newmanae* (Harz, 1969)

**ornatus hoelzeli** Harz, 1966b: 23-24 [*Poecilimon*].

Mala Rupa, Macedonien. ♂ Holotype and 1 ♂ paratype. No specimens found in the MHNG collection. According to the original description the type specimens were deposited in the ZSMC.

*Poecilimon hoelzeli* Harz, 1966

**pedestris nadigi** Harz, 1975b: 14 [*Podisma*].

Passo Croce Domini-Gio. ♂ Holotype, 1 ♂ paratype and 2 ♀ paratypes.

Holotype ♂ with labels: "P. Croce 71:64 Domini-Gio. Bala, 2000-2050m, 8.9.71 leg. Nadig" [handwritten by Nadig on white card with "leg. Nadig" printed]; "Podisma pedestris nadigi n. ssp. K. HARZ det." [handwritten by Harz on white card]; "HOLOTYPUS" [printed on red card]. There is a micro-tube with dissected parts secured through the stopper on the original pin. There is a ♀ paratype labelled as allotype in the Nadig collection and a ♂ and a ♀ paratype in the Harz collection. The Nadig collection also has a series of specimens with the same data labelled as paratypes, but these were not seen by Harz (the original description mentions only two ♂ and two ♀) and are not part of the type series. Boxes Nadig 432 and Harz 54.

*Podisma pedestris nadigi* Harz, 1971

**peneri** Harz, 1970a: 198 [*Leptophyes*].

Forest near Massada, Golan Heights. ♂ Holotype, 2 ♂ paratypes and 3 ♀ paratypes.

The MHNG collection has one ♂ paratype and one ♀ paratype. There are two paratypes in the BMNH (images on OSF). According to the original description the holotype and another paratype were deposited in the collection of the Hebrew University in Jerusalem. Box Harz 5.

*Leptophyes peneri* Harz, 1970



**pfaendleri** Harz, 1991: 1 [*Tettigonia*].  
Bulgarien, Sakar. ♀ Holotype and 1 ♀ paratype.  
Holotype ♀ with labels: “5.7.88, BULGARIEN, SAKAR, GEBDRIPSCHEWO” [handwritten on whitish paper]; “*Tettigonia pfaendleri* n. sp. K. HARZ det.” [handwritten by Harz on white card]; “Holotypus” [handwritten by Harz on red card]. Specimen set with wings folded. The last tarsal segment of the left middle leg is missing. There is another ♀ with the same data labelled as paratype in the MHNG collection. It is not clear whether this name is available because the description was printed in a newsletter that may not be a valid publication under the ICZN (Ingrisch & Willemse, 2004). The name is treated as a nomen nudum on OSF. Box Harz 11b.  
*Tettigonia pfaendleri* Harz, 1991

**pfaendleri** Harz, 1970b: 56-59 [*Tridactylus*].  
Österreich, Neusiedler See. ♀ Holotype, 8 ♂ paratypes and 30 ♀ paratypes.  
The MHNG collection contains one ♂ paratype and three ♀ paratypes. The ♀ holotype and a ♂ labelled as allotype are in the NHMW, as stated in the original description, but the other paratypes meant to be present could not be identified. The specimens in the SMFD illustrated on OSF are not from a locality mentioned in the description and are thus not part of the type series despite having been labelled as such. Box Harz 46.  
*Xya pfaendleri pfaendleri* (Harz, 1970)

**pfaendleri palestinae** Harz, 1971b: 342 [*Tridactylus*].  
Palästina, Khudeira bei Haifa. ♂ Holotype, 2 ♂ paratypes and 2 ♀ paratypes.  
There is a pair of paratypes in the MHNG. The ♂ holotype is in the NHMW, as stated in the original description, accompanied by a ♀ labelled as allotype and a ♀ labelled as a paratype. Box Harz 46.  
*Xya pfaendleri palaestinae* (Harz, 1971)

**pieperi** Harz, 1979a: 106 [*Gryllomorpha*].  
Kos. ♀ Holotype.  
No specimens found in the MHNG. According to the original description the holotype, preserved in alcohol, was deposited in the collection of H. Pieper of Kiel.  
*Gryllomorpha dalmatina pieperi* Harz, 1979

**poneli** Harz & Voisin, 1987: 373-375 [*Rhacoleis*].  
Frankreich, Hyeres, Le Ceinturon. ♂ Holotype, 1 ♂ paratype and 3 ♀ paratypes.  
There are a ♂ and a ♀ paratype in the MHNG collection. According to the original description the holotype and two ♀ paratypes were deposited in the collection of Philippe Ponel, where they remain (Ponel, pers. comm.). Box Harz 28.  
*Rhacocleis poneli* Harz & Voisin, 1987

**raggei** Harz, 1970a: 194-195 [*Conocephalus*].  
Lake George, Uganda. ♂ Holotype and 36 paratypes (sex not specified for all specimens).

The MHNG collection has two ♂ paratypes and two ♀ paratypes. The holotype and the other paratypes are in the BMNH (images on OSF and type material indicated on their online database) as stated in the original description. Box Harz 10.

A junior synonym of *Conocephalus laetus* (Redtenbacher, 1891)

**rammei** Harz, 1973c: [*Odontopodisma*].  
Fiume. ♂ Holotype, 3 ♂ paratypes and 3 ♀ paratypes.  
There is one ♂ paratype in the MHNG collection. The ♂ holotype is in the NHMW, as stated in the original description, as are two paratypes. The whereabouts of the other paratypes is unknown. Box Harz 57a.  
*Odontopodisma rammei* Harz, 1973

**raymondi africanus** Harz, 1970b: 59 [*Omocestus*].  
Marokko, Atlas, Arround. ♂ Holotype, 6 ♂ paratypes and 7 ♀ paratypes.  
There are a ♂ and a ♀ placed under this name in the MHNG, both labelled as paratypes. The data labels do not correspond exactly to the information given in the original description and they are probably not part of the type series. The ♂ holotype is in the NHMW, as stated in the original description, as is a ♀ labelled as allotype and 22 other specimens marked with a disk of yellow paper which presumably include the other paratypes.  
*Omocestus africanus* Harz, 1970

**rubioi** Harz, 1973a: 244-245 [*Eumigus*].  
Mulhacen, Granada. 3 ♀ syntypes.  
A ♀ syntype with labels: “MULHACEN 3,400m (Granada) 20.7.1970 Dr. Fidel Fdez. Rubio” [printed on white card with “20.7” and “70” handwritten]; “*Eumigus rubioi* n. sp. det. K. HARZ” [handwritten by Harz on white card with “det. K. HARZ” printed]; “HOLOTYPE” [printed on red card with “HOLO” inked over]. The right antenna, both front legs, both middle legs, the tibia and tarsi of the left hind leg and two tarsal segments of the right hind leg are missing. The remaining legs have been reattached with glue. A ♀ syntype with labels: “MULHACEN 3,400m (Granada) 20.7.1970 Dr. Fidel Fdez. Rubio” [printed on white card with “20.7” and “70” handwritten]; “*Eumigus rubioi* n. sp. det. K. HARZ” [handwritten by Harz on white card with “det. K. HARZ” printed]; “HOLOTYPE” [printed on red card with “HOLO” inked over]. Both antennae, the left front leg, the tarsi of the right front leg and two tarsal segments of the right middle leg are missing. A ♀ syntype with labels: “MULHACEN 3,400m (Granada) 20.7.1970 Dr. Fidel Fdez. Rubio” [printed on white card with “20.7” and “70” handwritten]; “*Eumigus rubioi* n. sp. det. K. HARZ” [handwritten by Harz on white card with “det. K. HARZ” printed]; “HOLOTYPE” [printed on red card with “HOLO” inked over]. The left antenna, right front leg, both middle legs and left hind leg are lost. Although Harz refers to a holotype, he did not designate an

individual in the description, and as all three specimens are labelled as “Type” they must be considered syntypes. Box Harz 48.

*Eumigus rubioi* Harz, 1973

***schulmeisteri*** Harz, 1992: 11-13 [*Schulmeisteri*].

Türkei, Süvarihalil Geçidi. ♂ Holotype.

Holotype ♂ with labels: “Türkei, Süvarihalil Geçidi osts., 2400m, 14.985/16, leg. Hacker” [handwritten by Harz on white card]; “Schulmeisteri n. gen. schulmeisteri n. sp. Kurt HARZ det” [handwritten by Harz on white card with “Kurt HARZ det” printed]; “Holotypus, n. gen + n. spec. Schulmeisteri K. HARZ” [handwritten by Harz on red paper]. Both antennae, the last tarsal segment of the left front leg, the entire right front and both middle legs and the tibia and tarsi of the left hind leg are missing. The left front leg has been reattached with glue. The right hind leg, which lacks the proximal part of the femur and the tarsi, is detached and glued to a card mount secured on the original pin. The femur of the left hind leg is damaged. Dissected genitalia are glued to a second card mount also secured on the original pin. It is not clear whether this name is available because the description was printed in a newsletter that may not be a valid publication under the ICZN (Ingrisch & Willems, 2004). This species is treated as a nomen dubium by Ünal (2011) and on OSF, but this may be incorrect because it implies valid publication. Box Harz 162.

*Schulmeisteri schulmeisteri* Harz, 1992

***starcki*** Harz, 1985a: 183-185 [*Sphodromerus*].

Jordanien, Dhawi unter 51, leg. Starck. ♀ Holotype.

Holotype ♀ with labels: “No. 51, Jordanien, Dhawi Gebiet, Okt. 1983, M. Stark leg.” [handwritten by Harz on white card]; “Holotypus” [handwritten by Harz on red card]; “Sphodromus kaltenbachi [sic] n.sp. Kurt HARZ det.” [handwritten by Harz on white card with “Kurt HARZ det.” Printed]; “Type of *S. starcki*! Hollier, 2014” [handwritten on red paper]. Specimen set with right wings spread and left wings folded. The last tarsal segment of the left front and right hind leg are missing. The tips of the right wings are lost. Although the name on Harz’s identification label is different, there can be no doubt about the identity of the specimen as the holotype. Box Harz 64.

*Sphodromerus starcki* Harz, 1985

***stigmaticus faberi*** Harz, 1975d: 769 [*Stenobothrus*].

Hannover, Celle, leg. Bornhalm. ♂ Holotype and 1 ♀ paratype.

Holotype ♂ with labels: “Hannover, Celle/Wietzenbruck, 15.viii.1970, BORNHALM” [handwritten by Harz on white card]; “Holotypus” [printed on red card]; “Stenobothrus stigmaticus faberi n. ssp. det. K. HARZ” [handwritten by Harz on white card with “det. K. HARZ” printed]. Specimen set with right wings spread and left wings folded. Both antennae, the last tarsal segment of

the right middle leg and the entire right hind leg are lost. The MHNG collection has 17 other specimens labelled as paratypes but these are not mentioned in the original description and cannot be considered part of the type series. The specimens in SMFD labelled as paratypes and illustrated on OSF are likewise not referred to in the original description and are not part of the type series. Box Harz 115a.

*Stenobothrus stigmaticus faberi* Harz, 1975

†***strausi*** Harz, 1973a: 245 [*Calliptamus*].

Willershausen. One specimen.

No specimens found in the MHNG. According to the original description the holotype (specimen no. 20690) was deposited in the Georg-August-Universität in Göttingen.

† *Calliptamus strausi* Harz, 1973

***syriaca*** Harz, 1979a: 103-106 [*Gryllomorpha*].

Syrien, 64km östlich von Homs. ♂ Holotype, 5 ♂ paratypes, 10 ♀ paratypes and 1 immature paratype.

Holotype ♂ with labels: “Syrien, Homs-Palmyra 64km E Homs, 12.3.1977, No. 21 Nahustexk. R: KINZELBCH et al” [handwritten by Harz on white card]; “Gryllomorpha syriaca sp. n. det Kurt HARZ 1979” [handwritten by Harz on white card with “det Kurt HARZ 1979” printed]; “Holotypus” [handwritten by Harz on red card]. The tarsi of the left front leg, the last tarsal segment of the left hind leg and two tarsal segments of the right hind leg are missing. There are two ♂ and three ♀ specimens with the same data and labelled as allotype and paratypes in the MHNG dry collection. Gorochov (2009) considered that a damaged ♀ labelled as a paratype probably belongs to a different species. The remaining paratypes are in alcohol. Box Harz 40 & alcohol collection.

*Gryllomorpha syriaca* Harz, 1979

***szijji*** Harz, 1982a: 229-230 [*Chorthippus*].

Marokko, Timehdit. ♂ Holotype, 2 ♂ paratypes and 2 ♀ paratypes.

There are a ♂ paratype and a ♀ paratype in the MHNG. According to the original description the holotype and two paratypes were deposited in the collection of the late Josef Szijj who had collected them. Box Harz 157b.

*Chorthippus szijji* Harz, 1982

***tsirojanni*** Harz & Pfau, 1983: 33-35 [*Metrioptera*].

Griechenland, Olympos-Gebirge, Ag. Dimitrios. ♂ Holotype and 1 ♀ paratype.

No specimens found in the MHNG. According to the original description the type specimens were deposited in the collection of H. K. Pfau, who had collected them.

*Metrioptera tsirojanni* Harz & Pfau, 1983

***tucherti*** Harz, 1988b: 133-135 [*Eupholidoptera*].

Türkei, Dalyan, Muhgla, Strand bei Iztuzu. ♂ Holotype and 1 ♂ paratype.

Although the original description states that the type specimens were deposited in Harz's collection no specimens could be found in the MHNG. The whereabouts of the type specimens is unknown.

*Eupholidoptera tucherti* Harz, 1988

**tuerki orientalis** Harz, 1979c: 128 [*Tetrix*].

Tadshikistan, 16km östlich von Isfara. ♂ Holotype, 1 ♂ paratype and 1 immature paratype.

Holotype ♂ with labels: "Tadshikistan, 16km E Isfara, 1050m, 10.5.1979 W. H. MUCHE" [handwritten by Harz on white card]; "HOLOTYPUS" [printed on red card]; "Tetrix tuerki orientalis sub sp. n. K. HARZ det." [handwritten by Harz on white card]. Specimen set with wings folded. The right antenna is missing. There are two specimens with the same data labelled as paratypes in the MHNG. Box Harz 45a.

*Tetrix tuerki orientalis* Harz, 1979

**vicheti** Harz, 1971b : 340-342 [*Tridactylus*].

Angola, Cazombo. ♂ Holotype and 1 ♂ paratype.

There is a ♂ paratype in the MHNG. According to the original description the holotype was deposited in the MNHN. Box Harz 46.

*Xya vicheti* (Harz, 1971)

**waltheri** Harz, 1973b: 345 [*Epipodisma*].

Frankreich, Turge de la Suffie. ♂ Holotype, 5 ♂ paratypes and 4 ♀ paratypes.

Holotype ♂ with labels: "viii.1966 Turge de la Suffie, ca. 2500m Obb.leg. Walther" [handwritten on white card with "Obb.leg. Walther" printed]; "Epipodisma waltheri n. sp. det. K. HARZ" [handwritten by Harz on white card]; "Holotypus" [handwritten by Harz on red card]. Most of the right antenna is missing. There is a micro-tube with dissected parts secured through the stopper on the original pin. A further three ♂ and two ♀ with the same data and labelled as allotype and paratypes are present. According to the original description two ♂ and two ♀ paratypes were deposited in the collection of C. Walther; these specimens are now in the SMFD (images on OSF). Box Harz 55.

*Epipodisma pedemontana waltheri* Harz, 1973

**waltheri** Harz, 1966c: 81-83 [*Platycleis*].

Mornas bei Orange, Vaucluse, Frankreich. ♂ Holotype and 1 ♀ paratype.

Holotype ♂ with labels: "28.8.62, Mornas bei Orange Fr. Obb.leg. Walther" [handwritten on white card with "Obb. leg. Walther" printed]; "Holotypus" [handwritten by Harz on red card]; "Platycleis waltheri Harz ♂" [handwritten by Harz on white card]. Specimen set with wings folded. Most of the right antenna, the last tarsal segment of the right front leg and the last tarsal segment of both hind legs are missing. Dissected genitalia are glued to a card mount secured on the original pin. The ♀ paratype is also in the MHNG collection. Images on OSF. Box Harz 17.

*Platycleis waltheri* Harz, 1966

**willemsei** Harz, 1971a: 335 [*Chorthippus*].

Griechenland, Kalavrita Chelmos. ♂ Holotype and 152 paratypes.

There are 16 specimens labelled as paratypes in the MHNG. According to the original description two paratypes were deposited in the BMNH and the rest of the type specimens were deposited in the collection of F. Willemse, which is now in the RMNH. Boxes Harz 121 and Nadig 812.

*Chorthippus willemsei* Harz, 1971

### Other Names

The Harz collection contains several other specimens labelled as types, but these names do not appear to have been published and are therefore unavailable. As noted by Heller (1998), the names *Chorthippus longicornis geriberti* Harz, 1962 and *Platycleis escalerae graeca* Harz, 1966a are unavailable because they were explicitly described as forms and not as subspecies.

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